TEXAS STATE VITA

I. Academic/Professional Background

A. Kristy Lynn Daniel (née Halverson) **Title: Full Professor**
254 Supple Science Building
601 University Dr.
San Marcos, TX 78666
P: 512-245-7208
Email: kristydaniel@txstate.edu

B. Educational Background

Degree	*Year*	*University*	*Major*
Ph.D.	2009	University of Missouri	Curriculum and Instruction – Science Education

Dissertation: *Investigating the Development and Use of Representations by Undergraduates in a Plant Systematics Course* (Co-Chairs: Drs. Sandra Abell & Patricia Friedrichsen)

M.S.	2005	Iowa State University	Ecology, Evolution, and Organismal Biology

Thesis: *Intraspecific Plant Polyploidy Effects on Goldenrod Insect Herbivores* (Chair: Dr. John Nason)

B.A.	2002	Westminster College	Biology

C. University Experience

** Institutions Abbreviated: Texas State University (TXST); University of Southern Mississippi (USM); University of Missouri (MU); Iowa State University (ISU); Westminster College (WCMO)*

Position	*University*	*Dates*
Full Professor, Biology	TXST	2023-Present
Associate Professor, Biology	TXST	2018-2023
Assistant Professor, Biology	TXST	2015-2018
Assistant Professor, Biological Sciences	USM	2009-2015
**Recommended for Tenure and Promotion effective August 17, 2015*		
Research Investigator	MU	2007-2009
Improving Phylogenetic Thinking in Biology Undergraduates. Supervisors: Dr. Sandra Abell, Dr. Patricia Friedrichsen, and Dr. J. Chris Pires		
Graduate Teaching Assistant	MU	2007-2009
Graduate Instructor	MU	2006-2007
Adjunct Instructor	WCMO	2006
Adjunct Instructor	MU	2006
Graduate Research Assistant	MU	2005-2009
2007-2009: Decision Making about Biotechnology Issues. Supervisor: Dr. Marcelle Siegel		
2007-2008: Equitable Assessment for English Learners. Supervisor: Dr. Marcelle Siegel		
2005-2007: Supporting Career Changers. Supervisors: Susan White and Dr. Sandra Abell		
2005-2006: Evaluation of Professional Development Projects. Supervisor: Dr. Sandra Abell		
Biological Science Tutor	MU	2005-2007
Biology Lab Coordinator Assistant	ISU	2005
Research Investigator	ISU	2003-2005
Plant Polyploid Effects on Goldenrod Insect Herbivores. Supervisor: Dr. John Nason		
Graduate Instructor	ISU	2003-2005

Undergraduate Instructor	WCMO	1998-2001

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Contributor-BIO Concepts Course	Wiley Publishing	2014
Naturalist	MO Dept. of Natural Resources	2001
Substitute Teacher	Fulton School District	2000-2003
Field Botanist	MO Dept. of Conservation	2000

E. Other Professional Credentials

2025	GradMENTOR/CIMER training
2022-Current	Certified Interpretive Guide Trainer, National Association for Interpretation (expires 3/7/2030)
2022	Leave No Trace Awareness Certification, Field Studies Ireland
2021-Current	Certified Interpretive Guide, National Association for Interpretation
2020	Office of Distance and Extended Learning - Teaching Online at Texas State
2017-Current	Master Naturalist, Hays County Chapter
2017-Current	TXST Service-Learning Fellow
2010-Current	CITI Completion Certificate (expires 7/22/2027)
2016	Survival Sign Language
2015	LGBTIQ Allies Training
2015	Developing Assessment Methods & Measures
2013	Scientific Teaching
2011	National Science Foundation, Science: Becoming the Messenger
2011	Quality Enhancement Program Writing and Speaking Pedagogy
2011	USM, Faculty Fellow Service-Learning
2009	College Teaching Certificate
2009	Connecting Undergraduates to the Enterprise of Science

II. TEACHING

A. Teaching Honors and Awards:

Texas State University Teaching Service-Learning Excellence Award (2025). This award recognizes and rewards superior accomplishments in sustained service-learning teaching excellence over at least three years, leading to internal and external recognition of significant and impactful endeavors.

Presidential Distinction Award for Excellence in Teaching (2023). This award is given to a TXST faculty member nominated at the college-level for the Presidential Teaching Award in recognition of their superior accomplishments in teaching, to provide models of excellence for fellow faculty, and to encourage all faculty to continue to perform, improve, and advance their teaching, scholarly and creative activity, and service.

Teaching Award of Honor. (2020). This prestigious award from the TXST Alumni Association recognizes, encourages, and rewards superior Texas State classroom teachers, including professors, lecturers, associate professors, assistant professors, and instructors. This year, the award was given in recognition of exemplary service during the COVID-19 crisis in Spring 2020. TXST.

Alpha Chi Favorite Professor. (2018). This is a student-nominated honor for faculty, TXST.

The Flinn Scientific Award for Improving Science Education. (2017). This national award is given to a faculty member that Flinn Scientific recognizes as making exemplary progress in enhancing student learning in science and STEM.

Excellence in University Teaching. (2015). Each year the university awards this honor to one USM faculty member each year with a record of exceptional teaching.

Honorary Guest Coach. (Basketball, December 2014; Football, October 2014). This is a student-nominated honor for faculty, USM.

Robert Frank Fellowship. (AY 2007-2008). Each year MU's College of Education awards one MU graduate student with an exemplary academic and research record an annual scholarship to support future research endeavors.

John Carlock Award. (October 2006; October 2007). Each year, the Association of College and University Biology Educators organization selects an outstanding graduate student who shows high potential for success in career instructing college biology.

Teaching Excellence Award. (2005). Each year ISU annually recognizes the top 10% of graduate instructors on campus, based upon student evaluations and peer observation.

B. <u>Courses Taught:</u>

TXST - BIO 1421: Modern Biology II; BIO 3406: Economic Botany (*emergency replacement instructor*); BIO 4317/5317: Biology Interpretation Programming and Design; BIO 4319: Biological Resources: Conservation and Planning; BIO 4350T/5340T/4328/5328: Field Biology of Ireland; BIO 4350X/4327/5327: Issues in Irish Biodiversity and Conservation; BIO 4400/5400: Plants Important to Wildlife; BIO 5100/7100: Professional Development (Surviving Instructional Assistantships in Biology; Graduate Student Networking); BIO BIO 5399: Thesis; BIO 7102: Seminar in Aquatic Resources (Science and Society; Scientific Writing; Research Essentials; Science in Media; Nature Journaling); BIO 7114/7214/7314: Research Experience; BIO 7303: Research; BIO 7310: Global Aquatic Resources; BIO 7360X/7300: Communicating Science; BIO 7360Z/7301: College Science Teaching; BIO 7361A: Discipline-Based Educational Research Methods; HON 2303D: Everyday Biology

USM - BSC 103: Biology and Society; BSC 111: Principles of Biology II; BSC 423/523: Science and Society; BSC 497: Senior Capstone in Biological Sciences; BSC 492: Special Problems (Senior Honor's Thesis); BSC 404/LCA & 504/LCA: Ireland Biology Field Experience; BSC 600: Professional Development for Biology Teaching Assistants; BSC 691: Research; BSC 692: Special Problems (Learning and Teaching with Visualizations in Biology Education); BSC 698: Thesis; BSC 791: Research in Biology; BSC 792: Special Problems (Learning to Lecture; Grant Writing); BSC 898: Dissertation; SME 601: Science, Mathematics, and Technology Education in Contemporary Perspective; SME 691: Research Practicum in Science and Mathematics Education; SME 703: Foundations of Science and Mathematics Education; SME 761: Qualitative Educational Research Design; SME 762: Qualitative Educational Research Practicum; SME 789: Seminar in Science and Mathematics Education; SME 791: Research in Science Education; SME 792: Special Problems (Human Learning; Learning and

Teaching with Visualizations in Biology Education; Visualizations in Biochemistry); SME 797: Independent Study; SME 898: Dissertation

MU - BIO SC 1010: General Principles and Concepts of Biology; BIO SC 1500: General Biology Lab; BIO SC 3100: Community Biology; BIO SC 3210: Plant Systematics Lab

ISU - BIO 201L: Principles of Biology I Lab; BIO 202L: Principles of Biology II Lab

WCMO - BIO 107: Introduction to Biological Principles Lab; BIO 110: Biodiversity; BIO 110L: Biodiversity Lab; BIO 220: Evolution; ENV 105: Introduction to Environmental Science; WSM 101: Westminster Seminar: Human Evolution

C. <u>Graduate Theses/Dissertations, Honors Theses, or Exit Committees:</u>

(** indicates K.L. Daniel – major professor*)

Student Name, School	*Year*	*Degree*
*Tiara Thompson, TXST	In progress	Ph.D. Aquatic Resources & Integrative Biology

*Mallika Saha, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology
An Investigation of Undergraduate Students' Cognitive Understanding in Interpreting Biological Representations Using Eye Movement

*Carolyn Jess, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology
Shifting Environmental Community Behaviors Through the Use of an Education Intervention

Danielle Gay, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology
Increasing Wildlife Career Preparedness by Investigating Bat Activity in an Urbanized Community Through Acoustics

*Jill Zipperer, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology
Bridging the Gap between Science and the Community through Service-Learning and Third Spaces
Project Funded in part by a TXST Run2R1 Award

Lance English, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology

Jennifer Berry, TXST — In progress — M.S. Wildlife Ecology
SARS-CoV-2 in Wildlife: Unforeseen Implications and Complexities

*Ryan Spencer, TXST — In progress — Ph.D. Aquatic Resources & Integrative Biology
Impacts of Place-Based Pedagogy and Environmental Mindfulness at an Informal Science Institution
Project Funded in part by a TXST Meadows Center Research Incentive Award - Spring 2023 ($1500)

Chrissy White, TXST — In progress — M.S. Geography
Locating sites with the potential to contain bog mummies

Amandeep Kaur, TXST — 2025 Dec — M.S. Biology
Exploring the Effectiveness of Course-Based Undergraduate Research Experiences (CUREs) on Pre-service Elementary Education Teachers (PSETs)

*Kristi Becker, TXST 2025 Aug M.S. Biology
Examining Motivation and Retention Factors Among Texas Master Naturalist Volunteers in Science-Based Projects

Drew Berdo, TXST 2025 May M.S. Wildlife Ecology
A Landscape-Scale Assessment of the Potential Impact of Wind Turbines on Grassland Birds

*Ale Roman, TXST 2024 Dec B.S. Art
Echoes of Tomorrow: *Art and Science Converge in Central Texas*
Project Funded in part by a TXST Honor's College Research Award - Fall 2024 ($1000) and IDEA Center funding ($500).

*Mallika Saha, TXST 2024 Aug M.S. Biology
A Study of Undergraduate Students' Interpretations of Tree-Thinking Using Eye Movements

*Carolyn Jess, TXST 2024 Aug M.S. Biology
Exploring Outcomes from Participating in Outdoor Science Activities

*Hannah Baratang, TXST 2024 May M.S. Biology
Drawing as a Generative Learning Activity: A Case Study on a Nature Journaling Course

Hamza Malik, UMassD 2024 May Ph.D. STEM Education
Research Question: What are the Roles of Educators from an Environmental Education Center in the Context of In-School and Out-of-School Settings?

Jared Messick, TXST 2023 Aug Ph.D. Aquatic Resources & Integrative Biology
Investigating Determinants of Collaboration Between Landowners and Wildlife Agencies for Endangered Species Conservation

Brooke Laycock, TXST 2023 Aug M.S. Wildlife Ecology
Investigating the role of contemplative and steering approaches to mitigate recreational disturbance to waterbirds

*Miranda Wait, TXST 2023 Aug M.S. Wildlife Biology
Connecting Interest in and Awareness of the Environment with an Informal Experience

*Rachel Seets (née Lincoln), TXST 2022 Aug M.S. Biology
An examination of best practices and impact of an outdoor science inquiry with elementary students
Project Funded in part by the TXST Thesis Research Support Fellowship - Fall 2021 Award ($1907)

*Jenn Idema, TXST 2021 Aug Ph.D. Aquatic Resources & Integrative Biology
Exploring the Impacts of Socioscientific Environmental Issues Through Aquarium Exhibits
****Celebrity Classic Scholar, 2018 Outstanding Instructional Assistant Award in Biology, 2019-2020 Outstanding Graduate Student at the doctoral level in the College of Science and Engineering, Project Funded in part by the TXST Doctoral Research Support Fellowship - Spring 2020 Award ($5000)***

*Myra McConnell, TXST 2021 Aug M.S. Biology

An In-depth Investigation into a Faculty's Development of an Active-Learning Course
Project Funded in part by the TXST Thesis Research Support Fellowship - Fall 2020 ($1890)

Libby Pratt, TXST 2021 May M.S. Wildlife Ecology
Analysis of Drivers of Spring Alligator Hunting in Texas and Policy Implications

*Victoria Reyes, TXST 2020 Dec B.S. Biology (Honor's Thesis)
Family Interpretation of Conservation Messaging in an Aquarium
SURE Fellow Summer 2019, Project Funded in part by the Tri Beta Research Conference

*Bria Marty, TXST 2020 Aug M.S. Biology
Assessing Public Perceptions of Spiders and Identifying Trends in Community Science Participation
Project Funded in part by the TXST Thesis Research Support Fellowship - Spring 2020 ($1250)

Jared Messick, TXST 2020 Aug M.S. Wildlife Ecology
Determinants of Endangered Species Stewardship by Private Landowners

*Zach Nolen, TXST 2019 Aug Ph.D. Aquatic Resources & Integrative Biology
A Consideration into Ways Biology-Based Student Organizations Facilitate Participation in STEM
Project Funded in part by the TXST Doctoral Research Support Fellowship - Fall 2017 Award ($5000)

Jacqueline Samuel, USM 2019 Aug Ph.D. Science and Mathematics Education
Developing a Theoretical Framework for Visualization-Based Pedagogical Content Knowledge (V-PCK) Based on Middle School Teachers' Views and Uses of Visualizations as an Instructional Tool

*Antonia MacCrossan, TXST 2019 May B.S. Biology (Honor's Thesis)
Student Hormonal Responses in Two Learning Environments

*Austin Wilkes, OK State U 2019 May B.S. Integrative Biology (Honor's Thesis – co-advisor)
The Relationship between Religiosity and Acceptance of Evolutionary Theory among Students in an Introductory Zoology Course

Izaak DeLeon, TXST 2018 Dec M.S. Biology
Exploring Latino Parent Attitudes Toward Science, Involvement in Science, and Perceptions of Value and Comfort of Family Science Events

*Sara Salisbury, TXST 2018 Aug M.S. Biology
An Investigation of Preservice Teachers' Engagement and Perceptions of Science Learning in Outdoor Learning Environments

*Leah Cuddeback, TXST 2018 May B.S. Biology (Honor's Thesis – co-advisor)
Lions and Tigers and Teens: Exploring Volunteer Influences at the Saint Louis Zoo

*E. Austin Leone, TXST 2017 May M.S. Biology
An Investigation of Relationships between Student Acceptance of Evolution, Tree-Thinking, and Eye Movement among Different Instructional Interventions

*Jeremy Norris, USM 2016 May B.S. Biology (Honor's Thesis – Co-Advisor)
Validity and Reliability Evaluation of an Instrument Measuring Plant Blindness

*Jennifer Mraz, USM 2015 Dec Ph.D. Biological Sciences
Identities and Motives of Naturalist Development Program Attendees and their Relation to Professional Careers

*Chandrani Mishra, USM 2015 Dec Ph.D. Biological Sciences
Investigating the Impact of Reflexive Practices on College Students in a Science Laboratory Course

*Aubin St. Clair, USM 2015 Aug M.S. Biological Sciences
Naturalists' Perspectives on the Use of Mobile Technology during a Nature Hike

*Carrie Jo Boyce, USM 2015 Aug Ph.D. Biological Sciences
Investigating How Students Communicate Tree-Thinking

Mounir Saleh, USM 2015 May Ph.D. Science and Mathematics Education
Moving College Students to a Better Understanding of Substrate Specificity of Enzymes through Utilizing Multimedia Pre-Training and an Interactive Enzyme Model

*Ashleigh Davis, USM 2014 May B.S. Psychology (Honor's Thesis)
A Look into Informal Science Education and Students with Individual Education Plans

*Donaven McLaurin, USM 2013 May B.S. Biological Sciences (Honor's Thesis)
Using Manipulative Models to Develop Tree-Thinking
McNair Scholar

*Jill Maroo, USM 2013 May Ph.D. Science and Mathematics Education
Nursing Students' Attitudes toward Science in the Nursing Curricula

Angela Bruni, USM 2013 May Ph.D. Science and Mathematics Education
Dialogue as a Tool for Meaning Making

John Parr, USM 2013 May Ph.D. Science and Mathematics Education
View of Socioscientific Issues among Educators: The Willingness of Teachers to Accept SSI into the Classroom and the Reasoning Underlying those Beliefs

J. Lynn Singletary, USM 2013 May Ph.D. Science and Mathematics Education
The Role of Service-Learning in College Students' Environmental Literacy: Content Knowledge, Attitudes, and Behaviors

Vivian Smith, USM 2013 May Ph.D. Science and Mathematics Education
Science Fair: Is it Worth the Work? A Qualitative Study on Deaf Students' Perceptions and Experiences Regarding Science Fair in Primary and Secondary School

Postdoctoral Researchers
Dr. Meena Kharatmal, 2024-2025
Dr. Tina Marcroft, 2024-2025
Dr. Daniel Ferguson, 2022-2024

Visiting Scholars
Sokha Kheam, Fulbright Professor U.S.-ASEAN Visiting Scholars Initiative, Cambodia, 2016
Inga Ubben, Ph.D. Student, Humboldt Universität zu Berlin, Germany, 2015

Masters – Non-Thesis

*Cassidy Regan, TXST	2025 Dec	M.S. Biology
Project: *Discovering the Benefits of Providing Informal Science Education to Both Adult Facilitators and Children*		
Jessi Bocanegra, TXST	2024 Dec	M.S. Biology
*Brady Pringle, TXST	2023 Dec	M.S. Biology
Project: *Research Rangers: Nature Invaders*		
Amanda Martinez	2023 Dec	M.S. Sustainable Studies
Project: *Lessons From and For Bird City Texas: A Comparative Analysis, Action Plan, and Bird-Friendly Garden Project*		
Meraj Fallah Abed	2023 May	M.S. Biology
Sharon Savage, TXST	2021 May	M.S. Sustainable Studies
Project: *Divergent: Dialogues with Artists about Earth*		
*Travis Acosta, TXST	2018 May	M.S. Biology
Brody Hutchinson, USM	2015 Dec	M.S. Science and Mathematics Education
Valerie Cook, USM	2015 May	M.S. Science and Mathematics Education
Kylee Dueitt, USM	2014 May	M.S. Science and Mathematics Education
Mark Holcomb, USM	2012 Aug	M.S. Science and Mathematics Education
*Jennifer Lawrence, USM	2012 May	M.S. Science and Mathematics Education
*Carrie Jo Boyce, USM	2010 Dec	M.S. Science and Mathematics Education

Other Students
Supervisor, Undergraduate Students (Non-Thesis Research):
Allison Dudley, TXST; Briana Bolanos, TXST; Omar Kahn, TXST; Lou Ruiz, TXST; Kyle Tucker, TXST; Trever Piland, TXST; Lauren Morales, TXST; Kim Lumsden, TXST; Maggie Pappano, TXST; Raylee Schobel, TXST; Zachary Mejia, TXST; Michelle Nguyen, TXST; Lyric Pullman, TXST; Jackie Baez, TXST; Dominique Ocampo, TXST (SURE program); Arianna Corral, TXST; Ryan Ament, TXST; Victoria Reyes, TXST (SURE program); Kaitlin Villarreal, TXST; Sierra Roman Hicks, TXST; Brittney Covington, TXST; Gabrielle Payne, TXST; Karen Alvarado Rodriguez, TXST; Sandra Bohn, USM; Izaak DeLeon, TXST; Antonia MacCrossan, TXST; Megan Pallo, MU; Lauren Pittman, USM; Matthew Planchard, USM; Karina Salinas, TXST; Katherine Stefanik, TXST
Mentor, Graduate Student Research (Non-Thesis Research):
Fahad Alam, TXST; Caitlin Campbell, TXST; Rebecca Cavalier, TXST; Laila Ali, USM; Houbin Fang, USM; Soo Ha, Purdue University; Suzanne Jennings, USM; Sara Johnson, USM; Xiaolan Li, USM; Camillia Matuk, Northwestern University; Kathryn Parsley, TXST; Nasser Syed, USM; Lance Vikaros, Columbia University; Emily Walter, MU; Aresia Watson, USM; Stephanie Williams, USM

D. <u>Courses Prepared and Curriculum Development:</u>
BIO 4317/5317: Interpretive Biology Programming and Design
Faculty-Led Education Abroad Program (TXST) – Biology in Ireland
BIO 4350T/5350T/4328/5328 (TXST): Ireland Biology Field Experience – *Education Abroad*

BIO 4350X/5350X/4327/5327 (TXST): Issues in Irish Biodiversity and Conservation – *Education Abroad*
BIO 4350Z/5350Z (TXST): Diversity and Cultural Impact of Geoparks
BIO 4400/5400 (TXST): Plants Important to Wildlife
BIO 7361A (TXST): Discipline-Based Educational Research Methods
BIO 7360Z/7301 (TXST): College Science Teaching
BIO 7360X/7300 (TXST): Communicating Science
BSC 404/504/L (USM): Ireland Biology Field Experience – *Education Abroad*
HON 2303D (TXST): Everyday Biology
SME 761 & 762 (USM): Qualitative Educational Research Design and Practicum Series
Special Topics Developed (USM): Human Learning, Learning to Lecture, Learning and Teaching with Visualizations in Biology, Visualizations in Biochemistry, and Grant Writing

E. Funded External Teaching Grants and Contracts:

Howard Hughes Medical Institute. (2014). *SEA-PHAGES Associate Membership 2015-2016.* Primary Faculty Contact: Maldovi, D.; Alternate Faculty Contact: Sellers, J.M. Originally accepted in 2013 by Faculty Contacts: McLean, T. & **Halverson, K.L.**, Deferred to 2014 (for AY 2015-2016).

F. Submitted, but Not Funded, External Teaching Grants & Contracts

N/A

G. Funded, Internal Teaching Grants & Contracts *($3500.00 Funded)*

Texas State Service-Learning Mini Grant Award. (2023-2024). *Issues in Irish Biodiversity and Conservation.* PI: **Daniel, K.L.** (TXST **$500 Total**).

Texas State University New Study Abroad Program Development Grant. (AY 2016-2017). *Biology in Ireland.* PI: **Daniel, K.L.** (TXST **$2200 Total**).

Texas State University Program for Excellence in Teaching and Learning. (2016). *Professional Development Travel Award.* Recipient: **Daniel, K.L.** (TXST **$800 Total**).

H. Submitted, but Not Funded, Internal Teaching Grants & Contracts

N/A

III. SCHOLARLY/CREATIVE

**All works authored by "Daniel" are credited to TXST, works by "Halverson" are credited to other institutions.*

A. Works in Print

1. Books

a. Scholarly Monographs

N/A

b. Textbooks

N/A

c. Edited Books:

Daniel, K.L. (Ed.) (2018). *Towards a Framework for Representational Competence in Science Education.* Dordrecht, The Netherlands: Springer. https://content.e-bookshelf.de/media/reading/L-11263286-54cfce0ec2.pdf

d. Chapters in Books:

9. Idema, J.L. & **Daniel, K.L.** (2023). Socioscientific issues and the potential for fostering engagement through exhibits. In Patrick, P. (Ed.) *Applying Learning Theories (Theoretical Frameworks) in Science Research Outside the Classroom: How People Learn Science in Informal Environments* (Chapter 19). Dordrecht, The Netherlands: Springer. (pp. 271-297). https://link.springer.com/chapter/10.1007/978-3-031-13291-9_14

8. **Daniel, K.L**. & Luxford, C. (2023). Building your personal pitch using a message framework. In S. Rowland and L. Kuchel (Eds.). *Teaching Science Students to Communicate: A Practical Guide* (Chapter 55). Dordrecht, The Netherlands: Springer Nature. (pp. 507-512). https://discovered.ed.ac.uk/permalink/44UOE_INST/19s2m21/cdi_springer_books_10_1007_978_3_030_91628_2_63

7. Leone, A.E., **Daniel, K.L.,** French, D., Clough, M. (2023). Statements of Critical Significance (SOCS) for communicating succinctly. In S. Rowland and L. Kuchel (Eds.). *Teaching Science Students to Communicate: A Practical Guide* (Chapter 11). Dordrecht, The Netherlands: Springer Nature. (pp. 175-180). https://discovered.ed.ac.uk/permalink/44UOE_INST/19s2m21/cdi_springer_books_10_1007_978_3_030_91628_2_20

6. Ubben, I., Salisbury, S., & **Daniel, K.L.** (2019). Combining visual and verbal data to diagnose and assess model competence. In A. Upmeier zu Belzen, D. Krüger and J. van Driel (Eds.). *Towards a Competence-based View on Models and Modeling in Science Education* (Chapter 6). Dordrecht, The Netherlands: Springer. (pp. 99-115). https://link.springer.com/chapter/10.1007/978-3-030-30255-9_6

5. **Daniel, K.L.**, Bucklin, C.J., Leone, E.A., & Idema, J.L. (2018). Towards a definition of representational competence. In **K.L. Daniel** (Ed.) *Towards a Framework for Representational Competence in Science Education* (Chapter 1). Dordrecht, The Netherlands: Springer (pp. 3-11). https://link.springer.com/chapter/10.1007/978-3-319-89945-9_1

4. Mishra, C., Clase, K.L., Bucklin, C.J., & **Daniel, K.L.** (2018). Improving students' representational competence through a course-based undergraduate research experience. In **K.L. Daniel** (Ed.) *Towards a Framework for Representational Competence in Science Education* (Chapter 9). Dordrecht, The Netherlands: Springer (pp. 177-201). https://link.springer.com/chapter/10.1007/978-3-319-89945-9_9

3. Saleh, M.R. & **Daniel, K.L.** (2018). Leveraging on Assessment of Representational Competence to Improve Instruction with External Representations. In **K.L. Daniel** (Ed.) *Towards a Framework for Representational Competence in Science Education* (Chapter 8). Dordrecht, The Netherlands: Springer (pp. 155-176). https://link.springer.com/chapter/10.1007/978-3-319-89945-9_8

2. Ubben, I., Nitz, S., **Daniel, K.L.**, & Upmeier zu Belzen, A. (2018). Assessing Representational Competence with Eye Tracking Technology. In **K.L. Daniel** (Ed.) *Towards a Framework for Representational Competence in Science Education* (Chapter

11). Dordrecht, The Netherlands: Springer (pp. 229-245). https://link.springer.com/chapter/10.1007/978-3-319-89945-9_11

1. **Halverson, K.L.** & Friedrichsen, P.M. (2013). Learning tree thinking: Developing a new framework of representational competence. In D.F. Treagust and C.-Y. Tsui (Eds.) *Multiple representations in biology education* (Chapter 10). Dordrecht, The Netherlands: Springer. (pp. 185-202). https://link.springer.com/chapter/10.1007/978-94-007-4192-8_11

2. Articles

a. Refereed Journal Articles:

41. Messick, J.A, Serenari, C., Idema, J.L., & **Daniel, K.L.** (2025). Testing an in-person segmentation approach to enhance conservation partnerships between agencies and private landowners. *Journal of Extension, 63*(3). Article 14. https://open.clemson.edu/joe/vol63/iss3/14

40. Ferguson, D., Campbell, C., Nolen, Z., & **Daniel, K.L.** (2025). Considering and measuring student perceptions on the role of using social media as an educational tool in science courses. *Computers and Education Open. 8,* 1-7. https://doi.org/10.1016/j.caeo.2025.100250

39. Thomas, A., St. Clair, A., Bucklin. C.J., Zipperer, J., & **Daniel, K.L.** (2024). Naturalists' technology use supports nature education. *Journal of Interpretation Research, 29*(2). https://doi.org/10.1177/10925872241292599

38. **Daniel, K.L.**, Ferguson, D., Leone, E.A., & Bucklin, C.J. (2024). A comparison of measured outcomes across tree-thinking interventions. *The American Biology Teacher, 86(2),*71-77. https://doi.org/10.1525/abt.2024.86.2.71

37. **Daniel, K.L.,** Ament, R., McConnell, M., Marty, B., & Idema, J. (2023). Using 3MT storytelling approaches to improve science communication. *Bioscene, 49,* 26-38. https://www.acube.org/bioscene/2023_1.pdf

36. Serenari, C., Pratt, E.N., Meeks, A., Rubino, E.C., & **Daniel, K.L.** (2023). Potential for policy conflict among alligator hunters in Texas, USA. *Human-Wildlife Interactions, 16*(3). Article 7. https://doi.org/10.26077/489d-3272

35. Marty, B., **Daniel, K.L.**, & Forsythe, M. (2023). Bee time. *Science & Children, 60(6),* 30-35. https://www.nsta.org/science-and-children/science-and-children-julyaugust-2023/bee-time

34. **Daniel, K.L.**, McConnell, M., Schuchardt, A., & Peffer, M.E. (2022). Challenges facing interdisciplinary researchers: Findings from a professional development workshop. *PLOS ONE. 17(4),* e0268234. https://doi.org/10.1371/journal.pone.0267234

33. Jenkins, K.P., Mead, L., Baum, D.A., **Daniel, K.L.**, Bucklin, C.J., Leone, E.A., Gibson, J.P., & Naegle, E. (2022). Developing the BETTSI: A tree-thinking diagnostic tool to assess individual elements of representational competence. *Evolution, 76(4),* 708-721. https://doi.org/10.1111/evo.14458

32. **Daniel, K.L.** (2022). Interpreting the Pseudocot Phylogeny. *QUBES Educational Resources.* doi:10.25334/E2AB-YG50

31. Messick, J.A., Serenari, C., **Daniel, K.L.,** Idema, J., & Lute, M. (2022). Determinants influencing recruitment in the Houston Toad programmatic safe harbor agreement. *Human Dimensions of Wildlife, 27(5),* 472-488. https://doi.org/10.1080/10871209.2021.1959961

30. Jenkins, K., Mead, L., Baum, D., **Daniel, K.L.**, Bucklin, C.J., Leone, E.A., Gibson, J.P. & Naegle, E. (2021). BETTSI - Basic Evolutionary Tree-Thinking Skills Instrument. *QUBES Educational Resources.* doi:10.25334/ZQY1-W289

29. Nolen, Z.L., **Daniel, K.L.,** & Bucklin, C.J. (2021). Perceived benefits from participating in content-based student organizations. *Journal of Student Affairs Research and Practice,* 58(4), 417-429. https://doi.org/10.1080/19496591.2020.1796689

28. **Daniel, K.L.** (2020). Recognizing personal challenges to emerge as a stronger teacher. *The American Biology Teacher, 82(4),* 197. https://doi.org/10.1525/abt.2020.82.4.197

27. Ashford-Hanserd, S., **Daniel, K.L.**, García, D.M., & Idema, J.L. (2020). Factors that influence persistence of biology majors at a Hispanic Serving Institution. *Journal of Research in Technical Careers, 4,* 47-60. https://doi.org/10.9741/2578-2118.1048

26. Leone, E.A., Salisbury, S.L., Nolen, Z.L., Idema, J.L., Parsley, K.M., Stefanik, K.L., & **Daniel, K.L.** (2019). Identifying the breakdowns in how students and faculty interpret course learning objectives. *Bioscene: Journal of College Biology Teaching, 45,* 16-23. https://files.eric.ed.gov/fulltext/EJ1223956.pdf

25. Cuddeback, L.M., Idema, J.L., & **Daniel, K.L.** (2019). Lions, tigers, and teens: Promoting interest in science as a career path through teen volunteering. *International Zoo Educators Journal, 55.* 29-32. https://www.researchgate.net/publication/337167857_Lions_tigers_and_teens_Promoting_interest_in_science_as_a_career_path_through_teen_volunteering

24. Mraz, J.A., **Daniel, K.L.**, Bucklin, C.J., Mishra, C., Ali, L., & Clase, K.L. (2018). Student identities in authentic course-based undergraduate research experience. *Journal of College Science Teaching, 48,* 68-75. https://www.jstor.org/stable/26491348

23. Bucklin, C.J. & **Daniel, K.L.** (2017). Using word associations as a formative assessment for understanding phylogenetics. *The American Biology Teacher, 79(8)*, 668-670. https://doi.org/10.1525/abt.2017.79.8.668

22. **Daniel, K.L.** & Mishra, C. (2017). Student outcomes from participating in an international STEM service-learning course. *SAGE Open. January-March,* 1-11. https://doi.org/10.1177/2158244017697155

21. **Daniel, K.L.** (2016). Impacts of active learning on student outcomes in large lecture biology courses. *The American Biology Teacher, 78(8),* 651-655. https://doi.org/10.1525/abt.2016.78.8.651

20. Moore, A.D., **Daniel, K.L.**, & Thomas, A.K. (2016). Engaging students with ADHD through a nature hike. *American Journal of Undergraduate Research, 13,* 73-80. *http://www.ajuronline.org/uploads/Volume_13_2/AJURJune2016pp73to80.pdf*

19. Planchard, M., **Daniel, K.L.**, Maroo, J., Mishra, C., & McLean, T. (2015). Homework, motivation, and achievement in a college genetics course. *Bioscene, 41(2),* 11-18. http://files.eric.ed.gov/fulltext/EJ1086528.pdf

18. Boyce, C.J., Mishra, C., **Halverson, K.L.** & Thomas, A.K. (2014). Getting students OUTSIDE: Using technology as a way to stimulate engagement. *Journal of Science Education and Technology, 23,* 815-826. https://link.springer.com/article/10.1007/s10956-014-9514-8

17. Siegel, M., Menon, D., Sinha, S., Promyod, N., Wissehr, C., & **Halverson, K.L.** (2014). Equitable written science assessments for English language learners: How scaffolding helps. *Journal of Science Teacher Education, 25(6),* 681-708. https://doi.org/10.1007/s10972-014-9392-1

16. McLaurin, D., **Halverson, K.L.**, & Boyce, C.J. (2013). Using Manipulative Models to Develop Tree-Thinking. *Biology International – The International Union of Biological Sciences (IUBS), 54,* 108-121. http://www.iubs.org/fileadmin/user_upload/Biology-International/BI/BI_Numero_54.pdf

15. Walter, E.M., **Halverson, K.L.**, & Boyce, C.J. (2013). Investigating the relationship between college students' acceptance of evolution and tree thinking understanding. *Evolution: Education, and Outreach, 6,* 26. https://doi.org/10.1186/1936-6434-6-26

14. **Halverson, K.L.**, Boyce, C.J., & Maroo, J.D. (2013). Order matters: Pre-assessments and student generated representations. *Evolution: Education and Outreach, 6,* 24. https://doi.org/10.1186/1936-6434-6-24

13. Witzig, S., **Halverson, K.L.,** Siegel, M.A., & Freyermuth, S.K. (2011). The interface of opinion, understanding, and evaluation while learning about a socioscientific issue. *International Journal of Science Education, 35(15),* 2483-2507. https://doi.org/10.1080/09500693.2011.600351

12. **Halverson, K.L.,** Pires, J.C., & Abell, S.K**.** (2011). Exploring the complexity of tree thinking expertise in an undergraduate plant systematics course. *Science Education, 95(5),* 794-823. https://doi.org/10.1002/sce.20436

11. **Halverson, K.L.** (2011). Improving tree-thinking one learnable skill at a time. *Evolution: Education and Outreach, 4,* 95-106. https://doi.org/10.1007/s12052-010-0307-0

10. Siegel, M.A., **Halverson, K.L.,** Freyermuth, S.K., & Clark, C.G. (2011). Beyond grading: A series of rubrics for science learning. *The Science Teacher, 78(1),* 28-33. http://learningcenter.nsta.org/files/tst1101_28.pdf

9. **Halverson, K.L.,** Siegel, M.A., & Freyermuth, S.K. (2010). Non-Science majors' critical evaluation of websites in a biotechnology course. *Journal of Science Education and Technology, 19(6),* 612-620. https://doi.org/10.1007/s10956-010-9227-6

8. **Halverson, K.L.,** Freyermuth, S.K., Siegel, M.A., & Clark, C.G. (2010). What undergraduates misunderstand about stem cell research. *International Journal of Science Education, 32(17),* 2253-2272. https://doi.org/10.1080/09500690903367344

7. Concannon, J., Siegel, M.A., **Halverson, K.L.,** & Freyermuth, S.K. (2010). College students' conceptions of stem cells, stem cell research, and cloning. *Journal of Science Education and Technology, 19,* 177-186. https://doi.org/10.1007/s10956-009-9190-2

6. **Halverson, K.L.** (2010). Using pipe cleaners to bring the tree of life to life. *The American Biology Teacher, 72(4),* 223-224. doi: http://dx.doi.org/10.1525/abt.2010.72.4.4

5. **Halverson, K.L.** & Lankford, D.M. (2009). Science galls me: What is a niche anyway? *The American Biology Teacher, 71(8),* 483-491. doi: http://dx.doi.org/10.1662/005.071.0807

4. **Halverson, K.L.,** Siegel, M.A., & Freyermuth, S.K. (2009). Lenses for framing decisions: Undergraduates' decision making about stem cell research. *International Journal of Science Education, 31(9),* 1249-1268. https://doi.org/10.1080/09500690802178123

3. Siegel, M., Wissehr, C.F., & **Halverson, K.L.** (2008). Sounds like "success:" A framework for equitable assessment. *The Science Teacher, 75 (3),* 43-46. http://learningcenter.nsta.org/files/tst0803_43.pdf

2. **Halverson, K.L.,** Heard, S.B., Nason, J.D., & Stireman, J.O. (2008). Differential attack on diploid, tetraploid, and hexaploid *Solidago altissima* L. by five insect gallmakers. *Oecologia, 154,* 755-761. https://doi.org/10.1007/s00442-007-0863-3

1. **Halverson, K.L.,** Heard, S.B., Nason, J.D., & Stireman, J.O. (2008). Origins, distribution and local co-occurrence of polyploidy cytotypes in *Solidago altissima* (Asteraceae). *American Journal of Botany, 95*, 50-58. https://doi.org/10.3732/ajb.95.1.50

b. Non-refereed Articles:

Maroo, J. & **Halverson, K.L.** (2011). Tree-Thinking: A branch of mental rotation. *Synergy: Different Entities Cooperating for a Final Outcome, 2*(2), 53-59.

Boyce, C.J. & **Halverson, K.L.** (2011). Understanding evolution and evidentiary support. *Synergy: Different Entities Cooperating for a Final Outcome, 2*(2), 101-107.

3. Conference Proceedings

a. Refereed Conference Proceedings:

49. Kaur, A., Taylor, S., **Daniel, K.L.**, Bucklin, C.J. (2026, April). Motivation and science identity changes in pre-service elementary teachers following a science CURE. *Proceedings of the 2026 NARST Annual International Conference*, Seattle, WA.

48. Saha, M., Schuchardt, A. & **Daniel, K.L.** (2026, April). A study of exploring undergraduate students' interpretations of biological sense-making with equations using eye movements. *Proceedings of the 2026 NARST Annual International Conference*, Seattle, WA.

47. Kharatmal, M., **Daniel, K.L.**, Becker, K., & Zipperer, J. (2026, April). AI and human thematic mapping of volunteer motivation and sustained engagement in citizen science program. *Proceedings of the 2026 NARST Annual International Conference*, Seattle, WA.

46. Gay, D., **Daniel, K.L.**, & Bucklin, C.J. (2026, April). Increasing wildlife career Preparedness: comparing an inquiry-based and a course-based undergraduate research experience wildlife laboratory course. *Proceedings of the 2026 NARST Annual International Conference*, Seattle, WA.

45. Vite, A., Pituch, K., Fong, C. J., Awad, G., Zong, Y., Zarei, P., Nguyen, L., Lee, D., Bancroft, C., **Daniel, K.L.**, McKay, T., Aguilar, S., Cokley, K., Jess, C., Patall., E. A. (2026). Supporting Student Agency in Undergraduate Biomedical Education: An Online Agentic Orientation Intervention. *Paper to be presented at the Annual Meeting of the American Educational Research Association.* Los Angeles, CA.

44. Martin, C. L., Vite, A. C., Zambrano, J., Jess, C. A., Nguyen, L., Fong, C. J., Awad, G., Pituch, K., Zong, Y., Zarei, P., Lee, D. J., Bancroft, C., **Daniel., K.L.**, McKay, T., Aguilar, S., Cokley, K., & Patall, E. A. (2026, April). Fostering STEM Persistence: Student Responses to an Agentic Orientation Intervention in Biomedical Science. *Paper presented at the Annual Meeting of the American Educational Research Association.* Los Angeles, CA.

43. Saha, M., Ferguson, D., & **Daniel, K.L.** (2025, March). A study of undergraduate students' interpretations of tree-thinking using eye movements. *Proceedings of the NARST Annual International Conference,* National Harbor, Maryland.

42. Zipperer, J., Jess, C., Bucklin, C.J., & **Daniel, K.L.** (2025, March). Science in third spaces: Exploring community motivations at informal brewery events. *Proceedings of the NARST Annual International Conference,* National Harbor, Maryland. https://virtual.oxfordabstracts.com/event/44289/submission/256

41. Jess, C. & **Daniel, K.L.** (2024, November). Exploring outcomes from participating in an outdoor science activity. *Proceedings of the National Association of Biology Teachers Research Symposium,* Anaheim, CA.

40. **Daniel, K.L.**, Lincoln Seets, R.M., Jess, C.A., & Zipperer, J. (2024, March). Engaging in scaffolded outdoor scientific practices to build feelings of being a scientist. *Proceedings of the NARST Annual International Conference*, Denver, CO.

39. **Daniel, K.L.** (2022, November). Do you see what I see? *Proceedings of the National Association of Biology Teachers*, Indianapolis, IN.

38. Ashford-Hanserd, S., **Daniel, K.L.**, & Garcia, D.M. (2022, April). Exploring STEM success skills of minority STEM majors at an HSI. *Proceedings of the American Educational Research Association Annual International Conference*, San Diego, CA.

37. Ashford-Hanserd, S., **Daniel, K.L.,** Garcia, D.M., Lerma, Y., & Pedroso, R. (2021, March). Influences on historically underrepresented minority students' decisions to enroll and persist in STEM majors. *Proceedings of the NARST Annual International Conference*, Orlando, FL.

36. Ocampo, D., Idema, J, & **Daniel, K.L.** (2021, March). Exploring the presentation of climate change through virtual aquarium exhibits. *Proceedings of the NARST Annual International Conference*, Orlando, FL.

35. Idema, J.L, Reyes, V., & **Daniel, K.L.** (2020, October). Using socioscientific issues as a model for fostering visitor engagement. *Proceedings of the 25th bi-annual conference of International Zoo Educators Association,* San Diego, CA.

34. Idema, J., **Daniel, K.L.**, Ashford-Hanserd, S., & García, D. (2020, March). Factors influencing Biology majors' persistence in their degree. *Proceedings of the NARST Annual International Conference,* Portland, OR. **Conference canceled due to COVID-19 pandemic.*

33. Reyes, V., Idema, J., & **Daniel, K.L.** (2020, March). Family interpretations of conservation messaging at an aquarium exhibit. *Proceedings of the NARST Annual International Conference,* Portland, OR. **Conference canceled due to COVID-19 pandemic.*

32. Bucklin, C.J., **Daniel, K.L.,** & Nolen, Z.L. (2019, April). Introductory biology majors understanding of phylogenies after variable intervention types. *Proceedings of the annual meeting of the American Educational Research Association,* Toronto, Canada. https://doi.org/10.3102/1440820

31. **Daniel, K.L.**, Leone, E.A., & Bucklin, C.J. (2019, April). Developing a tree-thinking diagnostic test to assess individual elements of representational competence. *Proceedings of the annual meeting of the American Educational Research Association,* Toronto, Canada. https://doi.org/10.3102/1440655

30. Salisbury, S. & **Daniel, K.L.** (2019, March). Preservice Teacher Engagement during a Nature-Based Fieldtrip. *Proceedings of the NARST Annual International Conference,* Baltimore, MD.

29. Idema, J.L., Nolen, Z.L., Leone, E.A., Parsley, K.M., Salisbury, S., & **Daniel, K.L.** (2017, November). Comparing learning objective communication between professors and students in the classroom. *Proceedings of the Research Symposium for the National Association of Biology Teachers Annual Meeting,* St. Louis, MO.

28. Bucklin, C.J. & **Daniel, K.L.** (2017, April). Changes in students' phylogenetic tree-reading: A quasi-experimental design study. *Proceedings of the NARST Annual International Conference,* San Antonio, TX. https://narst.org/sites/default/files/2019-07/2017_Abstracts.pdf

27. **Daniel, K.L.** & Mishra, C. (2016, April). Investigating the role of reflexive practices in a science laboratory course. *Proceedings of the NARST Annual International Conference,* Baltimore, MD.

26. **Daniel, K.L.** (2015, September). Impacts of collaborative active learning in a large lecture setting. *Proceedings of the biennial meeting of the European Science Education Research Association,* Helsinki, Finland.

25. **Daniel, K.L.** & Clase, K.L. (2015, September). Teaching systems biology through a course based undergraduate research experience. *Proceedings of the biennial meeting of the European Science Education Research Association,* Helsinki, Finland.

24. St. Clair, A., **Halverson, K.L.**, Thomas, A.K., & Boyce, C.J. (2015, April). Dividing attention participation to support informal learning. *Proceedings of the NARST Annual International Conference,* Chicago, IL. https://narst.org/sites/default/files/2019-07/2015_Abstracts.pdf

23. **Halverson, K.L.** & Clase, K.L. (2014, June). Using classroom-based authentic research experiences to foster scientific thinking and representational competence. *Proceedings of the annual meeting of the International Conference of the Learning Sciences,* Boulder, CO.

22. Boyce, C.J., Mishra, C., **Halverson, K.L.**, & Thomas, A.K. (2014, April). Getting students OUTSIDE: Using technology as a way to stimulate engagement. *Proceedings of the NARST Annual International Conference,* Pittsburg, PA. https://narst.org/sites/default/files/2019-07/2014_Abstracts.pdf

21. Maroo, J. & **Halverson, K.L.** (2014, April). Nursing students' attitudes toward science: A modification of the Scientific Attitude Inventory II (SAI II). *Proceedings of the NARST Annual International Conference,* Pittsburg, PA.

20. Clase, K., & **Halverson, K.L.** (2013, September). Using technology to facilitate science learning and community development. *Proceedings of the biennial meeting of the European Science Education Research Association,* Nicosia, Cyprus.

19. McLaurin, D.C., **Halverson, K.L.**, Boyce, C.J. (2013, April). Using manipulative models to develop tree-thinking. *Proceedings of the NARST Annual International Conference,* Rio Grande, Puerto Rico. https://narst.org/sites/default/files/2019-07/2013_Abstracts.pdf

18. Saleh, M.R., **Halverson, K.L.,** Gearity, B. (2013, April). Moving students to a better understanding of enzyme specificity. *Proceedings of the NARST Annual International Conference,* Rio Grande, Puerto Rico.

17. Samuel, J. & **Halverson, K.L.** (2013, April). Factors influencing middle school teachers' planning and facilitation of visualization-based instruction. *Proceedings of the NARST Annual International Conference,* Rio Grande, Puerto Rico.

16. **Halverson, K.L.,** Walter, E., & Boyce, C.J. (2012, March). Investigating the relationship between college students' acceptance of evolution and tree thinking understanding**.** *Proceedings of the Proceedings of the NARST Annual International Conference,* Indianapolis, IN. https://narst.org/sites/default/files/2019-07/2012_Abstracts.pdf

15. Clase, K.L., **Halverson, K.L.,** Bohn, S., & Heyden, R. (2012, March). Using Second Life in a formal STEM classroom to learn how to represent annotated genomes and develop a sense of community. *Proceedings of the Proceedings of the NARST Annual International Conference,* Indianapolis, IN.

14. Boyce, C.J., Maroo, J., & **Halverson, K.L.** (2011, April). The influence of task order on student responses on a tree thinking pretest. *Proceedings of the annual meeting of the American Educational Research Association,* New Orleans, LA.

13. Boyce, C.J., & **Halverson, K.L.** (2011, April). Understanding evolution and evidentiary support. *Proceedings of the Annual Meeting of the Proceedings of the NARST Annual International Conference,* Orlando, FL. https://narst.org/sites/default/files/2019-07/2011_Abstracts.pdf

12. Fang, H., **Halverson, K.L.,** Williams, S.P., & Li, X. (2011, April). Using discussion in online and traditional college courses. *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

11. Johnson, S., Maroo, J., & **Halverson, K.L.** (2011, April). Classification of undergraduate alternative conceptions of the Tricarboxylic Acid Cycle. *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

10. Maroo, J., & **Halverson, K.L.** (2011, April). A mental mobile: Using branch rotation to solve the puzzle, "Are these trees the same?" *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

9. Parr, J., Syed, N., & **Halverson, K.L.** (2011, April). Non-Science majors' perceptions of integrating SSI instruction into high school curricula. *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

8. Planchard, M., **Halverson, K.L,** Maroo, J., & McLean, T. (2011, April). Homework, motivation, and achievement in a college genetics course. *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

7. Sinha, S., Menon, D., Siegel, M.A., Promyod, N., Wissehr, C.F., & **Halverson, K.L.** (2011, April). Assessments for English language learners: How scaffolding helps. *Proceedings of the Proceedings of the NARST Annual International Conference,* Orlando, FL.

6. **Halverson, K.L.** (2010, June). Improving undergraduates' approaches to understanding tree thinking. *Proceedings of the annual meeting of the International Conference of Learning Sciences*, Chicago, IL.

5. **Halverson, K.L.** (2010, March). Exploring the link between mental rotation and college student learning with phylogenetic trees. *Proceedings of the Proceedings of the NARST Annual International Conference,* Philadelphia, PA.

4. Concannon, J., Siegel, M.A., Freyermuth, S.K., & **Halverson, K.L.** (2009, April). College students' conceptions of stem cells, stem cell research, and cloning. *Proceedings of the Proceedings of the NARST Annual International Conference,* Garden Grove, CA.

3. **Halverson, K.L.,** Abell, S.K., Friedrichsen, P.M., & Pires, J.C. (2009, April). Testing a model of representational competence applied to phylogenetic tree thinking. *Proceedings of the Proceedings of the NARST Annual International Conference,* Garden Grove, CA.

2. **Halverson, K.L.,** Pires, J.C., & Abell, S.K. (2008, March). Undergraduates' abilities to use representations in biology: Interpreting phylogenetic tree thinking. *Proceedings of the Proceedings of the NARST Annual International Conference,* Baltimore, MD.

1. **Halverson, K.L.,** Siegel, M.A., & Freyermuth, S.K. (2008, March). Socioscientific decision making: Undergraduates' perspectives on stem cell research. *Proceedings of the annual meeting of the American Education Research Association,* New York, NY.

4. Abstracts

Messick, J.A., Serenari, C., Rubino, E.C., Weckerly, F., & **Daniel, K.L.** (2023). Incorporating landowner values into communications improves conservation outcomes. *Pathways 2023: Human Dimensions of Wildlife Conference and Training.*

Messick, J., Serenari, C., Rubino, E., Weckerly, F., & **Daniel, K. L.** (2023). Strategic communication to increase willingness to engage in ESC. *Texas Chapter of the Wildlife Society,* Corpus Christi, TX.

Serenari, C., Pratt, E., Meeks, A., & **Daniel, K.L.** (2023). Stewardship ideology influences hunters' acceptability of changes to alligator hunting seasons. *Texas Chapter of the Wildlife Society.*

Rubino, E.C., Messick, J.A., Serenari, C., **Daniel, K.L.**, Bates, E., & Crump, P. (2022). Testing communication strategies to increase Houston toad Safe Harbor Agreement enrollment. *The Wildlife Society.*

Messick, J.A., Serenari, C., **Daniel, K.L.**, Idema, J., & Lute, M. (2021). Determinants influencing recruitment in the Houston Toad programmatic safe harbor agreement. *The Wildlife Society,* 256.

Oyejide, K., Hanna, J., **Daniel, K.L.**, & Huertas, M. (2020). Can classrooms have an impact on student stress? *The FASEB Journal, 34*, 1-1. https://doi.org/10.1096/fasebj.2020.34.s1.09834

Clase, K.L., **Halverson, K.L.**, Rickus, J., & Heyden, R. (2012). Integrating emerging technologies into formal education for assessment. *The FASEB Journal, 26,* 519.1. https://doi.org/10.1096/fasebj.26.1_supplement.519.1

5. Reports: *(Non-refereed)*

Serenari, C., Rubino, E.C., **Daniel, K.L.**, & Messick, J. (2023, December). *Testing communication strategies to increase Houston toad Safe Harbor Agreement enrollment.* Final Performance Report, San Marcos, TX: Texas State University.

Serenari, C., Rubino, E., **Daniel, K.**, & Messick, J. (2022, October). *Testing communication strategies to increase Houston toad Safe Harbor Agreement enrollment.* Interim Performance Report, San Marcos, TX: Texas State University.

Daniel, K.L., Tucker, A., & Harp, D. (2022, April). *Academic program reviewer's report: Biological sciences.* Commerce, TX: Texas A&M University-Commerce.

Serenari, C., Rubio, E., **Daniel, K.L.**, & Messick, J. (2021). *Testing communication strategies to increase Houston toad Safe Harbor Agreement enrollment: Interim performance report.* San Marcos, TX: Texas State University.

Ashford-Hanserd, S., **Daniel, K.L.**, Garcia, D. & Pedroso, R. (2020). *ACCEYSS NSF project outcomes report.* San Marcos, TX: Texas State University.

Messick, J., Lute, M., Serenari, C., Idema, J., **Daniel, K.**, Covington, B., Payne, G., & Forstner, M. (2019). *Investigating determinants influencing recruitment into Houston Toad Safe Harbor Agreements.* San Marcos, TX: Texas State University.

Daniel, K.L. (2015). *OUTSIDE: Over, under, and through: Students informally discover the environment - NSF Outcomes and Final Project Report.* Hattiesburg, MS: Department of Biological Sciences, USM.

Halverson, K.L. (2014). *OUTSIDE: Over, under, and through: Students informally discover the environment - NSF Second Annual Project Report.* Hattiesburg, MS: Department of Biological Sciences, USM.

Halverson, K.L. (2013). *OUTSIDE: Over, under, and through: Students informally discover the environment - NSF First Annual Project Report.* Hattiesburg, MS: Department of Biological Sciences, USM.

Abell, S., Cole, J., Ehlert, M., Lannin, J., Marra, R., **Halverson, K.,** Hutchins, K., Lee, M., Park Rogers, M. Wang, C. (2006). *Missouri Department of Higher Education Improving Teacher Quality Grants: Cycle 3 External Evaluation Report*. Columbia, MO: Science Education Center, MU.

Abell, S., Cole, J., Ehlert, M., Marra, R., Brown, P., **Halverson, K.,** Hutchins, K., Lee, M., Musikul, K., Park Rogers, M., Wang, C. (2005). *Missouri Department of Higher Education Improving Teacher Quality Grants: Cycle 2 External Evaluation Report*. Columbia, MO: Southwestern Bell Science Education Center, MU.

6. Book Reviews:

Halverson, K.L. (2013). Tree-Thinking: An Introduction to Phylogenetic Biology [Book Review]. *Reports of the National Center for Science Education, 33(5),* 7.1-7.3. http://reports.ncse.com/index.php/rncse/article/view/213/365

7. Other Works in Print:

Daniel, K.L., Zipperer, J., Godfrey, A., & Bucklin, C.J. (2025). *Natural journey.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Zipperer, J., Godfrey, A., Bucklin, C.J., **& Daniel, K.L.** (2025). *Plant protectors.* Research Rangers Activity, Jr. Ed. https://researchrangers.wp.txstate.edu/?page_id=151

Asher, L., Serda, A., Pascarella, G., Zipperer, J., Godfrey, A., & **Daniel, K.L.** (2025). *Tree walk.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Casey, H., Garrett, T., Bryan, N., Ryan, E., Zipperer, J., Godfrey, A., & **Daniel, K.L.** (2025). *Slithering snakes.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Mueller, E., Griffin, T., Zipperer, J., Godfrey, A., & **Daniel, K.L.** (2025). *Prickly potential.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Regan, C., Poe, F., Robles, A., Jess, C., Godfrey, A., & **Daniel, K.L.** (2025). *Living together guide.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Dahl, L., Montes, Y., Garcia, V., Jess, C., Godfrey, A., & **Daniel, K.L.** (2025). *Gall guide.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Daniel, K.L. (2025). *Sensing nature.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Daniel, K.L. & Zipperer, J. (2025). *Mighty metamorphs.* Research Rangers Activity, Jr. Ed. https://researchrangers.wp.txstate.edu/?page_id=151

Zipperer, J., Tucker, K., Gay, D., & **Daniel, K.L.** (2025). *Fawn watch.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Jess, C. & **Daniel, K.L.** (2025). *Trace trackers.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Bucklin, C.J., Zipperer, J., & **Daniel, K.L.** (2025). *Winged wanderers*. Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Daniel, K.L. & Zipperer, J, (2025). *Where's wildlife.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Bucklin, C.J., **Daniel, K.L.** & Zipperer, J. (2025). *Bird buddies.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Daniel, K.L., Forsythe, M., Zipperer, J. (2024). *Firefly watch.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Tucker, K., Carrell, S., Piland, T., Zipperer, J., Forsythe, M., & **Daniel, K.L.** (2024). *Living waters.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Sikes, E., Barrett, A., Zipperer, J., Forsythe, M., & **Daniel, K.L.** (2024). *Animal invaders.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Cerda, S.L., Gatalica, D., Zipperer, J., Forsythe, M., & **Daniel, K.L.** (2024). *Mammal signs.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Bocanegra, J., Becker, K., Zipperer, J., Forsythe, M., & **Daniel, K.L.** (2024). *Feeding fungi.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Martinez, A., Acosta, N, Zipperer, J., Jess, C. Forsythe, M., & **Daniel, K.L.** (2024). *Fossil hunt.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Marty, B. & **Daniel, K.L.** (2024). *Spider friends.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Baratang, H. & **Daniel, K.L.** (2024). *Good gall-y.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Pringle, B., Jess, C., & **Daniel, K.L.** (2024). *Nature invaders.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Seets, R., **Daniel, K.L.**, & Forsythe, M. (2024). *Pollination Partners.* Research Rangers Activity. https://researchrangers.wp.txstate.edu/?page_id=151

Daniel, K.L. (2021, March 12). Mastering the puzzle of working with an interdisciplinary team: The good, the bad, and the awesome. *BRIDGES.* https://bridges.wp.txstate.edu/2021/03/12/mastering-the-puzzle-of-working-with-an-interdisciplinary-team-the-good-the-bad-and-the-awesome/

Thomas, A.K. & **Halverson, K.L.** (2012). *Go to Lake Thoreau [iPad app]*. Available from https://itunes.apple.com/us/app/go-to-lake-thoreau/id593032744?mt=8

8. Media Exposure

Staff. (2025, October 1). Two area breweries to host science event this weekend. Dripping Springs Century News. https://www.drippingspringsnews.com/article/3012,two-area-breweries-to-host-science-event-this-weekend

Zipperer, J. (2025). Research Rangers: Whos' brewing up knowledge at free family science events? The Research Rangers team! *Hays Humm, April,1-11.* https://www.beautifulhayscounty.org/hays-humm/research-rangers

Staff. (2025, April 30). Seasons of Science brings more science to local breweries. *San Marcos Daily Record*, online. Https://www.sanmarcosrecord.com/article/30042,seasons-of-science-brings-more-science-to-local-breweries

Staff. (2025, April 2). 'Seasons of Science' to celebrate Central Texas pollinators. *Dripping Springs Century News, online.* https://www.drippingspringsnews.com/article/2691,seasons-of-science-to-celebrate-central-texas-pollinators

San Marcos Daily Record. (2025, March 23). *Celebrating central Texas pollinators: Seasons of Science brings science fun to local breweries* [Press release]. https://www.sanmarcosrecord.com/article/29676,celebrating-central-texas-pollinators-seasons-of-science-brings-science-fun-to-local-breweries

Hays Free Press. (2025, March 19). *Seasons of Science brings science fun to local breweries* [Press release]. https://www.haysfreepress.com/2025/03/19/seasons-science-brings-science-fun-local-breweries/

Kendrick, T. (2025, March 18). Bringing science out of the classroom. *The Wimberley View,* online. https://www.wimberleyview.com/article/3263,bringing-science-out-of-the-classroom

Cross, B. (2024). Gathering: To inspire and honor our people. *Hays Humm, Nov,1-16.* https://www.beautifulhayscounty.org/hays-humm/gathering

Cross, B. (2024). Texas Master Naturalist 2024 annual meeting: Hays County leads the way. *Hays Humm, Nov,1-29.* https://www.beautifulhayscounty.org/hays-humm/tmn-meeting

Laffey, J. Ed. (2024). Texas students enjoy study trip in Mayo. *Western People, Aug 8,1-3.* https://www.westernpeople.ie/news/texas-students-enjoy-study-trip-in-mayo_arid-27218.html

Kelly, T. Ed. (2024). US students study unique habits at Mayo's Lough Carra. *The Connaught Telegraph, Aug 7,1-6.* https://www.con-telegraph.ie/2024/08/07/us-students-study-unique-habits-at-mayos-lough-carra/

Sweat, D. (2024, July 7). Seasons of Science helps teach about recycling [Press release]. *San Marcos Daily Record.* https://sanmarcosdailyrecord.com/news/seasons-science-helps-teach-about-recycling

Flaherty, C. (2018). Fermahagh's rich history makes lasting impression. *Impartial Reporter, Aug 9, 12.*

B. Works not in Print

1. Papers Presented at Professional Meetings:

Zipperer, J. & **Daniel, K.L.** (2026, April). *Community service, outreach, and emotional well-being drives volunteer motivation.* Poster presented at the 2026 NARST Annual International Conference, Seattle, WA.

Spencer, R., Kharatmal, M., & **Daniel, K.L.** (2026, April). *Exploring the integration of place-based pedagogy and environmental interpretation at an informal science institution.* Roundtable presentation at the 2026 NARST Annual International Conference, Seattle, WA.

Kharatmal, M., Harper-Gampp, T., Thompson, T., Jess, C., Zipperer, J., & **Daniel, K.L.** (2026, April). *Leveraging science communication in fostering science literacy and science identity among biology graduate students.* Roundtable presentation at the 2026 NARST Annual International Conference, Seattle, WA.

Patall, E. A., Vite, A., Zambrano, J., Kennedy, A., Yates, N., Awad, G., Fong, C. J., Pituch, K., Zong, Y., Zarei, P., Nguyen, L., Lee, D. J., Bancroft, C., **Daniel, K.L.**, McKay, T., Aguilar, S., Cokley, K., Vallin, J. A., Jess, C., & Martin, C. (2026, April). *Catalyzing an orientation for agency: The development of an intervention to support active motivation.* In S. Y. Lee & C. A. Hecht (Co-Chairs), From idea to impact: Candid reflections on building interventions. Symposium presented at the Annual Meeting of the American Educational Research Association. Los Angeles, CA.

Zipperer, J., Bucklin, C. J., & **Daniel, K. L.** (2026, February). *Not just event planning: Developing outreach events with the help of community partners.* [Conference presentation]. Informal Science Education Association of Texas 2026 Annual Conference, Houston, TX, United States.

Kharatmal, M., Becker, K., Zipperer, J., & **Daniel, K. L.** (2026, February). *Community service, outreach, and emotional well-being drives volunteer motivation.* [Poster presentation]. Informal Science Education Association of Texas 2026 Annual Conference, Houston, TX, United States.

Kharatmal, M. & **Daniel, K.L.** (2025, December). *A thematic analysis of volunteer motivations for sustainability of citizen science programs.* Presentation at the International Conference in STEM Education (IC-STEME25). Thimphu, Bhutan.

Daniel, K.L., Hiatt, A., Karpakakunjaram, V., & Uno, G. (2025, November). *NABT partnerships can enhance biology education grants.* Presentation at the National Association of Biology Teachers 2025 Annual Conference. St. Louis, MO.

Kaur, A. Bucklin, C., Taylor, S., & **Daniel, K.L.** (2025, November). *Assessing motivational shifts in pre-service elementary teachers (PSETs) engaged in a science CURE.* [Poster presentation]. National Association of Biology Teachers 2025 Annual Conference. St. Louis, MO, United States.

Kharatmal, M., Becker, K., Zipperer, J., & **Daniel, K. L.** (2025, November). *Community service, outreach, and emotional well-being drives volunteer motivation.* [Poster presentation]. National Association of Biology Teachers 2025 Annual Conference. St. Louis, MO, United States.

Saha, M., **Daniel, K.L.**, Thompson, T., Marcroft, T., & Tucker, K. (2025, November). *Understanding how experts view tree diagrams by using eye-tracking technology.* [Poster presentation]. National Association of Biology Teachers 2025 Annual Conference. St. Louis, MO, United States.

Thompson, T., Saha, M., Silverstein, C., Marcroft, T., & **Daniel, K.L.** (2025, November). *Assessing everyday thinking about organismal relatedness: Piloting the structural metaphor and organism sorting strategy instrument (SMOSSI).* [Poster presentation]. National Association of Biology Teachers 2025 Annual Conference. St. Louis, MO, United States.

Daniel, K.L., Zipperer, J., Becker, K., & Kharatmal, M. (2025, October). *Getting involved and staying involved in Texas citizen science.* Presentation at the Texas Master Naturalist annual state meeting. College Station, TX.

Zipperer, J. & **Daniel, K. L.** (2025, October). *Navigating new programming paths to build creative outreach that's wanted.* Presentation at the Texas Master Naturalist annual state meeting. College Station, TX.

Yeh, H., Silverstein, C., Marcroft, T., & **Daniel, K.L.** (2025, July). *Comparing the tree-thinking performance of two multimodal conversational artificial intelligences (MMCAI).*

Presentation at the Society for the Advancement of Science Education Research annual meeting. Minneapolis, MN.

Saha, M., Marcroft, T., Komperda, R., & **Daniel, K.L.** (2025, July). *Validity and reliability evidence for a novel organismal categorization assessment.* Presentation at the Society for the Advancement of Science Education Research annual meeting. Minneapolis, MN.

Kharatmal, M. Becker, K., Zipperer, J., & **Daniel, K.L.** (2025, July). *Unraveling volunteer motivation in a citizen science program through qualitative inquiry.* Presentation at the Society for the Advancement of Science Education Research annual meeting. Minneapolis, MN.

Zong, Y., Patall, E.A., Vite, A., Fong, C., Awad, G., Pituch, K., Bancroft, C., **Daniel, K.**, Aguilar, S., Cokley, K., McKay, T., Nguyen, L., Zarei, P., Lee, D., & Jess, C. (2025, March). *New directions for supporting student agency and autonomy.* Presentation at the University of Southern California Rossier research conference. Los Angeles, CA.

Zipperer, J., Jess, C., Schobel, R., Forsythe, S., Williamson, P., & **Daniel, K. L.** (2025, February). *Enhance your outdoor science programming with free Research Rangers resources.* Presentation at the annual meeting of the Informal Science Education Association of Texas. San Antonio, TX.

Zipperer, J., Gay, D., Jess, C., Bucklin, C.J., & **Daniel, K.L.** (2025, February). *Brewing knowledge: Engaging communities through informal science events at breweries.* Presentation at the annual meeting of the Informal Science Education Association of Texas. San Antonio, TX.

Kaur, A., Ojeogwu, J., **Daniel, K.L.**, & Bucklin, C.J. (2025, February). *The importance & developmental process of creating valid and reliable measures to assess student learning.* Presentation at the annual meeting of the Informal Science Education Association of Texas. San Antonio, TX.

Zipperer, J. & **Daniel, K.L.** (2024, November). *What a rubber ducky can teach up about doing science.* Presentation at the annual meeting of the National Association of Biology Teachers, Anaheim, CA.

Kaur, A., **Daniel, K.L.**, & Bucklin, C.J. (2024, November). *The development and importance of valid and reliable measures to assess student learning.* Presentation at the annual meeting of the National Association of Biology Teachers, Anaheim, CA.

Saha, M., **Daniel, K.L.**, & Schuchardt, A. (2024, November). *Exploring undergraduate students' interpretations of biological sense-making with equations using eye movements.* Presentation at the annual meeting of the National Association of Biology Teachers, Anaheim, CA.

Daniel, K.L. & Little, M. (2024, November). *Bringing trees to the forefront of evolution education.* Presentation at the annual meeting of the National Association of Biology Teachers, Anaheim, CA.

Gocha, T. & **Daniel, K.L.** (2024, October). *Explore the role of nature in forensic anthropology.* Presentation at the annual meeting of the Texas Master Naturalists, San Marcos, TX.

Zipperer, J. & **Daniel, K.L.** (2024, October). *Turning master naturalists into nature interpreters.* Presentation at the annual meeting of the Texas Master Naturalists, San Marcos, TX.

Daniel, K.L. (2024, October). *Good gall-y.* Presentation at the annual meeting of the Texas Master Naturalists, San Marcos, TX.

Gay, D., Bucklin, C., & **Daniel, K.L.** (2024, October). *Exploring career preparedness through a wildlife CURE*. The Wildlife Society Annual Conference, Baltimore, MD.

Kaur, A., Bucklin, C.J., **Daniel, K.L.**, & Taylor, S. (2024, July). *Exploring the impact of CUREs on pre-service elementary teachers: Science affinity, motivating learning strategies, and perceptions of instructional support.* Presentation at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Ferguson, D. & **Daniel, K.L**. (2024, July). *Thinking, praying, and accepting, oh my! Improving evolution education through leveraging the consideration of diverse perspectives.* Presentation at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Kaur, A., Bucklin, C.J., & **Daniel, K.L.** (2024, February). *Student engagement, perceived costs of belonging in biology, and instructor fidelity to instruction.* Presentation at the Informal Science Education Association annual meeting, Corpus Christi, TX.

Alam, F. & **Daniel, K.L.** (2024, February). *Modeling minds: Fostering scientific inquiry through diverse models in science education.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Corpus Christi, TX.

Baratang, H. & **Daniel, K.L.** (2024, February). *Drawing as a generative learning activity: A case study on a nature journaling course.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Corpus Christi, TX.

Saha, M., Ferguson, D., & **Daniel, K.L.** (2024, February). *Eye tracking: Interpreting phylogenetic trees.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Corpus Christi, TX.

Jess, C. Zipperer, J., & **Daniel, K.L.** (2024, February). *Impact of outdoor science activities on participants' understanding of STEM techniques, learning, and the natural world.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Corpus Christi, TX.

Jess, C., Baratang, H., Pringle, B., Zipperer, J., Schobel, R., & **Daniel, K.L.** (2024, February). *Developing a scientific identity through Research Rangers.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Corpus Christi, TX.

Saha, M., Ferguson, D., & **Daniel, K.L.** (2023, November). *An investigation of college-level students' interpretation of phylogenetic trees by eye movement*. Presentation at the annual meeting of the National Association of Biology Teachers, Baltimore, MD.

****Won First Prize in the Graduate Student Biology Education Research Poster Award**

Jess, C., Zipperer, J., & **Daniel, K.L.** (2023, November). *Impact of outdoor science activities on participants' understanding of STEM techniques, learning, and the natural world.* Presentation at the annual meeting of the National Association of Biology Teachers Conference, Baltimore, MD.
****Won Second Prize in the Graduate Student Biology Education Research Poster Award**

Daniel, K.L. & Bucklin, C.J. (2023, November). *Dealing with a zombie epidemic: Applying knowledge of microbiology, immunology, and potential treatments*. Presentation at the annual meeting of the National Association of Biology Teachers, Baltimore, MD.

Bucklin, C.J. & **Daniel, K.L.** (2023, November). *ISEA Presents: Draw to learn.* Presentation at the Conference for the Advancement of Science Teaching, Houston, TX.

Saha, M., Ferguson, D., & **Daniel, K.L.** (2023, July). *A study of undergraduate students' interpretations of tree-thinking using eye movements.* Presentation at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
****Awarded Travel Funds**

Jess, C., Schobel, R., & **Daniel, K.L.** (2023, March). *Outdoor science activities allow children to explore STEM practices and the natural world in an engaging setting.* Presentation at the Texas State University STEM Conference, San Marcos, TX.

Saha, M. Ferguson, D., & **Daniel, K.L.** (2023, March). *Exploring undergraduate students' difficulties with interpretations of phylogenetic trees using eye movements*. Presentation at the Texas State University STEM Conference, San Marcos, TX.

Jess, C., Schobel, R., & **Daniel, K.L.** (2023, February). *Outdoor science activities provide participants with the engagement and enrichment of STEM techniques, learning, and the natural world.* Presentation at the annual Texas State University Biology Department Colloquium, San Marcos, TX.

Saha, M. Ferguson, D., & **Daniel, K.L.** (2023, February). *Exploring undergraduate students' difficulties with interpretations of phylogenetic trees using eye movements*. Presentation at the annual Texas State University Biology Department Colloquium, San Marcos, TX.

Jess, C., Schobel, R., & **Daniel, K.L.** (2023, February). *Outdoor science can facilitate STEM enjoyment, learning, and scientific identity.* Presentation at the annual meeting of the Informal Science Education Association of Texas, Abilene, TX.

Daniel, K.L. & Lincoln Seets, R.M. (2022, November). *Culturally responsive design techniques*. Presentation at the annual meeting of the National Association for Interpretation Conference. Cleveland, OH.

Lincoln Seets, R., & **Daniel, K.L.** (2022, March). *Build your own culturally responsive outdoor science activity.* Presentation at the annual meeting of the Texas Informal Science Education Association, Austin, TX.

Marty, B., & **Daniel, K.L.** (2022, March). *Assessing Public Perceptions of Spiders and Identifying Trends in Community Science Participation.* Presentation at the annual meeting of the Texas Informal Science Education Association, Austin, TX.

Daniel, K.L., McConnell, M., Schuchardt, A. & Peffer, M. (2022, January). *Challenges facing interdisciplinary collaboration*. Oral presentation at the annual meeting of SABER West, Irvine, CA.

Daniel, K.L. & Schuchardt, A. (2022, January). *Spotting sensemaking distinctions when visually considering equations in biology.* Roundtable presentation at the annual meeting of SABER West, Irvine, CA.

McConnell, M. & **Daniel, K.L.** (2021, November). *Exploring how a faculty member transitioned an active-learning biology course to emergency remote teaching (ERT).* Poster presentation at the annual meeting of the National Association of Biology Teachers, Atlanta, GA.

Lincoln Seets, R. & **Daniel, K.L.** (2021, November). *Influence of visual scaffolding on comprehension and completion in an outdoor elementary science inquiry.* Poster presentation at the annual meeting of the National Association of Biology Teachers, Atlanta, GA.

Galko, I., **Daniel, K.L.,** Reyes, V., Galko, K., & Idema, J. (2021, September). *Preparing families to act as stewards to combat climate change and restore ocean health.* Presentation at the IUCN World Conservation Congress 2020 Forum, Marseille, France.

Daniel, K.L. (2021, June). *Seeing the forest and the trees: Assessing tree thinking.* Presentation during the Tree Thinking: Have We Met the Challenge Society for the Study of Evolution Education Symposium, Virtual Meeting.

Ashford-Hanserd, S., **Daniel, K.L.**, Garcia, D.M., Lerma, Y., & Pedrosos, R. (2021, April). *Influences on Black and Hispanic STEM Majors' Decisions to Enroll and Persist at an HSI.* Roundtable presentation at the annual meeting of the American Educational Research Association, Virtual Meeting.

Idema, J.L., **Daniel, K.L.**, & Ocampo, D. (2021, January). *Exploring climate change messaging in virtual aquarium exhibits.* Roundtable presentation at the annual meeting of the Society for the Advancement of Biology Education Research West, Virtual Meeting.

Lincoln, R. & **Daniel, K.L.** (2021, January). *Influence of visual scaffolds on outdoor science inquiry.* Roundtable presentation at the annual meeting of the Society for the Advancement of Biology Education Research West, Virtual Meeting.

McConnell, M. & **Daniel, K.L.** (2021, January). *A case study following development and implementation of a new active learning biology course.* Roundtable presentation at the annual meeting of the Society for the Advancement of Biology Education Research West, Virtual Meeting.

Spencer, R, **Daniel, K.L.,** Forsythe, M, & Witzig, S. (2021, January). *Education and environmental mindfulness at informal learning centers.* Roundtable presentation at the annual meeting of the Society for the Advancement of Biology Education Research West, Virtual Meeting.

Reyes, V.J., Idema, J.L., & **Daniel, K.L.** (2020, April). *Family interpretation of conservation messaging.* Presentation at the TriBeta District Convention, Cedar Hill, TX. ***In person conference canceled due to COVID-19 pandemic*

Reyes, V.J., Idema, J.L., & **Daniel, K.L.** (2020, March). *Family interpretation of conservation messaging.* Poster presented at the Women in Science and Engineering, San Marcos, TX.

Ashford-Hanserd, S.N., **Daniel, K.L.**, Garcia, D., & Lee, B. (2020, February). *ACCEYSS: An evidence-based informal K-12 STEM curriculum framework for community organizations.* Poster presentation at the annual meeting of the Texas Informal Science Education Association. Waco, TX.

Idema, J.L. & **Daniel, K.L.** (2020, February). *Leaping the hurdles of data collection in informal science institutions.* Presentation at the annual conference of the Texas Informal Science Education Association, Waco, TX.

Marty, B.N. & **Daniel, K.L.** (2020, February). *Perceptions of spiders after participating in a community science activity.* Presentation at the annual conference of the Texas Informal Science Education Association, Waco, TX.

Reyes, V.J., Idema, J.L., & **Daniel, K.L.** (2020, February). *Family interpretation of conservation messaging.* Poster presented at the annual meeting of the Texas Informal Science Education Association, Waco, TX.

Mac Crossan, A.C., **Daniel, K.L.**, Oyejide, K.O., & Huertas, M. (2019, November). *Student hormonal stress responses in two learning environments.* Poster presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL.

Marty, B. & **Daniel, K.L.** (2019, November). *A research-based design approach to creating a citizen science household spider observation activity.* Poster presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL. ****Won second prize in the Four-Year College and University Section Student Poster competition.**

Nolen, Z.L. & **Daniel, K.L.** (2019, November). *Student reported benefits from participating in biology-based student organizations.* Poster presented at the annual meeting of the National Association of Biology Teachers, Chicago, IL.

Reyes, V.J., Idema, J.L., & **Daniel, K.L.** (2019, August). *Family interpretation of conservation messaging.* Poster presented at the Undergraduate Research Symposium, San Marcos, TX. ****Won first prize in the SURE Poster competition.**

Idema, J. & **Daniel, K.L.** (2019, August). *Exploring the presentation of climate change in aquarium exhibits.* Presentation at the biennial meeting of the European Science Education Research Association, Bologna, Italy.

Leone, E.A. & **Daniel, K.L.** (2019, August). *Teaching the tree of life to undergraduate students.* Presentation at the biennial meeting of the European Science Education Research Association, Bologna, Italy.

Daniel, K.L., Mac Crossan, A.C., & Huertas Pau, M. (2019, August). *Student hormonal stress responses in two learning environments. Presentation at the biennial meeting of the European Science Education Research Association,* Bologna, Italy.

Covington, B., **Daniel, K.L.**, Payne, G., Messick, J., & Serenari, C. (2019, May). *Using a social media campaign to boost the visibility of endangered toad conservation.* Poster presented at the annual meeting of the Society for Freshwater Sciences, Salt Lake City, UT.

Nolen, Z.L., & **Daniel, K.L.** (2019, February). *A step towards increasing undergraduate perceived cohesion to science.* Presentation at the 26th annual Texas State University Department of Biology Student Colloquium. San Marcos, TX.

Marty, B.N. & **Daniel, K.L.** (2019, February). *Assessing public perceptions of arachnids and identifying trends through citizen science.* Poster presentation at the annual meeting of the Texas Informal Science Education Association, Rockport, TX.

Idema, J., **Daniel, K.L.**, & Patrick, P. (2019, February). *Talking conservation: Exploring the influence of zoo educators on visitor conversations.* Poster presentation at the annual meeting of the Texas Informal Science Education Association, Rockport, TX.

Cuddeback, L. & **Daniel, K.L.** (2019, February). *Lions and tigers and teens: Investigating volunteer experiences in informal science education.* Poster presentation at the annual meeting of the Texas Informal Science Education Association, Rockport, TX.

Ashford, S., **Daniel, K.L.**, & Garcia, D. (2019, February). *Working collaboratively to improve ACCEYSS to informal STEM programming.* Poster presentation at the annual meeting of the Texas Informal Science Education Association, Rockport, TX.

Mishra, C., **Daniel, K.L.**, & Clase, K.L. (2018, December). *Understanding the role of self-reflection in a course-based undergraduate research experience.* Presentation at the annual meeting of the American Society for Cell Biology. San Diego, CA.

Guutierrez Mannix, M.P., Ashford, S., **Daniel, K.L.**, Garcia, D., & Vannella, M. (2018, November). *Factors that influence persistence among students of color in K-16 STEM education.* Presentation at the tenth annual Texas State University International Research Conference for Graduate Students. San Marcos, TX.

Nolen, Z.L., & **Daniel, K.L.** (2018, November). *Determining how biology-based student organizations meet affinity group criteria.* Poster presented at the annual national meeting of the National Association of Biology Teachers. San Diego, CA.

Salisbury, S.L. & **Daniel, K.L.** (2018, November). *Preservice teacher engagement during outdoor learning experiences.* Poster presented at the annual national meeting of the National Association of Biology Teachers. San Diego, CA.

Leone, E.A. & **Daniel, K.L.** (2018, July). *Do we really speak for the trees? Comparing instructional methods about phylogenetic tree diagrams in an introductory biology course for biology majors.* Poster presented at the annual meeting of the Society for the Advancement of Biology Education Research. Minneapolis, MN.

Nolen, Z.L., & **Daniel, K.L.** (2018, July). *Comparing perceptions of social media among biology and non-biology majors.* Roundtable presented at the annual meeting of the Society for the Advancement of Biology Education Research. Minneapolis, MN.

Salisbury, S.L., & **Daniel, K.L.** (2018, March). *Exploring engagement and views of using nature to teach science.* Poster presented at the annual Women in Science and Engineering Conference, San Marcos, TX.

Salisbury, S.L., & **Daniel, K.L.** (2018, February). *Exploring engagement and perceptions of learning science in nature.* Oral presentation at the annual Texas State University Biology Department Colloquium, San Marcos, TX.

Leone, E.A., & **Daniel, K.L.** (2017, November). *Comparing instructional approaches using the tree of life and student learning outcomes.* Poster presented at the annual national meeting of the National Association of Biology Teachers. St. Louis, MO. ****Won first prize in the Four-Year College and University Section Student Poster competition.**

Nolen, Z.L., & **Daniel, K.L.** (2017, November). *An investigation into how students perceive the use of social media in the science classroom.* Poster presented at the annual national meeting of the National Association of Biology Teachers. St. Louis, MO. ****Won third prize in the Four-Year College and University Section Student Poster competition.**

Salisbury, S. & **Daniel, K.L.** (2017, November). *Preservice teacher engagement and perceptions of informal, outdoor learning environments.* Poster presented at the annual national meeting of the National Association of Biology Teachers. St. Louis, MO. ****Won second prize in the Four-Year College and University Section Student Poster competition.**

Nolen, Z.L., & **Daniel, K.L.** (2017, November). *Measuring students' perceptions of social media in science courses.* Paper presented at the ninth annual Texas State University International Research Conference for Graduate Students. San Marcos, TX.

Daniel, K.L. & Leone, E.A. (2017, June). *Student visual interpretations of a cladogram.* Poster presented at the AP Biology Posters on the Prairie Symposium. Kansas City, MO.

Salisbury, S.L., **Daniel, K.L.**, & Thomas, A.K. (2017, April) *Harnessing the power of iPads OUTSIDE.* Poster presentation at the Women in Science and Engineering Conference. San Marcos, TX. ****Won Best Poster competition.**

Leone, E.A. & **Daniel, K.L.** (2017, April*). Identifying visual approaches to tree-thinking.* Poster presented at the 2017 Women in Science and Engineering Conference. San Marcos, TX.

Leone, E.A. & **Daniel, K.L.** (2017, February). *An investigation of tree-thinking outcomes from different instructional methods.* Oral Presentation at the annual Texas State University Biology Department Colloquium. San Marcos, TX. ****Won Best Masters Student Presentation competition.**

Salisbury, S. L., **Daniel, K. L.**, & Thomas, A. K. (2017, February) *Harnessing the power of iPads OUTSIDE.* Poster presentation at the Informal Science Education Association of Texas Annual Conference. New Braunfels, TX.

Bucklin, C.J. & **Daniel, K.L.** (2016, November). *To use or not to use a virtual lab.* Poster presented at the Walter Maxwell Gibson College of Science & Engineering Eighth Annual Undergraduate Research Symposium. Cedar City, UT.

Leone, E.A. & **Daniel, K.L.** (2016, November). *Living on a prayer? How religiosity and evolution acceptance interact in a study abroad program in Cambodia.* Paper presented at the eighth annual Texas State University International Research Conference for Graduate Students. San Marcos, TX.

Nolen, Z.L., **Daniel, K.L.**, Salinas, K., Alvarado Rodriguez, K. (2016, November). *Do students want to use social media? Assessing students' perceptions of social media in the classroom.* Paper presented at the eighth annual Texas State University International Research Conference for Graduate Students. San Marcos, TX. ****Won Best Doctoral Student Paper competition.**

Wilkes, A., French, D., **Daniel, K.L.**, & Moore, M. (2016, November). *The relationship between religiosity and acceptance of evolutionary theory among students in an introductory zoology course.* Poster presented at the annual national meeting of the National Association of Biology Teachers. Denver, CO. ****Won first prize in the Four-Year College and University Section Student Poster competition.**

Salinas, K., Alvarado Rodriguez, K., Nolen, Z.L., & **Daniel, K.L.** (2016, November). *Using investigating social media in biology in effort to increase student interest in science.* Poster presented at the annual national meeting of the National Association of Biology Teachers. Denver, CO.

Alvarado Rodriguez, K., Salinas, K., Nolen, Z.L., & **Daniel, K.L.** (2016, November). *An Investigation on how social media use impacts undergraduate interest in science careers.* Poster presented at the annual national meeting of the National Association of Biology Teachers. Denver, CO.

Leone, E.A. & **Daniel, K.L.** (2016, November). *Comparing perspectives of evolution acceptance between students from the United States and Cambodia.* Poster presented at the National Association of Biology Teachers. Denver, CO.

Nolen, Z. L., **Daniel, K. L.**, Salinas, K., & Alvarado Rodriguez, K. (2016, November). *Do students want to use social media? Assessing students' perceptions of social media in the classroom.* Poster presented at the annual national meeting of the National Association of Biology Teachers. Denver, CO.

Nolen, Z.L. & **Daniel, K.L.** (2016, July). *Creating and testing a reliable instrument for assessing students' perceptions of social media in higher education.* Poster presentation at the annual meeting of the Society for the Advancement of Biology Education Research. Minneapolis, MN.

Daniel, K.L., Leone, E.A., Komogortsev, O., & Abdulin, E. (2016, June). *Identifying visual approaches to tree-thinking.* Poster presentation at the annual Evolution Meetings. Austin, TX.

Nolen, Z.L., **Daniel, K.L.**, & Leone, E.A. (2016, February). *Using social media to increase elementary education students' perceptions and knowledge of science.* Poster presented at the 21st annual Texas State University Department of Biology Student Colloquium. San Marcos, TX.

Daniel, K.L. (2015, November). *Generating student-focused active learning environments in lecture settings.* Oral presentation at the annual meeting of the National Association of Biology Teachers, Providence, RI.

Boyce, C.J., & **Daniel, K.L.** (2015, November). *Phylogenetic word association.* Poster presented at the annual meeting of the National Association of Biology Teachers, Providence, RI.

Ubben, I., Nitz, S., Upmeier zu Belzen, A. & **Daniel, K.L.** (2015, November). *Interpreting models of evolution – The case of phylogenetic trees.* Poster presented at the annual meeting of the National Association of Biology Teachers, Providence, RI.

Mishra, C., **Daniel, K.L.,** & Clase, K.L. (2015, November). *Role of reflexivity on students' outcomes in a college science laboratory course.* Poster presented at the annual meeting of the National Association of Biology Teachers, Providence, RI.

Mraz, J.M., **Daniel, K.L.,** & Thomas, A.K. (2015, November). *OUTSIDE naturalist development workshop: Identities of participants and their relation to volunteer motives.* Poster presented at the annual meeting of the National Association of Biology Teachers, Providence, RI.

St. Clair, A., **Daniel, K.L.,** & Thomas, A.K. (2015, November). *How naturalists use mobile technology to support participation during a nature hike.* Poster presented at the annual meeting of the National Association of Biology Teachers, Providence, RI.

Boyce, C.J., **Halverson, K.L.,** & Thomas, A.K. (2015, May). *Engaging students in outside science learning.* Oral presentation at VI-EPSCoR Conference, St. Thomas, VI.

Thomas, A.K., McWhorter, M.S., & **Halverson, K.L.** (2014, November). *Professional development for naturalists-in-training.* Poster presented at the annual meeting of the National Association of Biology Teachers, Cleveland, OH.

Mishra, C., **Halverson, K.L.**, & Gearity, B.T. (2014, November). *Investigating the impacts of an international STEM service-learning course on college students.* Poster presented at the annual meeting of the National Association of Biology Teachers, Cleveland, OH. ****Won third prize in the Four-Year College and University Section Student Poster competition.**

Mraz, J.A., Mishra, C., **Halverson, K.L.**, Boyce, C.J., & Ali, L. (2014, November). *An authentic undergraduate research experience: Development and maintenance of student identities.* Poster presented at the annual meeting of the National Association of Biology Teachers, Cleveland, OH.

Jenkins, K., Mead, L., **Halverson, K.L.**, Baum, D., & Boyce, C.J. (2014, November). *Seeing the forest by interpreting the trees: An assessment instrument for evaluating undergraduate student understanding of evolutionary trees.* Poster presented at the annual meeting of the National Association of Biology Teachers, Cleveland, OH.

Mead, L., Baum, D. Jenkins, K., & **Halverson, K.L.** (2014, June). *Seeing the forest by interpreting the trees: An assessment instrument for evaluating undergraduate student understanding of evolutionary trees.* Poster presentation at the annual meeting of the Society for the Study of Evolution, Raleigh, NC.

Mraz, J., Boyce, C.J., **Halverson, K.L.**, & Clase, K.L. (2013, November). *Student reflections on using the virtual learning environment second life in combination with classroom instruction*. Poster presented at the annual meeting of the National Association of Biology Teachers, Atlanta, GA.

McWhorter, M.S., Thomas, A.K., & **Halverson, K.L.** (2013, November). *A quantitative analysis of a hike in the woods: Preliminary results of what students learn OUTSIDE.* Poster presented at the annual meeting of the National Association of Biology Teachers, Atlanta, GA. ****Won third prize in the Four-Year College and University Section Student Poster competition.**

Boyce, C.J., Mishra, C., **Halverson, K.L.**, & Thomas, A.K. (2013, November). *Investigating students' use of technology to explore nature.* Poster presented at the annual meeting of the National Association of Biology Teachers, Atlanta, GA.

Samuel, J.Y. & **Halverson, K.L.** (2013, July). *Middle school teachers' experiences and viewpoints of visualizations as an instructional tool.* Poster presented at the biennial meeting of the Gordon Research Conference –Visualizations in Science and Education, Smithfield, RI.

Saleh, M.R., **Halverson, K.L.**, Gearity, B. (2013, July). *Moving students to a better understanding of enzyme specificity.* Poster presented at the biennial meeting of the Gordon Research Conference –Visualizations in Science and Education, Smithfield, RI.

Clase, K., **Halverson, K.L.,** Boyce, C.J., Heyden, R., Rickus, J., Klyczek, K., Mogen, K., Bonilla, J. (2013, July). *Building faculty and student collaborations with virtual learning environments.* Poster presented at the biennial meeting of the Gordon Research Conference –Visualizations in Science and Education, Smithfield, RI.

Clase, K., **Halverson, K.L.,** Boyce, C.J., Heyden, R., Rickus, J., Klyczek, K., Mogen, K., & Bonilla, J. (2013, July). *Developing a research community to enhance student learning and engagement through the use of emerging technologies.* Poster presented at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.

Boyce, C.J. & **Halverson, K.L.** (2013, March). *Word association and mental recall: An evolution formative assessment.* Poster presentation at the Graduate Student Research Symposium, Hattiesburg, MS. ****Won Department Award, Graduate Student Research Symposium Student Poster competition.**

McLaurin, D.C, **Halverson, K. L.**, & Boyce, C. J. (2013, March). *Using Manipulative Models to Develop Tree Thinking*. Poster presented at Statewide Inaugural Collaborative Honors College Conference, Starkville, MS. ****Won Visual Display Award for the Social Sciences Division.**

McLaurin, D.C, **Halverson, K. L.**, & Boyce, C. J. (2013, February). *Using Manipulative Models to Develop Tree Thinking*. Paper presented at Louis Stokes Mississippi Alliance for Minority Participation Research Symposium, Jackson, MS.

McLaurin, D.C, **Halverson, K. L.**, & Boyce, C. J. (2012, November). *Using Manipulative Models to Develop Tree Thinking*. Poster presentation at 13th Annual McNair Scholars Research Symposium, Hattiesburg, MS.

McLaurin, D.C, **Halverson, K. L.**, & Boyce, C. J. (2012, November). *Using Manipulative Models to Develop Tree Thinking*. Poster presentation at 21st Annual Ronald E. McNair Research Conference and Graduate Fair, Lake Geneva, WI.

Treagust, D.F., Tsui, C.-Y., Yarden, A., Griffard, P., **Halverson, K.L.**, Shoenborn, K., Schwartz, R.S., Wong, S.L., Buckley, B.C., Niebert, K., & Anderson, T. (2012, March). Strand Sponsored Session – *How best can multiple external representations be harnessed for improving learning in biology?* Oral presentation at the annual meeting of the National Association for Research in Science Teaching, Indianapolis, IN.

Clase, K.L., **Halverson, K.L.,** Rickus, J., & Heyden, R. (2012, April). *Integrating emerging technologies into formal education for assessment*. Oral presentation at the annual meeting for Experimental Biology, San Diego, CA.

Halverson, K.L. & Boyce, C.J. (2011, October). C*itizen science and society.* Oral presentation at the annual meeting of the National Association of Biology Teachers, Anaheim, CA.

Clase, K.L., **Halverson, K.L.**, Heyden, R. (2011, July). *Immersing STEM students into an interactive virtual experience using Second Life to visualize genomes.* Poster presentation at the biennial meeting of the Gordon Research Conference –Visualizations in Science and Education, Smithfield, RI.

Maroo, J.D., & **Halverson, K.L.** (2011, April). *Tree thinking: A branch of mental rotation.* Poster presented at the Student Research Colloquium, Hattiesburg, MS.

Maroo, J.D., Boyce, C.J., & **Halverson, K.L.** (2011, March). *Student responses influenced by task order on a tree thinking pretest.* Poster presented at the Graduate Student Research Symposium, Hattiesburg, MS. ****Won Department Award, Graduate Student Research Symposium Student Poster competition.**

Singletary, L., Bruni, A., & **Halverson, K.L.** (2011, February). *A look at college students' remembering and understanding of DNA, genes, traits, and proteins and how these concepts relate to one another.* Oral presentation at the annual meeting of the Mississippi Academy of Sciences, Hattiesburg, MS.

Maroo, J.D., Johnson, S.L., & **Halverson, K.L.** (2011, February). *Identifying college students' alternative ideas about cellular respiration.* Poster presented at the annual meeting of the Mississippi Academy of Sciences, Hattiesburg, MS.

Boyce, C.J, & **Halverson, K.L.** (2011, February). *Examining the impact of task order on a tree thinking pretest.* Poster presented at the annual meeting of the Mississippi Academy of Sciences, Hattiesburg, MS.

Planchard, M., **Halverson, K.L.,** Maroo, J. & McLean, T. (2010, November). *Why do students do their homework (or not)? An exploration of student motivation in an undergraduate genetics course.* Poster presented at the annual meeting of the National Association of Biology Teachers, Minneapolis, MN.

Maroo, J., Johnson, S., & **Halverson, K.L.** (2010, November). *Identifying college students' alternative ideas about cellular respiration.* Poster presented at the annual meeting of the National Association of Biology Teachers, Minneapolis, MN.

Boyce, C.J., & **Halverson, K.L.** (2010, November). *Examining the impact of task order on a tree thinking pretest.* Poster presented at the annual meeting of the National Association of Biology Teachers, Minneapolis, MN. ****Won Vernier Student Travel Award to present research at the Four-Year College and University Section Student Poster competition.**

Halverson, K.L. (2009, November). *Pipe cleaner phylogeny: Tree thinking made easy.* Oral presentation presented at the annual meeting of the National Association of Biology Teachers, Denver, CO.

Halverson, K.L., Abell, S.K., Friedrichsen, P.M., & Pires, J.C. (2009, July). *Understanding how undergraduates make sense to a visual approach to plant systematics.* Poster presentation at the biennial meeting of the Gordon Research Conference –Visualizations in Science and Education, Oxford, UK.

Krueger, J., Lloyd, E., Siegel, M., Wissehr, C., & **Halverson, K.L.** (2009, April). *Equitable science assessments for English language learners.* Poster presented at Undergraduate Research Day at the Capitol, Jefferson City, MO.

Halverson, K.L. (2008, October). *Using hypothetical flowering plants to develop fundamental phylogenetic tree-reading and tree-building skills*. Oral presentation at the annual meeting of the National Association of Biology Teachers, Memphis, TN.

Lankford, D.M., & **Halverson, K.L.** (2008, October) *Five steps: Developing problem-based learning lessons to investigate biology concepts.* Oral presentation at the annual meeting of the National Association of Biology Teachers, Memphis, TN.

Halverson, K.L., Siegel, M.A., Clark, C., & Freyermuth, S. (2008, October) *What do undergraduates misunderstand about stem-cell research?* Oral presentation at the annual meeting of the National Association of Biology Teachers, Memphis, TN.

Halverson, K.L., Pires, J.C., & Abell, S.K. (2008, June). *"Tree thinking" issues: Undergraduates' reasoning about phylogenies.* Oral presentation at the annual meeting of the Society for the Study of Evolution, Minneapolis, MN.

Halverson, K.L., Nason, J.D., & Stireman, J.O. (2008, February). *Plant polyploidy effects on goldenrod insect herbivores*. Poster presented at Evolution at work: Celebrate Charles Darwin's contributions to biology on his 199th birthday, Columbia, MO.

Halverson, K.L. (2007, November). *It's getting hot in here.* Oral presentation at the annual meeting of the National Association of Biology Teachers Conference, Atlanta, GA.

Halverson, K.L., Siegel, M.A., & Freyermuth, S.K. (2007, October). *Using biotechnology research to teach biology to undergraduates.* Oral presentation at the annual meeting of the Association of College and University Biology Educators, Dubuque, IA.

Halverson, K.L., & Lankford, D.M. (2007, April). *Science galls me: What is a niche anyway?* Oral presentation at the annual meeting of the National Science Teachers Association Conference, St. Louis, MO.

Halverson, K.L., et al. (2007, February). *Learning dialogues: Teachers, tutors, students, staff*. Oral presentation at the Teacher Renewal Conference, Columbia, MO.

Halverson, K.L., Nason, J.D., & Stireman, J.O. (2005, April). *Plant polyploidy effects on goldenrod insect herbivores*. Poster presented at the annual meeting of the Center for Community Genetics 2005 Symposium, Minneapolis, MN.

Halverson, K.L., Nason, J.D., & Stireman, J.O. (2005, April). *Plant polyploidy effects on goldenrod insect herbivores*. Poster presented at the Women in Biological Sciences Symposium, Ames, IA.

Halverson, K.L. (2004, December). *Polyploidy as a source of herbivore resistance in tall goldenrods (Solidago altissima)*. Oral presentation at the Community Ecology Seminar, Ames, IA.

Halverson, K.L. (2004, November). *Polyploidy as a source for non-uniform host use as seen with phytophagous insects on tall goldenrods (Solidago altissima)*. Oral presentation at the Brown Bag Seminar Series, Ames, IA.

Halverson, K.L. (2004, June). *Plant polyploidy effects on goldenrod insect herbivores*. Oral presentation at the annual meeting of the Society for the Study of Evolution, Fort Collins, CO.

Gifford, M., **Halverson, K.,** Hawley, M., & Donnelly, K. (1998, December). *Investigations into the effects of riparian vegetation on aquatic invertebrates.* Oral presentation at the Ecology Seminar, Westminster College, Fulton, MO.

2. Invited Talks, Lectures, and Presentations:

Daniel, K.L. (2025, August). *Can You Spot the Danger: Identifying Plants.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2025, August). *Exploring the Curious World of Plant Galls: Good Gall-y.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2025, August). *Volunteers as Teachers.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2025, April). *Sharing the Stories of Science.* Oral presentation for the University of Texas General Teaching Seminar, Austin, TX.

Daniel, K.L. & Zipperer, J. (2025, February). *Volunteers as Teachers.* Oral presentation for the Highland Lakes Master Naturalists Training Course, Burnet, TX.

Daniel, K.L. & Zipperer, J. (2025, February). *Volunteers as Teachers.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2025, February). *Can you Spot the Danger: Identifying Plants.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2024, October). *Volunteers as Teachers.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2024, October). *Can You Spot the Danger: Identifying Plants.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2024, February). *Plants 101.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2024, January). *Volunteers as Teachers.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2024, January). *Building the Next Generation of Biologists by Increasing Representation.* Oral presentation for the University of Texas Arlington, Arlington, TX.

Daniel, K.L. (2023, August). *Volunteers as Teachers.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2023, February). *Can you Spot the Danger: Identifying Plants.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2022, September). *Building the next generation of biologists by increasing representation.* Oral presentation for the TXST Biology Department, San Marcos, TX.

Daniel, K.L. (2022, January). *Introductory principles of ecology.* Oral presentation for the Hays Country Master Naturalist Training Class, San Marcos, TX.

Daniel, K.L. (2022, January). *Intro to plants and naming.* Oral presentation for the Hays Country Master Naturalist Training Class, San Marcos, TX.

Daniel, K.L. (2022, January). *Volunteers as teachers.* Oral presentation for the Hays Country Master Naturalist Training Class, San Marcos, TX.

Daniel, K.L. (2021, December). *Using eye-tracking to better understand student thinking.* Oral presentation for the Biology Teaching and Learning Departmental Meeting, Minneapolis, MN.

Daniel, K.L. (2021, October). *An introduction to eye-tracking methods for science education sensemaking research.* Oral presentation for the Schuchardt Research Group Meetings, Minneapolis, MN.

Daniel, K.L. (2021, August). *Talking with the public about phytoremediation.* Oral presentation for the Floods and Phytoremediation Forum, Kingwood, TX.

Daniel, K.L. (2021, July). *Academic research posters: A refresher.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2021, June). *How to present an academic research poster.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2021, June). *Communicating science to the general public.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2021, February). *Can you spot the danger?* Virtual presentation for the Hill Country Chapter of the Native Plant Society of Texas, San Marcos, TX.

Daniel, K.L. (2020, June). *Communicating science to the general public.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.
**Presentation moved to virtual format due to COVID-19 pandemic.*

Daniel, K.L. (2019, September). *Galls: A plant-insect interaction.* Oral presentation for the Texas Outdoor Women Network, San Marcos, TX.

Daniel, K.L. (2019, May). *How to present an academic research poster.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2019, May). *Communicating science to the general public.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2019, April). *All About Plant: Botany 101.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2019, April). *Science practitioners engaging in and explaining research as scholars (SciencePEERS).* Oral presentation for the Interdisciplinary Colloquium Series for the Kaput Center for Research and Innovation in STEM Education, Dartmouth, MA. http://kaputcenter.org/2019/04/2018-2019-colloquium-series-kristy-daniel/

Daniel, K.L. (2018, April). *The biologist of tomorrow.* Panelist presentation for the Toward a Vision of Diversity in Science and Society symposium, San Marcos, TX.

Daniel, K.L. (2018, May). *Communicating science to the general public.* Oral presentation for the STEM Undergraduate Research Experience workshop, San Marcos, TX.

Daniel, K.L. (2017, April). *All About Plant: Botany 101.* Oral presentation for the Hays County Master Naturalists Training Course, San Marcos, TX.

Daniel, K.L. (2016, November). *Giving scientific presentations.* Oral presentation for the Wildlife Society Student Chapter Undergraduate Research Meeting. San Marcos, TX.

Daniel, K.L. (2016, October). *Seeing to Learn: Investigating Visual Approaches to Interpreting Diagrams.* Oral presentation for the University of Texas Tyler Department of Biology Seminar Series, Tyler, TX.

Daniel, K.L. (2015, February). *Capturing phylogenetic learning gains in the university classroom.* Oral presentation for the Department of Biology at Texas State University, San Marcos, TX.

Halverson, K.L. (2014, October). *Engaging students in OUTSIDE science learning.* Oral presentation for the Department of Biological and Molecular Biology at Montclair State University, Montclair, NJ.

Halverson, K.L. (2014, September). *Engaging students in OUTSIDE science learning.* Oral presentation at the USM Biological Sciences Departmental Seminar Series, Hattiesburg, MS.

Halverson, K.L. (2014, August). *Over, under, and through: Students informally discover the environment.* Poster presentation at the National Science Foundation Advancing Informal STEM Learning Program Principal Investigator Meeting, Washington, D.C.

Halverson, K.L. (2014, February). *Seeing the forest for the trees: Using tree-thinking to understand evolution.* Oral presented during the Darwin Day Teaching Workshop, USM, Hattiesburg, MS.

Boyce, C.J., Mishra, C., **Halverson, K.L.**, & Thomas, A.K. (2013, November). *Exploring students' connections with nature & technology.* Oral presentation at the E3 Seminar, USM, Hattiesburg, MS.

Clase, K., **Halverson, K.L.**, Heyden, R., & Rickus, J. (2013, August). *Multidisciplinary effort to address education in new biology.* Oral presentation at the AAAS sponsored conference Vision & Change in Undergraduate Biology Education, Washington, DC.

Halverson, K.L. & Thomas, A. (2012, November). *Creating OUTSIDE learning opportunities at the Lake Thoreau Environmental Center.* Oral presentation at the E3 Seminar, USM, Hattiesburg, MS.

Halverson, K.L. & Clase, K. (2012, November). *Exploring the possibilities of new Collaborations and Virtual Learning Environments.* Oral presentation at the PIBERG Seminar, Purdue University, West Lafayette, IN.

Halverson, K.L. (2012, September). *Play to learn phylogenetics in the classroom.* Oral presentation at the Department of Coastal Sciences Seminar Series, USM Gulf Coast Research Lab, Ocean Springs, MS.

Halverson, K.L. (2012, September). *Play to learn phylogenetics in the classroom.* Oral presentation at the Department of Biological Sciences Seminar Series, Mississippi State, Starkville, MS.

Clase, K.L., Boyce, C.J., Ha, S.J., **Halverson, K.L.**, Heyden, R., & Rickus, J. (2012, June). *Promoting systems thinking through an authentic research environment.* Oral presentation at Introductory Biology Project (IBP) Summer Conference: Implementing Vision and Change at the Introductory Biology Level, Washington D.C.

Halverson, K.L. (2011, November). *Mirror, mirror on the wall, who's learning through service most of all?* Oral presentation at the E3 Seminar, USM, Hattiesburg, MS.

Mower, T., & **Halverson, K.L.** (2011, October). *Research Committee Workshop.* Oral presentation at the National Association of Biology Teachers, Anaheim, CA.

Halverson, K.L. (2011, August). *Motivating students to learn and think.* Oral presentation at the College of Science and Technology Teaching Assistant Workshop, USM, Hattiesburg, MS.

Halverson, K.L. (2010, September). *Research and career opportunities in biology education.* Oral Presentation at the First Year Foundations Biology Course, Hattiesburg, MS.

Halverson, K.L. (2008, December). *Making sense of phylogenetic representations: Understanding undergraduates' ideas about tree thinking*. Oral presentation at the Department of Biological Sciences Seminar Series, Hattiesburg, MS.

Halverson, K.L. (2008, November). *A dissertation path from pilot to pub: A study of undergraduates' understanding of biological representations.* Oral presentation at the Science and Mathematics Education Colloquium, Columbia, MO.

Pires, J.C., & **Halverson, K.L.** (2008, November). *Darwin's neglected idea: How does evolution prune the family tree?* Oral presented at Saturday Morning Science, Columbia, MO.

3. Consultancies:

College Board, Educational Testing Services 2021
Research Consultant, *Quantitative Assessment: Diagnostics Instrument Development for Tree-Thinking.* Duke University & National Evolutionary Synthesis Center 2013
Assessment Consultant, Linn State Technical College 2011
Graphic Content Consultant, New England Aquarium Evolution of Fishes Panel 2011

4. Workshops:

Synchronous workshop (Group 1) for The Engaged Study. (2025, December) National Institute of Health Spring Term Workshop, Zoom.
National Association for Interpretation Certified Interpretive Guide Workshop (GI082525). (2025, Aug-Nov). Texas State University, San Marcos, TX.
Synchronous workshop (Group 4) for The Engaged Study. (2025, January) National Institute of Health Spring Term Workshop, Zoom.
Synchronous workshop (Group 3) for The Engaged Study. (2024, December) National Institute of Health Spring Term Workshop, Zoom.

Synchronous workshop (Group 2) for The Engaged Study. (2024, December) National Institute of Health Spring Term Workshop, Zoom.

Synchronous workshop (Group 1) for The Engaged Study. (2024, December) National Institute of Health Spring Term Workshop, Zoom.

National Association for Interpretation Certified Interpretive Guide Workshop (GI082624). (2024, Aug-Nov). Texas State University, San Marcos, TX.

Synchronous workshop (Group 7) for The Engaged Study. (2024, August) National Institute of Health Fall Term Workshop, Zoom.

Synchronous workshop (Group 6) for The Engaged Study. (2024, August) National Institute of Health Fall Term Workshop, Zoom.

Synchronous workshop (Group 5) for The Engaged Study. (2024, August) National Institute of Health Fall Term Workshop, Zoom.

Synchronous workshop (Group 4) for The Engaged Study. (2024, August) National Institute of Health Fall Term Workshop, Zoom.

National Association for Interpretation Certified Interpretive Guide Workshop for Minding the Hill Country (GI112823D). (2023, November). Texas State University and Hays County Master Naturalist Workshop, San Marcos, TX.

National Association for Interpretation Certified Interpretive Guide Workshop for Minding the Hill Country (GI101422). (2022, October). Texas State University and Hays County Master Naturalist Workshop, San Marcos, TX.

National Association for Interpretation Certified Interpretive Guide Workshop for Minding the Hill Country (GI050922). (2022, May). Texas State University and Hays County Master Naturalist Workshop, San Marcos, TX.

Bridging Disciplines to Bring Research into Biology Classrooms. (2021, November). National Association of Biology Teachers. Atlanta, GA.

Qualitative Research Question + Data Analysis. (2021, March). Thomas Lab at the University of Loyola-New Orleans, New Orleans, LA. **Workshop presented virtually due to COVID-19 pandemic.*

ACCEYSS Fall Summit: Closing the STEM Equity Gap in Black and Brown Communities. (2020, November). San Marcos, TX. **Workshop presented virtually due to COVID-19 pandemic.*

Minding the Hill Country Volunteer Advanced Training: Spider Friends and Good Gall-y. (2020, July). Hays County Master Naturalist Project-Specific Workshop, San Marcos, TX. **Workshop presented virtually due to COVID-19 pandemic.*

Improving science education through interdisciplinary collaborations between learning sciences and discipline-based education research: A workshop for new and established interdisciplinary researchers. (2020, June). International Conference of the Learning Sciences. Nashville, TN. **Workshop presented virtually due to COVID-19 pandemic.*

9th Annual USDA Caminos Graduate Fellows Career Preparation Institute Science Communication Workshop. (2020, March). American Association of Hispanics in Higher Education (AAHHE), Costa Mesa, CA.

NABT Student Workshop: Poster Presentation Practice Session. (2019, November). National Association for Biology Teachers, Chicago, IL.

ACCEYSS Fall Summit. (2019, October). Star Park, San Marcos, TX.

8th Annual USDA Caminos Graduate Fellows Career Preparation Institute Science Communication Workshop. (2019, February). American Association of Hispanics in Higher Education (AAHHE), Costa Mesa, CA.

7th Annual USDA Caminos Graduate Fellows Career Preparation Institute Science Communication Workshop. (2018, March). American Association of Hispanics in Higher Education (AAHHE), Irvine, CA.

ACCEYSS Fall Summit. (2018, October). San Marcos, TX.
RADIANS Workshop: Nature of Science. (2017, October). Texas State University, San Marcos, TX.
Faculty Showcase: Do Your Students Get It? Find out with Student Response Systems. (2016, November). Texas State University, San Marcos, TX.
OUTSIDE Professional Development Workshop for Naturalist Volunteers: Explore the Plants. (2014, January). Lake Thoreau Environmental Center, Hattiesburg, MS.
OUTSIDE Professional Development Workshop for Naturalist Volunteers: Meet the Wildlife. (2013, September). Lake Thoreau Environmental Center, Hattiesburg, MS.
Mississippi Science Olympiad Coaches Workshop. (2013, September). Hattiesburg, MS.
OUTSIDE Professional Development Workshop for Naturalist Volunteers: Walk the Trail. (2013, January). Lake Thoreau Environmental Center, Hattiesburg, MS.
Mississippi Science Olympiad Coaches Workshop. (2012, September). Hattiesburg, MS.

5. <u>Other Works not in Print:</u>

a. Works "submitted" or "under review"

Thomas, A.K., Mraz-Craig, J.A., Bucklin, C.J., Jess, C., Zipperer, J. & **Daniel, K.L.** (Under Review – 2025). From interest to expertise: Exploring motivation, identity, and career connection in naturalist development programs. *Submitted to Journal of Interpretation Research*.

Saha, M., Ferguson, D.G., Marcroft, T., & **Daniel, K.L.** (Under Review – December 2025). Viewing trees: An investigation into how students visually interact with phylogenetic trees. *Submitted to EvoDevo.*

Lincoln Seets, R.M., Forsythe, M., Williamson, P. & **Daniel, K.L.** (Under Review – Jun 2022). Influence of visual scaffolding on science practices in an elementary outdoor science investigation. *Submitted to Journal of Outdoor and Environmental Education.*

Ashford-Hanserd, S., **Daniel, K.L.**, Garcia, D.M., & Lerma, Y. (Under Review – Dec 2024). Influences on historically underrepresented minority STEM majors' decisions to enroll and persist at a Hispanic Serving Institution. *Submitted to Journal for STEM Education Research.*

b. Works "in progress"

Ferguson, D., Leone, E.A., Saha, M., Bucklin, C.J. & **Daniel, K.L.** (In Revision). Religiosity, young Earth views, and tree-thinking predict evolution acceptance. *To be submitted to Evolution Education and Outreach.*

Reyes, V., Idema, J., & **Daniel, K.L.** (In preparation). Family interpretations of conservation messaging presented in an aquarium. *To be submitted to Visitor Studies.*

McConnell, M., **Daniel, K.L.**, Williamson, P.S., & Davenport, R.A. (In Revision – Dec 2021. Exploring how a faculty member transitioned an active-learning biology course to emergency remote teaching. Submitted to *Journal of College Science Teaching*.

Salisbury, S., Forsythe, M., & **Daniel, K.L.** (In Revision). Preservice teachers' engagement during an outdoor informal science learning experience. S*ubmitted to Journal of Science Teacher Education*.

Marty, B.N., **Daniel, K.L.** & Maroo, J. (In Revision). Public perceptions of spiders and identifying trends in citizen science participation. *Submitted to Citizen Science in Higher Education.*

Idema, J.L., & **Daniel, K.L.** (In preparation). Communicating climate change: Exploring the use of a socioscientific issue through aquarium exhibits. *To be submitted to the Journal of Interpretation Research.*

Idema, J.L., Ocampo, D., Forsythe, M.E., & **Daniel, K.L.** (In preparation). Climate change in a virtual world: Exploring socioscientific issue communication in online aquarium exhibits. *To be submitted to the Journal of Informal Science Education Research.*

Serenari, C., Pratt, E.N., Meeks, A. & **Daniel, K.L.** (In prep, revision – Jul 2023). Stewardship ideology influences hunters' acceptability of changes to alligator hunting season changes.

C. <u>Funding, Grants and Contracts</u>

1. Funded External Grants and Contracts:

American Society of Plant Biologists, Plant Biology Learning Objectives, Outreach Materials & Education (BLOOME) Award (September 1, 2025-August 31, 2026). *Plant Protectors: Enriching Elementary Plant Biology Education by Integrating Outdoor Science Inquiry*. PI: **Daniel, K.L.**, Co-PIs: Bucklin, C.J. & Godfrey, A. (TXST **<u>$8,500</u> Total**)

Jester King, Roughhouse Brewery, & Shady Llama Community Science Outreach Award. (May 2025-March 2027). *Third Spaces Community Partnership - Seasons of Science.* PI: Bucklin, C.J., Co-PI: **Daniel, K.L.** (TXST; Research Participant Support: **<u>$7,200</u> Total**).

Willett Foundation, Firefly Grant. (September 2024-August 2025). *Volunteer Project #1903 Research Rangers*. PI: **Daniel, K.L.** (TXST **<u>$1,321</u> Total**).

Roughhouse Brewery & Shady Llama Community Science Outreach Award. (June 2024-April 2025). *Seasons of Science.* PI: Bucklin, C.J., Co-PI: **Daniel, K.L.** (TXST; Research Participant Support: **<u>$1,000</u> Total**).

National Institute of Health, Research in Interventions that Promote the Careers of Individuals in the Biomedical Research Enterprise (R01/R35). (August 15, 2023-August 14, 2028). *Supporting Student Agency in Undergraduate Biomedical Education*. (Award #1R01GM147147-01A1). PI: Patall, E., Co-PIs: Awad, G., Fong, C. Aguilar, S. Cokley, K., Bancroft, C., McKay, T., **Daniel, K.L.**, & Pituch, K. (University of Southern California $1,712,824 + University of Michigan $869,231 + TXST $591,655 603,539 + Arizona State University $89,694 = **<u>$3,263,404</u> Total**).

National Science Foundation, Science, Technology, Engineering, and Mathematics (STEM) Education Postdoctoral Research Fellowships (STEM Ed PRF). (January 2023-December 2025). *Modeling tree-thinking: Conceptions of evolutionary relatedness and other factors' influence on phylogenetic tree interpretation.* (Award #2222586). PI: Marcroft, T./**Daniel, K.L.** (TXST **<u>$300,000</u> Total**).

Willett Foundation, Firefly Grant. (April 2022-March 2023). *Volunteer Project #1903 Minding the Hill Country*. PI: **Daniel, K.L.** (TXST **$1,080** + $4,700 Matched Costs = **<u>$5,780.00</u> Total**).

Gulf Research Program Early-Career Research (ECR) Fellowship. (September 2021-August 2023). PI: Fuess, L., Mentor: **Daniel, K.L.** (TXST **$76,000 Total**).

Texas Parks and Wildlife Department, Section 6 Nontraditional Grant. (January 2021-December 2023). *Testing Communication Strategies to Increase Houston Toad Safe Harbor Agreement Enrollment.* (Award #CA-0001016). PI: Serenari, C., Co-PI: Rubino, E.C., & **Daniel, K.L.** (TXST **$105,000 Total**).

National Science Foundation, Division of Biological Infrastructure - Undergraduate Biology Education. (June 2020 – December 2021). *Enhancing Biology Education Research by Bridging Disciplinary Boundaries between Discipline-Based Education Research in Biology and Learning Sciences* (Award #2017278). PI: Peffer, M., Co-Organizers: **Daniel, K.L.** & Schuchardt, A. (U. of Colorado at Boulder **$49,745 Total**).

Beta Beta Beta Research Foundation (November 2019 – May 2020). *Family Interpretations of Conservation Messaging Presented in an Aquarium.* PI: **Daniel, K.L.,** Investigator: Reyes, V. (TXST **$350 Total**).

National Science Foundation, Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (2019). *NSF INCLUDES DDLP - ACCEYSS: Association of Collaborative Communities Equipping Youth for STEM Success*. PI: Ashford, S., Co-PIs: **Daniel, K.L.**, Garcia, D.M., & Masino, A. (TXST **$14,999** Supplemental Funding).

Texas Parks and Wildlife Department Wildlife Diversity Program Conservation License Plate Grant. (October 2018-August 2019). *Investigating Factors Influencing Recruitment into the Houston Toad Safe Harbor Agreements.* PI: Serenari, C., Co-PIs: **Daniel, K.L.** and Forstner, M.R. (TXST **$29,127 Total**).

National Science Foundation, Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science. (December 2017-November 2020). *ACCEYSS (Association of Collaborative Communities Equipping Youth for STEM Success).* (Award #1764404). PI: Ashford, S., Co-PI: **Daniel, K.L.** & Garcia, D. (TXST **$299,536 Total**).

Travis Audubon Society & Commons Ford Prairie Committee Vegetation Surveys and Recording Data at the Commons Ford Prairie. (September 2017-May 2020). *Texas State Galling Insect Survey of Commons Ford Prairie.* PI: **Daniel, K.L.** (TXST; Unrestricted Access Approval).

National Science Foundation, Informal Science Education. (September 2012-August 2015). *Over, Under and Through: Students Informally Discover the Environment (OUTSIDE)* (Award #1224051). PI: **Halverson, K.L.**, Subaward: Thomas, A.K. (USM **$250,001 Total**).

National Science Foundation, Course, Curriculum, and Laboratory Improvement. (January 2009-December 2013). *Show-me the Evolution! Assessing Effectiveness of a New Teaching Resource* (Award # 0837015). PI: Smith, K., Co-PI: Jenkins, K., Consultant: **Halverson, K.L.** (Duke $150,000 (includes subaward to USM $5572) = **$150,000 Total**).

Howard Hughes Medical Institute. (April 2013). *Understanding how student thinking changes when provided instruction in an authentic research environment within a systems biology project*. PI: Clase, K.L; Co-PI: **Halverson, K.L.** (Purdue **$3850 Total**).

Sigma Xi Delegate Grant Program. (November 2011). Sigma Xi international scientific research society covers travel expenses to attend the annual meeting as a voting delegate. (USM **$1150 Total**).

National Science Foundation, Gordon Research Conference Visionary Grant. (October 2009-August 2010). *Constructing an immersive and interactive virtual experience for biology students linking Second-Life and the Gene-to-Protein Viewer.* PI: Clase, K.L.; Co-PIs: **Halverson, K.L.** & Heyden, R. (USM $3700, Purdue $2300 = **$6000 Total**).

2. Other External Funding Received

Bobcat Blend. (2026). Spring *Season Sponsor* for Research Rangers and Seasons of Science. Co-PIs: Bucklin, C.J. & **Daniel, K.L**. (**$300**).

Texas Wildlife Association. (2025). Winter *Season Sponsor* for Research Rangers and Seasons of Science. Co-PIs: **Daniel, K.L**. & Bucklin, C.J. (**$300**).

Comal Conservation. (2025). Winter *Season Sponsor* for Research Rangers and Seasons of Science. Co-PIs: Bucklin, C.J. & **Daniel, K.L**. (**$300**).

Public Donations [gift]. (2025). Seasons of Science and Research Rangers Outreach. Co-PIs: **Daniel, K.L**. & Bucklin, C.J. (**$6,206**).

Wimberley United Methodist Church. (2025). Fall *Season Sponsor* for Research Rangers and Seasons of Science. Co-PIs: **Daniel, K.L**. & Bucklin, C.J. (**$300**).

Public Donations [gift]. (2024). Seasons of Science and Research Rangers Outreach. Co-PIs: **Daniel, K.L**. & Bucklin, C.J. (**$792**).

3. Submitted, but not Funded, External Grants and Contracts:

National Science Foundation, Growing Research Access for Nationally Transformative Economic Development (GRANTED). (2026, January). *Building Research Area Networks to Increase Institutional Capacity for Funded Research (#293446).* PI: Paulson, E., Co-PIs: **Daniel, K.L.** & Huling, L. (TXST $2,281,306). **PENDING**

National Science Foundation, Improving Undergraduate STEM Education (IUSE). (2026, January). *Research Rangers* (#2613729). PI: **Daniel, K.L**., Co-PIs: Bucklin, C.J. & Mauger, L. (TXST $400,000). **PENDING**

National Science Foundation. Scholarship in Science, Technology, Engineering, and Mathematics (S-STEM). (2025, March). *S-STEM: Institutional Change to Enhance Life Sciences Doctoral Programs (ICE Doc)* (#2527321). PI: Bucklin, C., Co-PIs: Giuffre, P., **Daniel, K.L.**, & Martina, J. (TXST $2,000,000).

National Science Foundation, Advancing Informal Science Learning (AISL). (2025, January). *Research Rangers* (#2517180). PI: **Daniel, K.L.**, Co-PIs: Bucklin, C. & Forsythe, M. (TXST $1,999,564).

National Science Foundation, Advancing Informal Science Learning (AISL). (2025, January). *S-Collaborative Research: Empowering Multicultural Bridges for Responsive and Adaptive Informal Science Education (EMBRAISE)* (#2517059). PI: Bucklin, C.J. Co-PIs: **Daniel, K.L.**, & PI: Mauger, L., Co-PI: Baker, J. (TXST $1,090,068 + 21PSTEM $909,875 = $1,999,943 Total).

Spencer Foundation (2024, November). Exploring Undergraduate Visual Competence Across STEM to Enhance Learning with Models. PI: **Daniel, K.L**., Co-PI: Luxford, C. (TXST $50,000).

Leave No Trace, Research Grant. (2024, October). *Trace Trackers.* PI: **Daniel, K.L**. (TXST $20,000).

National Science Foundation, Scholarships in STEM Program (S-STEM). (2024, March). *S-STEM: Transforming Access to Life Sciences is Key to Doctoral Student Success (TALK Doc).* PI: Bucklin, C.J. Co-PIs: Giuffre, P., **Daniel, K.L.**, & Martina, J. (TXST $1,999,441).

American Association of University Women, Community Action Grant. (2023, November). *Seasons of Science: Changing the Narrative of Science Spaces for Women*. PI: Bucklin, C.J., Co-PI: **Daniel, K.L.** (TXST $8,252 + $8,730 Matched Costs = $16,982 Total).

Biochemical Society. (2023, October). *Seasons of Science*. PI: Bucklin, C.J., Co-PIs: **Daniel, K.L.**, & Johnson, S. (TXST $6,170.50).

Leave No Trace, Research Grant. (2023, October). *Building Environmental Mindfulness Abroad and At Home.* PI: **Daniel, K.L**. (TXST $19,950).

National Science Foundation, Advancing Informal Science Learning (AISL). (2023, January). *Minding the Hill Country.* PI: **Daniel, K.L.,** Co-PIs: Forsythe, M., & Williamson, P. (TXST $1,999,592).

National Science Foundation, Research Coordination Networks (RCN). (2022, July). *Eye-Tracking Exploration: Formalizing Optic Conventions in Undergraduate Science (EYE: FOCUS)*. PI: **Daniel, K.L.** (TXST $499,983).

National Science Foundation, Advancing Informal Science Learning (AISL). (2022, January). *Minding the Hill Country.* PI: **Daniel, K.L.,** Co-PIs: Forsythe, M., & Williamson, P. (TXST $2,987,196).

National Science Foundation, Vision and Change in Undergraduate Biology Education (V&C). (2021, March). *Collaborative Research: Vision and Change Professional Development across the Faculty Spectrum (V&C ProSpect).* PI: **Daniel, K.L.** Co-PIs: Witzig, S., & Bucklin, C.J. (TXST $680,238 + UMassD $499,620 + SUU $67,688 + UNL $98,498 = $1,346,044 Total).

National Science Foundation, Improving Undergraduate STEM Education: Hispanic-Serving Institutions, Institutional Transformation Project (IUSE: HSI, ITP). (2021, February). *HSI Transforming Institution: Building a Foundation for STEM Success through Early Access to Undergraduate Research.* PI: Williamson, P. Co-PIs: Bolch, K., **Daniel, K.L.**, Luxford, C., & Irvin, J. (TXST $2,999,995).

National Science Foundation, Advancing Informal Science Learning (AISL). (2021, January). *Minding the Hill Country.* PI: **Daniel, K.L.,** Co-PIs: Forsythe, M., Williamson, P., & Rodriquez, D. (TXST $2,999,822).

National Science Foundation, Improving Undergraduate STEM Education: Pathways into the Earth, Ocean, Polar, and Atmospheric & Geospace Sciences – *Informal Networks* (IUSE: GEOPAths – *IN*). (2021, January). *LoQuest: Transforming Local STEM Questions into Global Geoscience Journeys.* PI: Forsythe, M. Co-PIs: **Daniel, K.L.**, & Dussler, R. (TXST $349,648).

National Science Foundation, Improving Undergraduate STEM Education: Education and Human Resources, Engaged Student Learning (IUSE: EHR, ESL). (2020, December). *Collaborative Research: NABT IBEx Community Short Course.* PI: Hiatt, A. Co-PI: **Daniel, K.L.,** Witzig, S., & Reeves-Pipen, J. (UNL $1,001,320 + TXT $487,242 + UMASS-D $491,115 = $1,979,677 Total).

National Science Foundation, Improving Undergraduate STEM Education: Education and Human Resources, Institutional and Community Transformation (IUSE: EHR, ICT). (2020, December). *Collaborative Research: BRIDGES: BRidging InterDisciplinary Gaps in Education Sciences.* PI: Peffer, M. Co-PI: Schuchardt, A. & **Daniel, K.L.** (UCB $1,180,707 + UMN $532,310 + TXT $667,096 = $2,380,113 Total).

National Aeronautics and Space Administration, Teams Engaging Affiliated Museums and Informal Institutions (TEAM II) Remote Opportunities Rapid Response (RORR). (2020, August). *Investigating Our Changing Planet- Meadows Center Eco Explorers*. PI: Wait, M. Co-PIs: **Daniel, K.L.**, Forsythe, M., Lobban, M., & Massey, S., Collaborator: Newman, N., NASA Partners: Ferrell, T., Janney, D., & Taylor, J. (TXST $130,561).

National Science Foundation, Improving Undergraduate STEM Education, Hispanic Serving Institution Program - Implementation and Evaluation Projects, Track 2 (IUSE HSI - IEP Track 2). (2020, LOI September, Full Submission Due Jan 2021). *Náyade: Learning to Tell Nature's Stories.* PI: **Daniel, K.L.** Co-PIs: Forsythe, M. & Dussler, R. ($500,000).

Spencer Foundation, Special Grant Request. (2020, June). *Ways Informal Science Educators are Responding (WISER) to COVID-19.* PI: Forsythe, S., Co-PIs: **Daniel, K.L.** & Dussler, R. (TXST $49,417).

National Science Foundation, S-STEM. (2020, March). *Facilitating Graduate Student Success through Mentoring, Cohort Identity, and Scholarships.* PI: Luxford, C.J., Co-PIs: **Daniel, K.L.**, Irvin, J., Collins, K., & Paulson, E., (TXST $649,730).

United States Department of Agriculture, Hispanic Serving Institution Education Grant Program (2020, January). *Siempre Adelante: Solving the Maze of Academia.* PI: **Daniel, K.L.**, Co-PIs: Garcia, D.M., Chahin, J., Young, G., Ratcliffe, L., & Bush, J. (TXST $999,008).

National Science Foundation, Advancing Informal Science Learning. (2019, November). *Minding the Hill Country.* PI: **Daniel, K.L.**, Co-PIs: Forsythe, M., Rodriguez, D. & Williamson, P. (TXST $2,999,304).

U.S. Fish and Wildlife Service. (2019, December). *Assessing the impact of disturbance events on freshwater mussels in Central Texas Rivers.* PI: Schwalb, A., Co-PIs: Hardy, T., **Daniel, K.L.**, Seagroves, L., & Gibson, R. (TXST $186,000).

Texas Sea Grant. (2019, June). *Local Climate Change Risk Messaging.* PI: **Daniel, K.L**. Co-PI: Serenari, C. (Full Proposal, $284,158 + $142,080 Matched Costs = $426,238 Total).

National Science Foundation, INCLUDES (2019, April). *NSF INCLUDES Alliance: Expanding the ACCEYSS (Activating Communities of Color to Equip Youth for STEM Success) Alliance in U.S. Mega-States.* PI: Ashford, S., Co-PIs: **Daniel, K.L.**, Garcia, D.M., & Masino, A. (TXST $2,051,592).

National Science Foundation, S-STEM. (2019, March). *Facilitating Graduate Student Success through Mentoring, Cohort Identity, and Scholarships.* PI: Luxford, C., Co-PIs: Irvin, J., **Daniel, K.L.**, Collins, K., & Paulson, E., (TXST $649,437).

National Science Foundation, Research Coordination Networks. (2019, January). *RCN-UBE Incubator: Interdisciplinary Biology Education Research Group (I-BERG).* PI: Peffer, M., Co-PIs: Schuchardt, A. & **Daniel, K.L.** (TXST $74,989).

Spencer Foundation. (2019, January). *Student Hormonal Stress Responses in Two Learning Environments.* PI: **Daniel, K.L.,** Co-PI: Huertas, M. (TXST $49,809).

National Science Foundation, Advancing Informal Science Learning. (2018, November). *Minding the Hill Country.* PI: **Daniel, K.L.**, Co-PIs: Forsythe, M. & Williamson, P. (TXST $2,990,225).

National Science Foundation, Advancing Informal Science Learning. (2018). *ACCEYSS (Association of Collaborative Communities Equipping Youth for STEM Success) Expansion.* PI: Ashford, S., Co-PIs: Masino, A., **Daniel, K.L.**, & Garcia, D. (TXST $1,149,351).

National Science Foundation, Improving Undergraduate STEM Education – Hispanic Serving Institutions. (2018). *Building Capacity: Developing Potential through the Honors Science Initiative.* PI: Galloway, H., Co-PIs: Brown, D., Betancourt, T., **Daniel, K.L.**, & Close, E. (TXST $1,334,442).

National Science Foundation, Research Coordination Networks. (2018). *RCN-UBE: Interdisciplinary Network for Biology Education Research Group (I-BERG).* PI: Peffer, M., Co-PI: **Daniel, K.L.** and Schuchardt, A. ($62,499 University of Northern Colorado + $12,500 TXST = $74,999 Total).

National Science Foundation, Improving Undergraduate STEM Education. (2017). *Accelerating Science Undergraduate Identity Transitions through Immersion Experiences (A SUIT &*

TIE). PI: Del Carlo, D, Co-PI: Maroo, J. Evaluator: **Daniel, K.L.** (University of Northern Iowa $299,992 Total).

National Science Foundation, Division of Research and Learning - Core R&D Programs (2017). *CAREER: Building Visual Competence in STEM with Trees.* PI: **Daniel, K.L.** (TXST $601,804 Total).

Texas Parks and Wildlife Department Wildlife Diversity Program Conservation License Plate Grant. (2017). *Drivers of spotted bat (Euderma maculatum) occupancy in the Big Bend region of Texas.* PI: Fritts, S., Co-PI: **Daniel, K.L.** (TXST $29,817 Total).

National Science Foundation, Research Coordination Networks. (2017). *RCN-UBE Incubator: Interdisciplinary Network for Biology Education Research Group (I-BERG).* PI: Peffer, M., Co-PI: **Daniel, K.L.** and Reinsvold, L. ($46,325 University of Northern Colorado + $3,500 TXST = $49,825 Total).

National Science Foundation, Advancing Informal Science Learning. (2016). *Collaborative Research: Gauging Enhancements from Training and Technology use in Over, Under and Through: Students Informally Discover the Environment (GET^2 OUTSIDE)*. PIs: **Daniel, K.L.** & Thomas, A.K. ($2,533,818 TXST + $407,269 Loyola = $2,941,087 Total).

National Science Foundation, Division of Research and Learning - Core R&D Programs (2016). *CAREER: Building Visual Competence in STEM with Trees.* PI: **Daniel, K.L**. (TXST $599,635 Total).

Spencer Foundation (2016). *Explicit Syllabi as Tools for Comparing Professor and Student Perceptions of Course Objectives.* PI: **Daniel, K.L.** (TXST $39,266 Total).

Alfred P. Sloan, Higher Education Science of Learning STEM (2016). *Exploring College Student Biology Learning with Manipulative Representations.* PI: **Daniel, K.L.** (TXST $69,225 Total).

National Science Foundation, Advancing Informal Science Learning (2016). *Science Learning+: GeoCapabilities: An Approach to Informal STEM Learning in the Field.* PI: Boehm, R.G., Co-PI: **Daniel, K.L.**, Solem, M. (TXST $1,192,507 Total).

National Science Foundation, Advancing Informal Science Learning (2015). *Collaborative Research: Gauging Enhancements from Training and Technology use in OUTSIDE (GET^2 OUTSIDE).* PI: **Daniel, K.L.** (TXST), Co-PI: Thomas, A.K. (Loyola, New Orleans) ($2,583,986 TXST, $390,696 Loyola = $2,974,682 Total).

National Science Foundation, Advancing Informal Science Learning (2014). *Collaborative Research: Gauging Enhancements from Training and Technology use in OUTSIDE (GET^2 OUTSIDE)*. PI: **Halverson, K.L.** (USM), Co-PI: Thomas, A.K. (Loyola, New Orleans), Co-PI: To, Y. ($1,997,468 USM, $989,364 Loyola = $2,986,832 Total).

National Science Foundation, Advancing Informal Science Learning (2014). *Collaborative Research: Generating Engagement with Technology through OUTSIDE (GET*

OUTSIDE). PI: **Halverson, K.L.** (USM) PI: Thomas, A.K. (Loyola, New Orleans) Co-PI: Gearity, B. ($1,998,663 USM, $1,001,185 Loyola = $2,999,848 Total).

National Science Foundation. Improving Undergraduate STEM Education (2014). *Exploring the Development of Student Identity through Biology Course Experiences.* PI: Clase, K.L. (Purdue) Consultant: **Halverson, K.L.** (USM) (Purdue $696,577 Total).

National Science Foundation, Discovery Research K-12 (2013). *Collaborative Research: Integrating Quantitative Literacy into Biology through Teacher Professional Development*. PI: Clase, K.L. (Purdue) PI: **Halverson, K.L.** (USM) Co-PI: Kirkham, L. & Parker, L.C. ($39,999 USM, $407,800 Purdue = $447,799 Total).

NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES). (2013). *Let's Learn While Having Fun at INFINITY.* PI: Herron, S. Co-PIs: Brown, S., Buchanan, R., **Halverson, K.L.**, Kar, B., Sirola, C., Stephen, J., Graben, J. (USM $868,258.00 Total).

National Science Foundation, Experimental Program to Stimulate Competitive Research (EPSCoR) Research Infrastructure Improvement (RII-Track1) Program. (2012). *Advancing Basic and Applied Research through Genomics*. PI: Peterson, D.G., Co-PI: Elasri, M.O., Isokephi, R., Marquart, M.E., Williams, L., Lawrence, M.L., Hoeksema, J., Nannapaneni, R., Noonan, B., Counterman, B., **Halverson, K.L.,** Perkins, A. (~20Mil) *Preproposal*.

NASA Space Grant: STEM Education (2012). *Improving Retention and Success of Unprepared Introductory Biology Students.* PI: **Halverson, K.L.** (USM $500,000 pre-proposal).

National Science Foundation, Ethics Education in Science & Engineering. (2012). *Sophrosync: An Ethics Education Project for the Sciences.* Principle Investigator: Herron, S.S.; Co-PI: Bruton, S.V., and **Halverson, K.L.** (USM $299,993 Total).

National Science Foundation, Transforming Undergraduate Education in Science, Mathematics, and Technology Education (2012). *Using Tree Thinking to Reform Education in Evolutionary Science (Using TREES)*. PI: **Halverson, K.L.** (USM $192,972 Total).

NCAA Research Committee: Graduate Student Research Grant Program. (2012). *Exploring Effective Student-Athlete Time Management Strategies to Maximize Academic Success.* Graduate Student Investigator: Boyce, C.; Faculty Research Advisors: **Halverson, K.L.**, & Gearity, B. (USM $7,500 Total).

Spencer Foundation. (2011). *Nursing Students Obstacles with Science (Nursing SOS).* PI: **Halverson, K.L.** (USM $39,723 Total).

National Science Foundation, Informal Science Education (2010). *Over, Under and Through, Students Informally Discover the Environment (OUTSIDE)*. PI: Thomas, A.; Co-PI: **Halverson, K.L.** (USM $2,925,608 Total).

National Science Foundation, Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES) (2010). *Investigating the Role of Representations*

in Introductory Biology to Optimize Science Education. PI: **Halverson, K.L.** (USM $199,340 Total).

National Science Foundation, Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES) (2010). *Collaborative Research: TUES Phase I: An experimental model for integrating virtual learning into interdisciplinary biology education* (#1044050). PI: Clase, K.L.; Co-PI: **Halverson, K.L.** ($23,989 USM, $176,000 Purdue = $199,989 Total).

Howard Hughes Medical Institute Undergraduate Science Education – Educational Experiment. (2009). *Using visual representations to enhance undergraduate learning in the life sciences.* Program Director: Moore, F.; Key Faculty: **Halverson, K.L**., Freyermuth, S., & Lee, A. (USM $491,600 Total).

Howard Hughes Medical Institute Undergraduate Science Education – Core Project (2009). *Integrated engagement in the life sciences.* Program Director: Moore, F.; Key Faculty: Herron, S., Shearer, G., Biesiot, P., Lee, A., & **Halverson, K.L.** (USM $1,692,952 Total).

National Science Foundation, Gordon Research Conference Visionary Grant. (2009). *Developing and evaluating interactive visualization tools for supporting undergraduate understanding of phylogenetic trees.* PI: **Halverson, K.L.** (MU $6000 Total).

3. Funded Internal Grants and Contracts ($67,255.30):

Texas State University, Innovation and Discovery Workshop. (January 2025–May 2025). *Semiconductor Workforce Development: A Model-Based Interdisciplinary Approach.* PIs: Theodoropoulou, N., **Daniel, K.L.**, Birrell, J., & Ahmen, M. I. (TXST $2500 stipend per member, **$10,000** Total).

Texas State University, IDEA Center Student Research Project Funding (September 2024 – December 2024). *An artist's interpretation of climate change in Central Texas.* PI: **Daniel, K.L**.; Student: Roman, Al. (TXST **$500**).

Texas State University, Service-Learning Mini Grant (October 2023-August 2024). *Biology in Ireland Education Abroad Program.* PI: **Daniel, K.L.** (TXST **$500**).

Texas State University, Faculty Developmental Leave Supplemental Award (September 2021 – May 2022). PI: **Daniel, K.L.** (TXST $20,000 + $26,370 Salary supplement from Provost = **$46,370** Total).

Texas State University Speed Networking for Researchers Multidisciplinary Team Incentive (July 2017 – August 2019). *Visual Education and Communication across Science Domains.* PI: Savelyev, A. Co-PI: **Daniel, K.L.**, Roundtree, A., & Luxford, C. (TXST **$2,500**).

Texas State University, Research Enhancement Program (January 2016-May 2017). *Impacts of Visualization Interactions on Student Tree-Thinking Outcomes.* PI: **Daniel, K.L. (**TXST **$8000).**

Texas State University. (September 2015). *Alkek University Library Faculty Startup Funds to Support New Faculty Research by Enhancing the Library's Collections in the New Faculty Areas of Specialization.* Requestor: **Daniel, K.L. (**TXST **$1405 for Eight Book Series).**

University of Southern Mississippi Grants Proposal Develop Program. (February 2013-February 2014). *Assessing the impact of a VWE educational intervention on college student learning and engagement.* PI: **Halverson, K.L. (**USM **$2000).**

Richard Wallace Research Incentive Grant, MU. (August 2008-July 2009). *Improving Phylogenetic Thinking in Biology Undergraduates.* PI: Pires, J. C. Investigator: **Halverson, K.L.** (MU **$4000).**

Learning Teaching and Curriculum Travel Grant, MU, 2006 (**$250**), 2007 (**$250**), 2008 (**$300**). The Department of Learning Teaching and Curriculum annually supports professional development to present research.

Organization Research Group (ORG) Travel Budget Funding 2007 (**$603.86**). ORG supports student associations at MU send members to professional conferences to present research.

Graduate Student Association Travel Grant, 2007 (**$50**), 2008 (**$110**). This association at the MU selectively supports graduate students' pursuits toward professional development and dissemination of research.

Graduate Professional Council Travel Grant, 2007 (**$366.44**), 2008 (**$50**). This association at the MU selectively supports graduate students' dissemination of research.

4. Submitted, but not Funded, Internal Grants and Contracts:

Texas State University, Research Enhancement Program (2025, October). *Research Rangers: Investigating Program Design, Technology, Integration, and Data Quality in Informal Citizen Science*. PI: **Daniel, K.L.** (TXST: $12,000).

Texas State University, Research Enhancement Program (2024, October). *Generating Community Behavior Changes Using Trace Trackers*. PI: **Daniel, K.L.** (TXST: $8,000).

Texas State University, Internal competition for Texas Parks and Wildlife Community Outdoor Outreach Program (TPWD CO-OP). (2024, June). *Seasons of Science.* PI: **Daniel, K.L.** Co-PI: Bucklin, C.J. (TXST $62,949.53)

Texas State University, Center for International Studies. (2024, February). *Honorary Professor Research Award.* PI: **Daniel, K.L.** (TXST $1000).

Texas State University, Research Enhancement Program. (2022, October). *Impacts of a Popular Media Intervention on Misconceptions about the Theory of Evolution.* PI: **Daniel, K.L.** (TXST $8,000).

Texas State University, CoSE Collaborative Postdoctoral Fellowship. (2022, January). *Shifting Phenology and Perspectives: Harnessing community science to quantify shifts in public perceptions of sustainability and biodiversity conservation research.* PI: O'Connell, M.,

Faculty Mentors: **Daniel, K.L**. & Ikehata, K. (TXST Salary [$94,944 plus 28% fringe] +$2,400 materials = $123,992 Total). *Withdrawn*

Texas State University, Research Enhancement Program. (2020). *Pollinator Partners: Scaffolding Outdoor Elementary Science Investigations.* PI: Forsythe, S., Co-PI: **Daniel, K.L.** (TXST $16,000).

Texas State University, Research Enhancement Program (2018). *Student Hormonal Stress Responses in Two Learning Environments.* PI: **Daniel, K.L.**, Co-PI: Huertas, M. (TXST $16,000).

Texas State University, Research Enhancement Program (2017). *Connecting Interest in and Awareness of the Environment with an Informal Experience*. PI: **Daniel, K.L.**, Co-PI: Williamson, P. (TXST $15,989).

Texas State University Multi-Disciplinary Internal Research Grant (2016). *Overcoming Language Issues through Visual Education in STEM.* PI: **Daniel, K.L.** Co-PI: Komogortsev, O.V. (TXST $25,000 Pre-proposal).

USM Summer Grant of Improvement of Instruction (2012). *Helping Unprepared Students Succeed in Introductory Biology.* PI: **Halverson, K.L.** (USM $2000).

Student eResearch Fellowship Program, MU (2008). *Developing phylogenetic thinking in biology undergraduates by using online supports*. Investigator: **Halverson, K.L.** (USM $2000).

D. Fellowships, Awards, Honors:

Honorary Professor of International Studies. Texas State University. 2024. This lifelong distinction is awarded to full, tenured professors who have excelled in teaching international or comparative courses, and, most importantly, in research interests and publications on international topics.

Research in Biology Education Award. National Association of Biology Teachers, Four-Year College & University Section. 2022. Each year, the association selects one nominated faculty member who has demonstrated creativity and innovation in research that furthers our understanding of undergraduate teaching and education to receive this award.

LBJ Institute Faculty Research Fellow. TXST. 2021-2023. This joint program of the LBJ Institute for STEM Education & Research in the College of Science and Engineering, selects 5-7 faculty involved in STEM education best practices adoption or STEM education research for this two-year fellowship.

Finalist for *Outstanding Doctoral Dissertation Award.* National Association of Research in Science Teaching. 2010.

Nominated for *Distinguished Doctoral Dissertation Award.* MU. 2010.

Graduate Research Assistant of the Year Award, Southwestern Bell Science Education Center, MU, 2009. Each year, the Science Education Center faculty at MU selects one graduate research assistant who has demonstrated outstanding research productivity for this award.

Ruth E. Norris Scholarship, MU, AY 2006-2007. Each year the College of Education awards one graduate student with an exemplary academic and research record an annual scholarship to support future research endeavors.

E. Community Science Outreach Events

a. Organized and Lead Events [impact data]

Seasons of Science. (December 7, 2025). *Seasonal Senses.* Event Leads: Bucklin, C.J. & **Daniel, K.L.** Student Lead: Zipperer, J. Roughhouse Brewery, San Marcos, TX. [94 attendees; 18 volunteers]

Seasons of Science. (December 6, 2025). *Seasonal Senses.* Event Leads: Bucklin, C.J. & **Daniel, K.L.** Student Lead: Zipperer, J. Roughhouse Brewery, San Marcos, TX. [164 attendees; 16 volunteers]

Tree Walk. (December 5, 2025). *Research Rangers: Tree Walk*. Event Lead: **Daniel, K.L.**, Student Lead: Zipperer, J. Jacob's Well Nature Area, Wimberley, TX. [6 attendees; 3 volunteers]

Seasons of Science. (October 5, 2025). *Natural Neighbors.* Roughhouse Brewery, San Marcos, TX. Event Leads: **Daniel, K.L.** & Bucklin, C.J; Student Lead: Zipperer, J. [85 attendees; 10 volunteers]

Seasons of Science. (October 4, 2025). *Natural Neighbors.* Shady Llama, Wimberley, TX. Event Leads: **Daniel, K.L.** & Bucklin, C.J.; Student Lead: Zipperer, J. [124 attendees; 13 volunteers]

Guided Nature Exploration. (July 18, 2025). *Research Rangers: Fossil Hunt*. Shady Llama, Wimberley, TX. PI: **Daniel, K.L.**; Student Lead Zipperer, J. [13 attendees]

Guided Nature Exploration. (July 11, 2025). *Research Rangers: Good Gally*. Shady Llama, Wimberley, TX. PI: **Daniel, K.L.**; Student Lead Zipperer, J. [7 attendees]

Guided Nature Exploration. (June 27, 2025). *Research Rangers: Where's Wildlife*. Shady Llama, Wimberley, TX. PI: **Daniel, K.L**.; Student Lead Zipperer, J. [7 attendees]

Guided Nature Exploration. (June 20, 2025). *Research Rangers: Pollination Partners*. Shady Llama, Wimberley, TX. PI: **Daniel, K.L.**; Student Lead Zipperer, J. [9 attendees]

Guided Nature Exploration. (June 13, 2025). *Research Rangers: Mammal Signs*. Shady Llama, Wimberley, TX. PI: **Daniel, K.L.**; Student Lead Zipperer, J. [8 attendees]

Seasons of Science. (May 4, 2025). *Nature's Wardrobe.* Roughhouse Brewery, San Marcos, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [118 attendees]

Seasons of Science. (May 3, 2025). *Nature's Wardrobe.* Shady Llama, Wimberley, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [151 attendees]

Seasons of Science. (April 6, 2025). *Science Blooms.* Roughhouse Brewery, San Marcos, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [57 attendees]

Seasons of Science. (April 5, 2025). *Science Blooms.* Shady Llama, Wimberley, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [139 attendees]

Seasons of Science. (April 4, 2025). *Science Blooms.* Jester King, Dripping Spring, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [59 attendees]

Seasons of Science. (January 12, 2025). *Wintery Wings.* Roughhouse Brewery, San Marcos, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [104 attendees]

Seasons of Science. (January 11, 2025). *Wintery Wings.* Shady Llama, Wimberley, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [124 attendees]

Seasons of Science. (October 20, 2024). *Feed Me.* Roughhouse Brewery, San Marcos, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [105 attendees]

Seasons of Science. (October 19, 2024). *Feed Me.* Shady Llama, Wimberley, TX. Event Leads: Bucklin, C.J. & **Daniel, K.L.**, Student Lead: Zipperer, J. [124 attendees]

Guided Nature Exploration. (October 10, 2024). *Research Rangers: Fossil Hunt*. Texas State University, San Marcos, TX. Event Lead: **Daniel, K.L.** [8 attendees; 2 volunteers]

TXST Interpretation Day. (September 3, 2024). *Research Rangers.* Texas State University, San Marcos, TX. Event Lead: **Daniel, K.L.** [12 attendees]

Guided Nature Exploration. (May 15, 2024). *Research Rangers: Pollination Partners, Good Gally,* and *Nature Invaders*. Negley Elementary School, Kyle, TX. Event Lead: **Daniel, K.L.**, Student Leads: Jess, C., Baratang, H, & Pringle, B. [102 attendees]

Guided Nature Exploration. (May 14, 2024). *Research Rangers: Pollination Partners, Good Gally,* and *Nature Invaders*. Negley Elementary School, Kyle, TX. Event Lead: **Daniel, K.L.**, Student Leads: Jess, C., Baratang, H, & Pringle, B. [102 attendees]

b. Invited Participation at Community Events [impact data]

Summer Pointe Park Conservation Fair. (January 19, 2026). *Research Rangers: Tree Walk* and *Gall Guide*. Summer Pointe Park, Buda, TX. [27 attendees]

Wild Arctic Animals. (December 20, 2025). *Research Rangers: Winged Wanderers* and *Bird Buddies*. Science Mill, Johnson City, TX. [25 attendees]

Science Teachers Association of Texas, Conference for the Advancement of Science Teaching (November 13-14, 2025). *Research Rangers.* Dallas, TX. [215 attendees]

Growing Up Wild. (November 6, 2025). *Research Rangers: Good Gally*. San Marcos Public Library, San Marcos, TX. [3 attendees]

American Society of Plant Biologists. (October 28-November 2, 2025). *Research Rangers: Plant Protectors* and *Natural Journey*. National Association of Biology Teachers, St. Louis, MO. [65 attendees]

Texas Master Naturalist Annual State Meeting. (October 16-19, 2025). *Research Rangers*. College Station, TX. [500 attendees]

Texas Arbor Day Celebration. (October 17, 2025). *Research Rangers: Bird Buddies*. Buda, TX. [280 attendees]

Aquatic Science Adventure Camp. (July 30, 2025). *Research Rangers: Mammal Signs*. Texas State University, San Marcos, TX. [21 attendees]

Aquatic Science Adventure Camp. (July 28, 2025). *Research Rangers: Mammal Signs*. Texas State University, San Marcos, TX. [23 attendees]

Growing Up Wild. (July 28, 2025). *Research Rangers: Spider Friends.* San Marcos, Public Library, San Marcos, TX. [43 attendees]

Growing Up Wild. (July 7, 2025). *Research Rangers: Bird Buddies.* San Marcos, Public Library, San Marcos, TX. [41 attendees]

Growing Up Wild. (July 3, 2025). *Research Rangers: Pollination Partners.* San Marcos, Public Library, San Marcos, TX. [37 attendees]

Growing Up Wild. (June 30, 2025). *Research Rangers: Bird Buddies.* San Marcos, Public Library, San Marcos, TX. [28 attendees]

Growing Up Wild. (June 26, 2025). *Research Rangers: Pollination Partners.* San Marcos, Public Library, San Marcos, TX. [39 attendees]

BugFest. (June 7, 2025). *Research Rangers: Mighty Metamorphs*. Roughhouse Brewing, San Marcos, TX. [260 attendees]

Pollination Party. (June 5, 2025). *Research Rangers: Pollination Partners.* San Marcos, Public Library, San Marcos, TX. [92 attendees]

Migratory Bird Day. (May 10, 2025). *Research Rangers: Winged Wanderers* and *Bird Buddies*. Discovery Center, San Marcos, TX. [200 attendees]

Nature Festival. (May 10, 2025). *Research Rangers: Firefly Watch.* Stagecoach Park, Buda, TX. [35 attendees]

Mermaid Society Earth Stewardship Conservation Fair. (April, 27, 2025). *Research Rangers.* Pauline Espinoza Recreation Hall, San Marcos, TX. [45 attendees]

Earth Day. (April 26, 2025). *Research Rangers: Living Waters.* Wimberley United Methodist Church, Wimberley, TX. [48 attendees]

Earth Day Festival. (April 19, 2025). *Research Rangers.* The Meadows Center for Water and the Environment, San Marcos, TX. [198 attendees]

Spring Festival. (April 10, 2025). *Research Rangers.* Lehman High School, Kyle, TX. [80 attendees]

Native Plant Sale. (April 5, 2025). *Research Rangers.* San Marcos Discovery Center, San Marcos, TX. [28 attendees]

Camp Crockett Family Field Day. (March 28, 2025). *Research Rangers*. Crockett Elementary School, San Marcos, TX. [129 attendees]

Comal Conservation Talk. (March 11, 2025). *Research Rangers*. McKenna Children's Museum, New Braunfels, TX. [20 attendees]

Academic Night. (February 13, 2025). *Research Rangers*. Science Mill, Johnson City, TX. [36 attendees]

Library Literacy Day. (November 9, 2024). *Research Rangers.* Jester King Brewery, Dripping Springs, TX. [224 attendees]

Kyle Market Days. (November 9, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [45 attendees]

Academic Night. (November 8, 2024). *Research Rangers.* Buda Public Schools, Buda, TX. [110 attendees]

STREAM Night. (November 7, 2024). *Research Rangers: Living Waters.* Negley Elementary School, Kyle, TX. [95 attendees]

Texas Master Naturalist State Meeting. (October 24-27, 2024). *Research Rangers.* San Marcos, TX. [231 attendees]

Kyle Market Days. (October 12, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [62 attendees]

Mermaid Society River Guardianship Symposium. (September 15, 2024). *Research Rangers.* Pauline Espinoza Recreation Hall, San Marcos, TX. [22 attendees]

Kyle Market Days. (September 14, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [39 attendees]

Kyle Market Days. (August 10, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [26 attendees]

Growing Up Wild. (July 18, 2024). *Research Rangers: Nature Invaders*. San Marcos Public Library, San Marcos, TX. [42 attendees]

Growing Up Wild. (July 9, 2024). *Research Rangers: Good Gally*. San Marcos Public Library, San Marcos, TX. [18 attendees]

Growing Up Wild. (July 8, 2024). *Research Rangers: Pollination Partners*. San Marcos Public Library, San Marcos, TX. [14 attendees]

Kyle Market Days. (June 29, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [51 attendees]

Kyle Market Days. (June 8, 2024). *Research Rangers.* Mary Kyle Hartson Park, Kyle, TX. [50 attendees]

Growing Up Wild. (June 6, 2024). *Research Rangers: Nature Invaders*. San Marcos Public Library, San Marcos, TX. [34 attendees]

Growing Up Wild. (June 5, 2024). *Research Rangers: Good Gally*. San Marcos Public Library, San Marcos, TX. [34 attendees]

Growing Up Wild. (June 3, 2024). *Research Rangers: Pollination Partners*. San Marcos Public Library, San Marcos, TX. [31 attendees]

Down to Earth. (May 25, 2024). *Research Rangers.* Science Mill, Johnson City, TX. [33 attendees]

Kyle Market Days. (May 11, 2024). *Research Rangers*. Mary Kyle Hartson Park, Kyle, TX. [74 attendees]

Pollinator Palooza! (April 20, 2024). *Research Rangers: Pollination Partners.* Science Mill, Johnson City, TX. [51 attendees]

Kyle Market Days. (April 13, 2024). *Research Rangers*. Mary Kyle Hartson Park, Kyle, TX. [93 attendees]

STREAMS Night. (March 28, 2024). *Research Rangers.* Negley Elementary School, Kyle, TX. [112 attendees]

New Year's Eve Celebration Day. (January 20, 2024). *Research Rangers.* The Meadows Center for Water and the Environment, San Marcos, TX. [36 attendees]

Thanksgiving Family Fun Day. (November 18, 2023). *Research Rangers.* The Meadows Center for Water and the Environment, San Marcos, TX. [27 attendees]

Growing Up Wild. (November 9, 2023). *Research Rangers: Nature Invaders*. San Marcos Public Library, San Marcos, TX. [15 attendees]

Boo Hole! (October 28, 2023). *Research Rangers*. Blue Hole Regional Park, Wimberley, TX. [250 attendees]

Spooktacular! (October 26, 2023). *Research Rangers*. Veramendi Elementary School, New Braunfels, TX. [80 attendees]

Indonesian Team Meeting. (October 11, 2023). *Research Rangers*. Texas State University, San Marcos, TX. [6 attendees]

Growing Up Wild. (October 5, 2023). *Research Rangers*. San Marcos Public Library, San Marcos, TX. [15 attendees]

Squeezebox Festival. (September 16, 2023). *Research Rangers*. Mary Kyle Hartson Park, Kyle, TX. [76 attendees]

Kyle Market Days. (August 12, 2023). *Research Rangers*. Mary Kyle Hartson Park, Kyle, TX. [109 attendees]

IV. SERVICE

A. Institutional

1. University:

TXST

2025 – Present	Faculty Development Write Watchers, **Faculty Leader**
2024 – Present	Education Abroad Advisory Board, **Member**
2023 – Present	Institutional Review Board (IRB), **Member** (Alternate 2023-24, 2026; Full Member 2024-2025)
2017 – Present	University Lecturers Committee, **Chair** (Interim Chair, 2020AY; Member 2017-2019),
2018 – 2023	Technology-Enhanced Active Learning Spaces (TEALS) Committee, **Member**

USM

2014 – 2015	International Exchange Program Committee, **Member**
2013 – 2015	Member, Service-Learning Advisory Board, **Member**
2011 – 2013	McNair Scholar (Donaven McLaurin), **Advisor**
2010 – 2012	Roots and Shoots, **Faculty Co-Advisor**

MU

2007 – 2008	Graduate Student Association, **Representative**

ISU

2004 – 2005	Honors and Awards Committee, **Member**

2. College:

TXST – College of Science and Engineering

2017 – 2019	**Poster Judge** (WISE, SURE)
2016 – 2018	ESB General Purpose Classroom Task Force, **Biology Representative**
2015	Seventh International Research Conference for Graduate Student, **Faculty Chair**

USM – College of Science and Technology

2009	College Science Teaching Conversations Seminar Series, **Organizer**

MU – College of Education

2007 – 2008	Conversations About College Science Teaching Organizing Committee, **Member**

3. Department/School:

TXST – Department of Biology

2025 – Present	Doctoral Program Degree Concentration Committee, Social and Educational Dimensions of Biology (SED), **Chair**
2025 – Present	Biology Faculty Nominations Committee, **Chair**
2022 – 2023	Meadows Endowed Professor in Ecohydrology Search Committee, **Chair**

2021 – 2023	Fuess Tracking Advisory Committee, **Member**
2020 – 2025	Martina Tracking Advisory Committee, **Chair** (Member 2020-2024)
2019 – Present	**Peer Reviewer of Teaching** (Wilson, 2019 [Functional Biology]; Fritts, 2019 [Natural History of Vertebrates]; Martina, 2020 [Wetlands Plant Ecology and Management]; Huertas, 2021 [Scientific Writing]; Siciliano-Martina, 2025 [Zoo Management])
2019 – Present	Graduate Admissions Committee, **Member**
2018 – 2023	Serenari Tracking Advisory Committee, **Chair**
2018 – Present	Personnel Committee, **Member**
2017 – 2021	Francis Rose Undergraduate Research Award Committee, **Member**
2017 – 2021	William E. (Henry) Norris Jr. Scholarship Committee**, Member**
2017 – 2021	(Chair 2017-2019), Audrey L. Evers Scholarship Committee**, Member**
2016 – Present	Biology Space Committee**, Member**
2018 – 2022	Instructor Evaluation Committee**, Member**
2017 – 2018	Human Dimensions Search Committee, **Member and Schedule Organizer**
2016 – 2018	Instructional Technologies Support, **Departmental Co-Liaison**
2015 – 2018	Faculty Co-Advisor, Beta Beta Beta, **Faculty Co-Advisor**
2016	Wildlife Biologist Search Committee**, Member**
2016	21st Annual Biology Student Colloquium, **Judge**

USM – Department of Biological Sciences

2011 – 2015	Assessment Committee**, Member**
2010 – 2015	Textbook Committee**, Member**
2014	Marine Biologist Search Committee**, Member**
2010 – 2014	Graduate Admissions Committee**, Member**
2010 – 2011	Haunted Halloween Trail, Biological Sciences Learning Center, **Volunteer**
2010	Department of Biological Sciences Graduate Student Forum, **Judge**

USM – Center for Science and Mathematics Education

2014 – 2015	Faculty Council, **CSME Representative**
2013 – 2015	CSME Graduate Admissions Committee**, Member**

MU – Department of Learning, Teaching, and Curriculum

2006 – 2009	Learning, Teaching, and Curriculum-Graduate Student Association, **President** (Member 2006, 2009)
2008	Learning, Teaching, and Curriculum Departmental Awards Committee, **Member**
2006 – 2008	Science Outreach Coordinator Search Committee, **Member**

B. <u>Professional</u>

Review Work

2026 – Present	Manuscript Reviewer, EvoDevo
2022	T&P reviewer, Georgia Southern University
2022	Biology Program Reviewer, Texas A&M Commerce
2021	T&P Reviewer, University of Alabama
2010 – Present	Grant Reviewer, Panelist DUE, DRL, and DBI, National Science Foundation (IUSE, S-STEM, RaMP, DRK-12, iTEST, REESE, TUES)
2014 – Present	Manuscript Reviewer, *CBE – Life Sciences Education*
2012 – Present	Manuscript Reviewer, *Evolution, Education, and Outreach*
2010 – Present	Manuscript Reviewer, *International Journal of Science Education*
2009 – Present	Manuscript Reviewer, *The American Biology Teacher*

2011 – 2020	Presentation Proposal Reviewer, *National Association of Biology Teachers*
2016	Manuscript Reviewer, *Science and Education*
2013 – 2015	Manuscript Reviewer, *Science Education*
2006 – 2015	Presentation Proposals Reviewer, *National Association for Research in Science Teaching*
2014	Manuscript Reviewer, *Journal of Geoscience Education*
2013 – 2014	Manuscript Reviewer, *International Journal of Science & Mathematics Education*
2011 – 2014	Chapter Reviewer, *Biology for a Changing World*, W.H. Freeman
2010 – 2014	Textbook reviewer, Wiley Publisher
2011 – 2013	Manuscript Reviewer, *BioScience*
2011 – 2013	Textbook reviewer, Oxford University Press
2011 – 2012	Chapter Reviewer, *Visual Data in Science Education*
2007	Manuscript Reviewer, *Ecology*
2007	Presentation Proposal Reviewer, *American Educational Research Association*

International and National

2028	National Association of Biology Teachers Board (NABT), **Past President**
2027	National Association of Biology Teachers Board (NABT), **President**
2026	National Association of Biology Teachers Board (NABT), **President-Elect**
2025 – Present	National Association for Interpretation (NAI) Instructor Advisory Panel, **Appointed Member**
2023 – 2025	National Association of Biology Teachers Board, **Director-at Large**
2022 – Present	NAI, College and University Academics Section Committee, **Member**
2016 – Present	Commission on Education and Communication, International Union for Conservation of Nature, **Member**
2012 – Present	College Board, AP Biology, **Table Leader** (Reader 2012-2020)
2022	AP Biology Standard Setting, **Panel Member**
2016 – 2023	Four Year College and University Section NABT, **Executive Board** (2016 Secretary, 2017 Vice Chair, 2018 Chair, 2019 Past Chair, 2019-2023 Nominations Chair),
2016 – 2021	*The American Biology Teacher* Advisory Committee, **Member**
2009 – 2021	National Association of Biology Teachers, Research Committee, **Co-Chair** (Member 2009-2010, 2016-2021),
2021	National Association of Interpretation Annual Meeting, **Volunteer Host**
2021 – 2022	NABT Introductory Biology Taskforce, **Appointed Member**
2021 – 2022	Biology Education Intersegmental Collaborative (BEIC), UC San Diego and San Diego City College, **Mentor**
2020 – 2022	National Association of Biology Teachers, **Region VII Coordinator**
2016 – 2020	State of Texas Assessments of Academic Readiness (STAAR) exam, **Chief Scoring Leader**
2012	Galway Atlantaquaria, National Aquarium of Ireland, **Costal Clean-up Crew Leader**
2012	Lissard Estate habitat building project, Wildlife Film School of Ireland, **Leader**
2011	USM Chapter, Sigma Xi, **Designated (Voting) Delegate**
2010	Wiley Non-Majors Biology Summit, Phoenix, AZ, **Contributor**

2008 – 2010	Annual meeting of the National Association for Research in Science Teaching, **Presider**
2007 – 2009	National Evolutionary Synthesis Center (NESCent) Tree Reasoning in Evolutionary Education (TREE) Working Group, **Invited Member**
2007 – 2009	NABT College and University Graduate Student Committee, **Member**

Regional and Local

2025 – Present	Texas Wildlife Association (TWA), Conservation Legacy Program, **Advisory Board Member**
2021 – Present	Informal Science Education Association (ISEA) of Texas, **Board Member** (*Elected*), (Fundraising Committee, Chair 2021-2023, Programming Member 2023, Logistics Member 2023)
2019 – Present	Hays County Master Naturalist, #1903 **Project Director**
2017 – 2025	Hays County Master Naturalist Training Committee, **Vice Chair** (Technology Chair, 2021-22, Speaker Chair 2017-21)
2017 – 2019, 2024	Mermaid Society River Guardianship Symposium Committee, **Organizer**
2010 – 2015	Mississippi Science Olympiad, **Event Supervisor** (Advisory Board Member 2012-2015)
2010 – 2015	Mississippi Science Fair, **Regional Judge** (Scientific Review Committee 2012-2015)
2010	Summer Academy, **Pentathlon Coordinator**
2006 – 2008	Missouri State Science Olympiad, **Event Supervisor**

Memberships

American Association for the Advancement of Science (AAAS)	Since 2007
American Educational Research Association (AERA)	Since 2007
American Society of Plant Biologists (ASPB)	Since 2025
Association of College and University Biology Educators (ACUBE)	Since 2006
European Science Education Research Association (ESERA)	Since 2012
Hays County Master Naturalists (HCMN)	Since 2017
International Society of the Learning Sciences (ISLS)	Since 2010
National Association of Biology Teachers (NABT) – *Lifetime Member*	Since 2006
National Association for Interpretation (NAI)	Since 2020
National Association for Research in Science Teaching (NARST)	Since 2005
National Science Teachers Association (NSTA)	Since 2004
San Marcos River Foundation (SMRF) – *Lifetime Member*	Since 2017
Society for the Advancement of Biology Education Research (SABER)	Since 2013
Society for the Study of Evolution (SSE)	Since 2007
Southwestern Association of Naturalists (SWAN) – *Lifetime Member*	Since 2018
Texas Association of Biology Teachers (TABT)	Since 2015
Jane Goodall Institute	2016-22
Mississippi Academy of Sciences (MAS)	2010-15
Mississippi Science Teachers Association (MSTA)	2011-15
Sigma Xi	2011-14
Pinebelt Young Professionals (PBYP)	2011-12
Botanical Society of America (BSA)	2007-12
American Society of Plant Taxonomists (ASPT)	2008-10
Society of Systematic Biologists (SSB)	2008-09
Ecological Society of America (ESA)	2007-09

C. Community

2023 – 2024	Mermaid Society, San Marcos, TX, **AquaRenia Mermaid**
2017 – 2019	Biennial Night Sky Festival, Dripping Spring, TX, **Silent Auction Volunteer**
2017	Kids Day at Common Fords Prairie, Austin, TX, **Program Leader**
2016 – 2017	Families in Nature, **Adult Volunteer**
2017	32nd Annual Great Texas River Clean-up, San Marcos River, **Participant**
2016	31st Annual Great Texas River Clean-up, Willow Creek, **Participant**
2015 – 2016	Kappa Alpha Theta: Alpha Theta Chapter, Education Advisor
2010 – 2013	Audubon Coastal Bird Survey (Gulfport, MS), **Field Data Volunteer**
2010 – 2013	Southern Pines Animal Shelter, Hattiesburg, MS, **Cat Room Volunteer**
2006 – 2008	Kappa Alpha Theta: Epsilon Iota, **Education and Scholarship Advisor**

D. Service Honors and Awards

Significant Contributions to the Chapter. The Hays County Master Naturalist Chapter recognizes one member for this award each year who has excelled in dedicating service to benefit the Hays County chapter through their efforts. 2025

Significant Contributions to the Chapter. The Hays County Master Naturalist Chapter recognizes one member for this award each year who has excelled in dedicating service to benefit the Hays County chapter through their efforts. 2020

Outstanding New Class Volunteer. The Hays County Master Naturalist recognizes one member for this award each year who has excelled in service to the chapter through their role on the Training Committee. 2020.

Outstanding Faculty Service Award. The College of Science and Technology at USM recognizes one faculty member for this award each year who has excelled in (non-administration) professional service. 2012.

E. Service Grants and Contracts

1. Funded External Service Grants and Contract ($10,409 Funded):

Learn and Serve America: Mississippi Service Learning Program, Service Learning Higher Education STEM. (August 2011-July 2012). *Service Learning Irish Biology Field Experience.* PI: **Halverson, K.L.** (USM **$5,000 Funds + $5,406 Cost Share = $10,409 Total**).

2. Submitted, but not Funded, External Service Grants and Contracts:

Kresge Foundation - San Marcos Texas Community Health Impact Grant. (2017). *Using Critical Service Learning to have long-term impact on the whole life health needs of our community members, across their lifespan.* P.I. Minifie, J., Co-PIs: Armstrong, G.L., Biggan, E.A., Ellis, J.H., Czyzewska, M, **Daniel, K.L.**, Guerrero, D., Lu, Y., Meaney, K.S., Norton, C., Rayburn, S.W., Renick, C.O., Trad, M.L., and Wagner, N. (TXST $350,000).

Student Leadership: Mississippi Service Learning Program, Service Learning Higher Education STEM Project. (2011). *Cleaning up Southern Mississippi.* Student Leaders: Boyce, C., Maroo, J., McElyea, K., Bohn, S., Wheat, J. Faculty Liaisons: Herron, S, **Halverson, K.L.**, & Hendry, S. (USM $2250).

3. Funded Internal Service Grants and Contracts ($4,500.00 Funded):

Leadership Grant, Westminster College, 1998-99 (**$1500**), 1999-2000 (**$1500**), 2000-01 (**$1500**). The college annually recognizes students in the top 10% of their class who have also demonstrated active involvement in leadership events and community service.

4. Submitted, but not Funded, Internal Service Grants and Contracts:

N/A