TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Tara Theresa Craig Title: PhD

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Ph.D.	*2015*	*The University of Texas at Austin*	*Mathematics Education*	*The Effects of PBL on Student High School and College Outcomes*
M.A.	*2010*	*The University of Texas at Austin*	*Mathematics*	*Summary of Geometry and Topology: Knots and the Biological Sciences*
B.A.	*2008*	*The University of Texas at Austin*	*Mathematics*	

C. University Experience

2025- *Present*	Assistant Professor of Instruction Texas State University	Department of Mathematics San Marcos, TX
2019-2023	Assistant Professor of Instruction The University of Texas at Austin	Department of Mathematics Austin, TX
2019-2022	Math Faculty Instructor of Record The University of Texas at Austin	UT OnRamps Austin, TX
2016-2019	Assistant Professor Coastal Carolina University	Department of Mathematics and Statistics Conway, SC
2015-2016	Visiting Assistant Professor Coastal Carolina University	Department of Mathematics and Statistics Conway, SC

D. Relevant Professional Experience

2023-2024	K-12 Math Achievement Specialist KIPPTexas	Regional Austin, TX

2013-2015 Professional Development & Research Coordinator UT OnRamps
The University of Texas at Austin Austin, TX

2008-2011 High School Mathematics Teacher
Manor New Tech High School Manor, TX

E. Other Professional Credentials (licensure, certification, etc.)

II. TEACHING

A. Teaching Honors and Awards:

2021-2023 Provost's Teaching Fellow, University of Texas at Austin
2021-2023 Texas Mindset Initiative (TXMI) Fellow, University of Texas at Austin
2009-2011 Manor ISD Leaders in Education and Development (LEAD) Award
2008-2009 Manor New Tech High Rookie Teacher of the Year

B. Courses Taught:

Differential Calculus (M408K) UT-Austin
Discovery: Intro to Adv. Studies in Math (M375D) UT-Austin
Foundations of Geo, Stats, & Prob (M316l) UT-Austin
Foundations of Arithmetic (M316k) UT-Austin
Introduction to Mathematics (M302) UT-Austin
Preparation for Calculus (M305G) UT-Austin
Differential Calculus (M160) CCU
Freshman Seminar in Mathematics (M190) CCU
Concepts of Contemporary Mathematics (M139) CCU
Functions, Applications, and Chaos (M385) CCU
Algebraic Thinking for Middle School Teachers (M205)
CCU Geometry for Middle School Teacher (M330) CCU
Problem Solving Strategies for Middle School Teacher (M219) CCU
Discrete Mathematics for Middle School Teachers (M175)
CCU Intensive Study of College Algebra (M130i) CCU
Survey of Contemporary Mathematics (Math 1316) TXST
Mathematics for Business and Economics (Math 1329) TXST
Elementary Algebra (Math 1300) TXST

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

D. Courses Prepared and Curriculum Development:

Freshman Seminar in Mathematics
Functions, Applications, and Chaos
Algebraic Thinking for Middle School Teachers
CCU Geometry for Middle School Teacher\
Problem Solving Strategies for Middle School Teacher
Discrete Mathematics for Middle School Teachers

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

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

3. Funded Internal Teaching Grants and Contracts:

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

F. Other:

G. Teaching Professional Development Activities Attended

TTESS Training 08/05/2026 Region 13, San Marcos, TX
Course Transformation Project (CTP) 06/01/2026- ongoing
Project-Based Learning Institute, 06/08/2026-06/12/2026, San Marcos, TX
AI in Teaching and Learning Symposium, 03/04/2026, San Marcos, TX
Completed 'Getting Started with AI' TXST Canvas course
Fall 2025 National Numeracy Meeting 11/07/2025-11/09/2025
National Numeracy Network, San Antonio, TX

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative Books:

2. Articles:

a. Refereed Journal Articles:

Craig, T. T. & Marshall, Jill (2019). Effect of project-based learning on high school Students' state mandated, standardized math and science exam performance. Journal of Research in Science Teaching, 1-28.

Craig, T. T. (2018). Optimizing Maternal and Tenure Clocks: A Mathematical Proof. Journal of Humanistic Mathematics, 8(2), 276-280.

Ho, A. M. & Craig, T. T. (2017). Polygons and Prejudice: Introducing social issues through math. MT- Circular, Summer/Autumn, 8-9.

b. Non-refereed Articles:

3. Conference Proceedings:

a. Refereed Conference Proceedings:

Craig, T., & Delgado, C., Aligning Science Learning Progressions and the Common Core State Standards for Mathematics. The National Association for Research in Science Teaching (NARST) Conference. Rio Grande, Puerto Rico. April, 2013.

Zeeuw, A.D., Craig, T., & You, H.S. (2013). Assessing conceptual understanding in mathematics. 2013 Institute of Electrical and Electronics Engineers (IEEE) Frontiers in Education Conference, 1742-1744.

b. Non-refereed:

4. Abstracts:

5. Reports:

6. Book Reviews:

7. Essays:

8. Poems:

9. Short Stories:

10. Other Works in Print:

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Craig, T., "The Coastal Paradox." Joint Mathematics Meeting: MAA Contributed Paper Session on It's Circular: Conjecture, Compute, Iterate, Inquiry-Based Teaching and Learning. Baltimore, MD. January 2019.

Craig, T., "Transforming Future Math Teachers into Mathematicians." Joint Mathematics Meeting: IBL- SIGMAA Contributed Paper Session, Inquiry-Based Teaching and Learning. San Diego, CA. January 2018.

Ho, A. & Craig, T., "Triangles, Squares, and Segregation: Introducing social issues through math." Joint Mathematics Meeting: MCST-SIGMAA Contributed Paper Session, Unexpected Topics for A Math Circle. Atlanta, GA. January 2017.

Craig, T., & Parry, M., "Extending UTeach inquiry-based learning practices through dual-credit STEM courses in partnership with The University of Texas at Austin: The OnRamps Model." The first annual UTeach Alumni Conference. Austin, TX. July 2014.

Craig, T., Parry, M., & Negley, M., "Project-Based Learning in Practice." The Annual UTeach Conference. Austin, TX. May 2014.

Schell, J., Parry, M., Craig, T., Daniels, M., & Lin, C., "Discovery Learning in a Blended Environment: The OnRamps Approach." Texas STEM Conference. Dallas, TX. February 2014.

Russell, G., Veletsianos, G., Lin, C., Craig, T., & Beth, B., "Local Practices and Experiences with Technology Tools Implemented to Support Problem-Based Learning." Poster, American Educational Research Association (AERA), April 2014.

Russell, G., Beth, B., Craig, T., Lin, C., & Veletsianos, G., "Thriving in Our Digital World- A CS Principles Course." Computer Science Teachers Association Conference (CSTA), July 2013.

Craig, T., Project-Based Learning: from Theory to Practice. UTeach Conference. Austin, TX. May, 2013.

Veletsianos, G., Craig, T., Beth, B., Russell, G., & Lin, C., "A First Iteration of a Pedagogical Model for Teaching Computer Science Through Problems." Poster, American Educational Research Association (AERA), San Francisco, Cali. April 2013.

Lin, C., Veletsianos, G., Beth, B., Russell, G., Craig, T., & Turner, K., "Thriving in Our Digital World!" NSF Computing Education for the 21st Century (CE21) Community Meeting, Portland, OR. January 2013.

Craig, T., "Development of 21st Century Skills: A Case Study of a PBL Chemistry Classroom." Carnegie Mellon's Learn Lab, Annual Learning Science Workshop. Pittsburgh, PA. July, 2012.

Craig, T., McKelvey, A., Kendrick, K., & Merced, P., "Project-Based Learning: From Pre-Service to Practice." UTeach Institute Annual Conference. Austin, TX. May, 2012.

Craig, T., Hawkins, S., & Crouch, H., "Critical Attributes of Project-Based Learning." Presented at NMSI- UTeach Institute Annual Conference. Austin, TX. May, 2010.

Craig, T., & Trinidad, J., TX "Airlines: A Top Flight Experience in PBL." Louisiana Networking of 21st Century Education Conference. Bunkie, LA. January, 2010.

Craig, T., Hawkins, S., Hart, S., & Crouch, H., "Critical Attributes of Project- Based Learning." UTeach Institute Annual Conference. Austin, TX. May, 2009.

Craig, T. & Trinidad, J., "PBL Strategies in Math and Science Classrooms" Teach Today, Transform Tomorrow T-STEM Best Practices Conference. South Padre Island, TX. January, 2009.

2. Invited Talks, Lectures, and Presentations:

3. Consultancies:

4. Workshops:

Craig, T., “Exploding Dots: A mathematical journey from arithmetic to the infinite.” Math Teachers’ Circle of Austin (MTCA). Austin, TX. November 2019.

Craig, T., “The Coastal Paradox.” Coastal Carolina University-Math Teachers Circle Fall Workshop. Myrtle Beach, SC. November 2017.

Craig, T. & Hoffman, V., “Fractions, Decimals, and Explosions, Oh My!” Coastal Carolina University- Math Teachers Circle Spring Workshop. Conway, SC. March 2017.

Ho, A. & Craig, T., “Triangles, Squares, and Segregation: Game theory and social issues.” Coastal Carolina University-Math Teachers Circle Fall Workshop. Conway, SC. November 2016.

Craig, T., “Exploding Dots: An investigative look at basic operations in our base- 10 number system.” Coastal Carolina University-Math Teachers Circle Summer Immersion Workshop. Conway, SC. August 2016.

Ho, A. & Craig, T., “A Strange Machine: Exploring composite functions.” Coastal Carolina University- Math Teachers Circle Summer Immersion Workshop. Conway, SC. August 2016.

5. Other Works not in Print:

a. Works "submitted" or "under review":

b. Works "in progress":

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Constructing Strong STEM Foundations, SC Dept. of Education Math Science Partnership Grant, University Grant Coordinator

Math Teachers Circle Startup Grant, Co-PI, $6,000
American Institute of Mathematics and Math for America.

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

3. Funded Internal Grants and Contracts:

Women in STEM Fellowship, Student Achievement Grant, co-PI, $200,000, Coastal Carolina University Conway, SC.

CCU Professional Grant for CCU- Math Teachers Circle, co-PI, $6,000, Coastal Carolina University Conway, SC.

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

D. Scholarly / Creative Fellowships, Awards, Honors:

E. Scholarly / Creative Professional Development Activities Attended:

F. Media Recognition:

IV. SERVICE

A. Institutional

1. University:

2020-2023 Texas Mindset Initiative (TxMI) Fellow, The University of Texas Austin, TX

2021-2023 Provost's Teaching Fellow, The University of Texas Austin, TX

2. College:

2020-2023 TIDES Mathematics Instruction Fellow, The University of Texas Austin, TX

3. Department/School:

2020-2022 Mathematics Department Online Instruction Team, The University of Texas Austin, TX

2017-2019 Undergraduate Math Advisor, Coastal Carolina University, Conway, SC

2017-2019 Mathematics Recruitment and Retention Committee Coastal Carolina University, Conway, SC

2017 Faculty Mentor for Undergraduate Research Coastal Carolina University, Conway, SC Mathematics Curriculum Committee Coastal Carolina University, Conway, SC

B. Professional:

2023-2024 Math Curriculum Adoption Committee, Kipp Texas Public Schools Austin, TX

C. Community:

D. Organization Memberships:

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

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

3. Funded Internal Service Grants and Contracts:

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

G. Service Professional Development Activities Attended: