TEXAS STATE VITA

I. Academic/Professional Background

A. Name and Title

Name: Dr. Michael Solem Title: Professor

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	1999	University of Colorado Boulder	Geography	The Diffusion, Adoption, and Effects of Instruction with the Internet in U.S. College Geography
MS	1995	Penn State University Park	Geography	Fire History of the Caribou Wilderness, CA
BS	1993	Penn State University Park	Earth Sciences	

C. University Experience

Position	*University*	*Dates*
Professor, Geography	Texas State University. San Marcos, TX, United States	September 1, 2019 - Present
Research Professor, Geography	Texas State University. San Marcos, TX, United States	March 1, 2017 - August 31, 2019
Assistant Professor, Geography	Southwest Texas State University. San Marcos, TX, United States	September 1, 2000 - August 31, 2003

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Educational Affairs Director / Deputy Director of Research and Education	American Association of Geographers, Washington, DC, United States	September 15, 2003 - March 1, 2017
Visiting Assistant Professor	Geography, University of Colorado Colorado Springs, Colorado Springs, CO, United States	August 1, 1999 - May 30, 2000
Adjunct Instructor	Geography, Shippensburg University, Shippensburg, United States	September 1, 1995 - May 31, 1996

II. TEACHING

A. Teaching Honors and Awards:

Award / Honor Recipient: Distinguished Teaching Achievement Award, National Council for Geographic Education.
October 2003

Award / Honor Recipient: Digital Sage Award, Texas State University.
April 2002

B. Courses Taught:

Texas State University:

GEO 4340 - FUNDAMENTAL THEMES IN GEO

GEO 5190 - INDEPENDENT STUDY

GEO 5309 - GEOGRAPHICAL ANALYSIS

GEO 5335 - DIRECTED RESEARCH

GEO 5344 - CURRICULUM, STANDS & ASSESSMEN

GEO 5344 - SEMINAR GEO CURRIC

GEO 5346 - INQUIRY TEACHING IN HUMAN GEO

GEO 5390 - INDEPENDENT STUDY

GEO 5393G - JOBS CAREERS PROF DEV IN GEOG

GEO 5393J - INQUIRE HUMAN GEO

GEO 5395 - PROB APPLIED GEO

GEO 7199B - DISSERTATION

GEO 7300 - ADV GEO RESEARCH

GEO 7346 - STNDRDS & ASSESSMT

GEO 7390 - INDEPENDENT STUDY

GEO 7393P - ADV SEM HUMAN GEO

GEO 7399B - DISSERTATION

GEO 7699B - DISSERTATION

GEO 7999A - DISSERTATION

GEO 7999B - DISSERTATION

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

Supervisor / Chair, Dissertation, "Weil", Status: Proposal. (September 2021 - Present). Geography and Environmental Studies, Texas State University.
Student(s): Brendan Vander Weil, Doctoral, Geography.

Member, Dissertation, "Serrano", Status: Proposal. (September 2021 - Present).
Student(s): Samantha Serrano, Doctoral, Geographic Education.

Supervisor / Chair, Dissertation, "Slaughter", Status: Proposal. (September 2021 - Present). Geography and Environmental Studies, Texas State University.
Student(s): Skylar Slaughter, Doctoral, Geographic Education.

Supervisor / Chair, Dissertation, "Palma", Status: Proposal. (September 1, 2020 - Present). Geography, Texas State University.
Student(s): Heather Palma, Doctoral, Geographic Education.

Supervisor / Chair, Dissertation, "KNOWLEDGE TO TEACH: ASSESSMENT OF THE IMPACT OF LEARNING OPPORTUNITIES BY GEOGRAPHY TEACHERS IN THE STATE OF TEXAS", Status: In Progress. (September 2020 - Present). Geography and Environmental Studies, Texas State University.
Student(s): Jan Rueschhoff, Doctoral, Geographic Education.

Member, Dissertation, "Nolan", Status: Proposal. (September 2020 - Present). Geography and Environmental Studies, Texas State University.
Student(s): Kelly Nolan, Doctoral, Geographic Education.

Supervisor / Chair, Dissertation, "AN ANALYSIS OF GLOBAL PERSPECTIVES WITHIN ADVANCED PLACEMENT HUMAN GEOGRAPHY", Status: In Progress. (September 1, 2020 - Present). Geography, Texas State University.
Student(s): Licia Paulus, Doctoral, Geographic Education.

Member, Dissertation, "Elikan", Status: Proposal. (September 2020 - Present).
Student(s): Lisa Elikan, Doctoral, Geographic Education.

Member, Dissertation, "Crane", Status: In Progress. (September 2020 - Present).
Student(s): Michelle Crane, Doctoral, Geographic Education.

Member, Dissertation, "Sink", Status: Proposal. (2020 - Present). University of Alabama.
Student(s): Carter Sink, Doctoral, Geography.

Member, Dissertation, "Huh", Status: Completed. (September 2020 - December 2023). Geography and Environmental Studies, Texas State University.
Student(s): Sojung Huh, Doctoral, Geography.

Supervisor / Chair, Applied Research Project, "EVIDENCE FROM NAEP 8th GRADE GEOGRAPHY DATA: IDENTIFYING AND FILLING THE ACHIEVEMENT GAP EQUITABLY FOR RACE AND GENDER", Status: Completed. (September 1, 2020 - May 2023). Geography, Texas State University.
Student(s): Allison Smith, Graduate, Geographic Education.

Supervisor / Chair, Applied Research Project, "STUDENT LEARNING GAPS BETWEEN WORLD GEOGRAPHY AND AP HUMAN GEOGRAPHY", Status: Completed. (September 2020 - May 2023). Geography, Texas State University.
Student(s): Anna Wheatley, Graduate, Geographic Education.

Member, Applied Research Project, "The Use of ArcGIS Online in a Contemporary AP Human Geography Classroom and its Impact on Student Spatial Awareness and Perception of Geography", Status: Completed. (September 1, 2020 - December 2022). Geography, Texas State University.

Student(s): April Bannert, Graduate, Geographic Education.

Member, Candidacy Exam, "IMPLEMENTATION OF POWERFUL GEOGRAPHY: TEACHER AND STUDENT EXPERIENCES AND OUTCOMES", Status: Completed. (September 2020 - December 2022).
Student(s): Michelle Crane, Doctoral, Geographic Education.

Member, Master's Thesis, "FOOD FOR THOUGHT: AN ANALYSIS OF METROPOLITAN FRAGMENTATION AND SCHOOL LUNCH DISPARITIES IN THE AUSTIN MSA", Status: Completed. (September 2020 - August 2022). Geography and Environmental Studies, Texas State University.
Student(s): Austin Crane, Graduate.

Member, Applied Research Project, "EARNED HONORS CREDIT IN GEOGRAPHY COURSES USING DIFFERENT ASSESSMENTS", Status: Completed. (September 2020 - May 2022). Geography and Environmental Studies, Texas State University.
Student(s): Mara Leane, Graduate, Geographic Education.

Member, Applied Research Project, "GEOSPATIAL TECHNOLOGY IN THE CO-TAUGHT HUMAN GEOGRAPHY CLASSROOM", Status: Completed. (September 2020 - May 2022). Geography and Environmental Studies, Texas State University.
Student(s): Taylor Loux, Graduate, Geographic Education.

Member, Candidacy Exam, "UNPACKING GEOGRAPHY TEACHERS' PEDAGOGICAL REASONING AND ACTION WHILE TEACHING SUSTINABLE DEVELOPMENT", Status: Completed. (September 1, 2020 - May 2022). Geography, Texas State University.
Student(s): Sojung Huh, Doctoral, Geographic Education.

Member, Applied Research Project, "Augmented Reality in Geographic Education", Status: Completed. (September 1, 2019 - May 2020). Geography, Texas State University.
Student(s): Eric Wilson, Graduate, MAG Geography.

Supervisor / Chair, Dissertation, Status: Completed. (2007). Geography, Texas State University.
Student(s): Cathy Springer, Doctoral, Geographic Education.

Supervisor / Chair, Dissertation, Status: Completed. (2006).
Student(s): Xiaomin Qiu, Doctoral, Geographic Education.

Member, Master's Thesis, Status: Completed. (2005). Geography, Texas State University.
Student(s): Waverly Ray, Graduate, Geographic Education.

Supervisor / Chair, Master's Thesis, Status: Completed. (2002).
Student(s): Amanda Ross, Graduate, Geographic Education.

Member, Dissertation, Status: Completed. (2001). Geography, Texas State University.
Student(s): Jeff Lash, Doctoral, Geographic Education.

D. Courses Prepared and Curriculum Development:

Course Proposal for Advanced Placement Geographic Information Science and Technology, Curriculum Development. Proposed: June 2017.

Additional Comments: Chair of AAG committee that developed a proposal for a new AP course in GIS&T. The proposal is under consideration at the College Board.

GEO 5393J: Inquiry in Human Geography, New Course, Texas State University. Approved: August 2020 - December 2020.

Additional Comments: Online course for the new online MAG-Geographic Education degree program.

GEO 5393G: Jobs, Careers, & Professional Development in Geography, New Course, Texas State University. Approved: July 2020 - August 2020.

Additional Comments: Online course for the new online MAG-Geographic Education degree program.

GEO 5344: Curriculum, Standards, & Assessment in Geography, Revise Existing Course, Texas State University. Approved: August 2019.

Additional Comments: Online course for the new online MAG-Geographic Education degree program.

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

Luzzadder-Beach, Sheryl (Principal), Solem, Michael (Co-Principal). Project GeoSTART, NASA, Federal, $92,834.00. (Funded: April 1, 2006 - December 31, 2007). Sponsored Research.

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

Solem, Michael (Principal), Boehm, Richard G (Co-Principal), Larsen, Thomas Barclay (Co-Principal), Zarodzney, J (Co-Principal), Thomas, Cathy.

Powerful Geography: A New Conceptual Approach to Teacher Professional Development, National Science Foundation, Federal. (Submitted: November 1, 2019). Grant.

III. SCHOLARLY/CREATIVE

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

1. Books:

c. Edited Books:

Refereed:

Muniz Solari, O. A., Solem, M., & Boehm, R. G. (2017). *Learning Progressions in Geography Education: International Perspectives.* Cham, Switzerland: Springer. Retrieved from https://bit.ly/2TFsiWthttps://bit.ly/2TFsiWt

Solem, M., Boehm, R. G., & Huynh, N. T. (2015). *Learning progressions for maps, geospatial technology, and spatial thinking: A research handbook.* Newcastle upon Tyne, UK: Cambridge Scholars Pub.

Solem, M., Foote, K., & Monk, J. (2013). *Practicing Geography: Careers for Enhancing Society and the Environment*. Upper Saddle River, NJ: Pearson Education. Retrieved from https://bit.ly/3dN2gHuhttps://bit.ly/3dN2gHu

Solem, M., Foote, K., & Monk, J. (2009). *Aspiring Academics*. Upper Saddle River, NJ: Prentice-Hall. Retrieved from https://bit.ly/3wqk7KWhttps://bit.ly/3wqk7KW

Solem, M., & Foote, K. E. (2009). *Teaching college geography: A practical guide for graduate students and early career faculty*. Upper Saddle River, NJ: Pearson Prentice Hall. Retrieved from https://bit.ly/3jPv9a4https://bit.ly/3jPv9a4

d. Chapters in Books:

Refereed:

Solem, M., & Foote, K. (2022). Valuing Mentoring: Jan Monk's Role in Creating a Community of Support for Early Career Researchers. In *Bridging Worlds - Building Feminist Geographies: Essays in Honour of Janice Monk*. Routledge.

Solem, M. (2022). The NAEP Geography Assessment: A Closer Look at U.S. Gaps and Trends in Geography Achievement. In *Assessment in Geographical Education: An International Perspective*. Springer. Retrieved from https://doi.org/10.1007/978-3-030-95139-9_7https://doi.org/10.1007/978-3-030-95139-9_7

Solem, M., Huynh, N. T., & Kerski, J. (2019). Teaching geography students about careers. In H. Walkington, J. Hill, & S. Dyer (Eds.), *Handbook for Teaching and Learning in Geography* (pp. 443–457). Cheltenham, UK: Edward Elgar. Retrieved from https://bit.ly/3hKFodbhttps://bit.ly/3hKFodb

Solem, M., & Zhou, W. (2018). The role of geography education for global understanding. In A. Demirci, R. Gonzalez, & S. Bednarz (Eds.), *Geography Education for Global Understanding* (pp. 59–69). Cham, Switzerland: Springer. Retrieved from https://bit.ly/2UtsuYKhttps://bit.ly/2UtsuYK

Solem, M. (2012). Geography Education: The Quest for Geographic Literacy and Beyond. In J. Stoltman (Ed.), *21st Century Geography: A Reference Handbook* (pp. 763–772). Thousand Oaks, CA, USA: SAGE Publications, Inc.

Solem, M. (2009). Geography and Global Education. In M. Solem & K. Foote (Eds.), *Teaching College Geography: A Practical Guide for Graduate Students and Early Career Faculty* (pp. 111–120). Upper Saddle River, NJ, USA: Pearson Prentice Hall.

2. Articles:

a. Refereed Journal Articles:

Larsen, T., Solem, M., Zadrozny, J., & Boehm, R. G. (2021). Contextualizing powerful geographic knowledge in higher education: Data-driven curriculum design to interweave student aspirations with workforce applications. *International Research in Geographical and Environmental Education*. Accepted / In Press. https://doi.org/10.1080/10382046.2021.1902622https://bit.ly/3jQGbMi

Solem, M., & Vaughan, P. W. (2024). Reducing Inequality in Student Outcomes in U.S. Geography Education: The Importance of Understanding Student Attitudes. *Education Sciences*, *14*(1). https://doi.org/https://doi.org/10.3390/educsci14010009

Solem, M., Boehm, R. G., & Zadrozny, J. (2023). Twenty Years of Advanced Placement® Human Geography: A Program Assessment. *The Professional Geographer*. Published. https://doi.org/10.1080/00330124.2023.2275313
Twenty Years of Advanced Placement Human Geography A Program Assessment-1.pdf

Zadrozny, J., Crane, M., Boehm, R. G., & Solem. (2023). Teaching Climate Change through Powerful Geography. *The Geography Teacher*, *20*(3), 141–149. https://doi.org/10.1080/19338341.2023.2261480
Teaching Climate Change through Powerful Geography-1.pdf

Brysch, C., & Solem, M. (2023). Advanced Placement Human Geography: Program Access and Effectiveness by Race, Ethnicity, and Gender, 2001-2020. *The Professional Geographer*. Published. https://doi.org/10.1080/00330124.2023.2261536

Solem, M., Vander Weil, B. P., & Choi, Y. (2023). Advanced Placement Human Geography: Program Access and Effectiveness by Grade Level, 2001-2020. *The Professional Geographer*. Published. https://doi.org/https://doi.org/10.1080/00330124.2023.2228870

Solem, M., & Vaughan, P. W. (2023). Factors that Affect Student Outcomes in U.S. Geography Education. *Annals of the American Association of Geographers*, *113*(6), 1383–1401. Retrieved from https://doi.org/10.1080/24694452.2023.2187341https://doi.org/10.1080/24694452.2023.2187341

Solem, M. (2023). Geography Achievement and Future Geographers. *The Professional Geographer*, *75*(2), 207–219. https://doi.org/https://doi.org/10.1080/00330124.2022.2081227https://doi.org/10.1080/00330124.2022.2081227

Solem, M. (2022). The NAEP Data Explorer: Digging Deeper into K-12 Geography Achievement and Why It Matters. *The Geography Teacher*, *19*(1), 12–21.

Larsen, T., & Solem, M. (2022). Conveying the applications and relevance of the Powerful Geography approach through humanitarian mapping. *The Geography Teacher*, *19*(1), 43–49.

Solem, M., Vaughan, P. W., Savage, C., & De Nadai, A. S. (2021). Student- and school-level predictors of geography achievement in the United States, 1994-2018. *Journal of Geography*, *120*(6), 201–211.

Solem, M. (2021). Geography, student outcomes, and education debts: What do geographers owe young people? *Journal of Geography*, *120*(6), 195–200.

Additional Comments: I guest edited this special issue. It features the results of a study, "Student- and school-level predictors of geography achievement in the United States, 1994-2018", which I wrote with my research team. This issue will includes four additional research articles based on NAEP data, written by TX State graduate students, that explore relationships between geography achievement and 'opportunity to learn' variables (e.g., curriculum coverage and exposure, teacher training, professional development, time spent learning geography, instructional modalities and resources, etc.).

Solem, M., Dony, C., Herman, T., Leon, K., Magdy, A., Nara, A., … Russell, R. (2021). Building educational capacity for inclusive geocomputation: A research-practice partnership in southern California. *Journal of Geography*. Published. Retrieved from https://doi.org/10.1080/00221341.2021.1933140https://doi.org/10.1080/00221341.2021.1933140

Solem, M., Vaughan, P. W., Savage, C., & De Nadai, A. S. (2021). Student- and School-Level Predictors of Geography Achievement in the United States, 1994–2018. *Journal of Geography*, *120*(6), 201–211. https://doi.org/10.1080/00221341.2021.2000009https://api.elsevier.com/content/abstract/scopus_id/85114360872

Solem, M., & Stoltman, J. (2020). The NAEP Geography Assessment: Will it come back? *Journal of Geography*, *119*(4), 136–139. Retrieved from https://bit.ly/3dPHlnohttps://bit.ly/3dPHlno

Walkington, H., Dyer, S., Solem, M., Haigh, M., & Waddington, S. (2018). A Capabilities Approach to Higher Education: Geocapabilities and implications for geography curricula. *Journal of Geography in Higher Education*, *42*(1), 7–24. Retrieved from https://bit.ly/3jQqFzUhttps://bit.ly/3jQqFzU

Solem, M., Stoltman, J., Lane, R., Bourke, T., Chang, C. H., & Viehrig, K. (2018). An Assessment Framework and Methodology for a Trends in International Geography Assessment Study (TIGAS). *Geographical Education*, *31*, 7–15. Retrieved from https://bit.ly/3wqbGzghttps://bit.ly/3wqbGzg

Solem, M. (2018). Bridging High School and Introductory Undergraduate Courses in Geographic Information Science and Technology. *Journal of Geography*, *117*(4), 165–173. Retrieved from https://bit.ly/3dP7Xovhttps://bit.ly/3dP7Xov

Solem, M., & Boehm, R. G. (2018). Research in geography education: Moving from declarations and road maps to actions. *International Research in Geographical and Environmental Education*, *27*(3), 191–198.

Boehm, R. G., Solem, M., & Zadrozny, J. (2018). The Rise of Powerful Geography. *The Social Studies*, *109*(2), 125–135.

Solem, M., & Boehm, R. G. (2018). Transformative research in geography education: the role of a research coordination network. *The Professional Geographer*, *70*(3), 374–382.

Solem, M., Kollasch, A., & Lee, J. (2017). Developing workplace skills and competencies in geography graduate programs. *Research in Geographic Education*, *19*(1), 10–42.

Solem, M. (2017). Finding a place for "place" in learning progressions research, *117*(3), 119–121. Retrieved from https://bit.ly/3ytYjQ5https://bit.ly/3ytYjQ5

Lambert, D., & Solem, M. (2017). Rediscovering the teaching of geography with a focus on quality. *Geographical Education*, *30*, 8–15. Retrieved from https://bit.ly/2TJnrndhttps://bit.ly/2TJnrnd

Solem, M., & Boehm, R. G. (2017). Transformative Research in Geography Education: The Role of a Research Coordination Network. *The Professional Geographer*. Published. https://doi.org/10.1080/00330124.2017.1385403

Summers, E. J., Zadrozny, J., Van Overschelde, J. P., Huynh, N. T., Solem, M., & Boehm, R. G. (2017). Integrating geospatial technology in pre-service teacher training programs. *Research in Geographic Education*, *19*(1), 102–126.

Solem, M. (2017). The NAEP Data Explorer: Digging deeper into K-12 geography achievement and why it matters. *The Geography Teacher*, *19*(1), 12–21. Retrieved from https://doi.org/10.1080/19338341.2021.1895864**Error! Hyperlink reference not valid.**

Huynh, N. T., Solem, M., & Bednarz, S. W. (2015). A road map for learning progressions research in geography. *Journal of Geography*, *114*(2), 69–79. Retrieved from https://bit.ly/2Viszzfhttps://bit.ly/2Viszzf

Lambert, D., Solem, M., & Tani, S. (2015). Achieving human potential through geography education: A capabilities approach to curriculum making in

schools. *Annals of the Association of American Geographers*, *105*(4), 723–735. Retrieved from https://bit.ly/3hlnX3Shttps://bit.ly/3hlnX3S

McKendry, J., Adams, J., & Solem, M. (2014). Employer perspectives on the value of geographic expertise, skills, and technologies. *Research in Geographic Education*, *16*, 23–39.

Schlemper, B., Adams, J., & Solem, M. (2014). Geographers in business, government, and nonprofit organizations: Skills, challenges, and professional identities. *The Professional Geographer*, *66*, 480–492. Retrieved from https://bit.ly/2UpOm7thttps://bit.ly/2UpOm7t

Klein, P., Pawson, E., Solem, M., & Ray, W. (2014). Geography education for "An Attainable Global Perspective." *Journal of Geography in Higher Education*, *38*(1), 17–27. Retrieved from https://bit.ly/3jPHSJYhttps://bit.ly/3jPHSJY

Bednarz, S., Heffron, S., & Solem, M. (2014). Geography standards in the United States: Past influences, future prospects. *International Research in Geographical and Environmental Education*, *23*(1), 79–89. Retrieved from https://bit.ly/3e7Rxb9https://bit.ly/3e7Rxb9

Solem, M., & Balachandran, C. (2014). Internationalizing geography education: a focus on India. *Journal of Geography in Higher Education*, *38*, 7–16. Retrieved from https://bit.ly/3hlat81https://bit.ly/3hlat81

Solem, M., Kollasch, A., & Lee, J. (2013). Career goals, pathways and competencies of geography graduate students in the USA. *Journal of Geography in Higher Education*, *37*(1), 92–116. Retrieved from https://bit.ly/3qN2mo0https://bit.ly/3qN2mo0

Solem, M., Lambert, D., & Sirpa, T. (2013). Geocapabilities: Toward an international framework for researching the purposes and values of geography education. *Review of International Geographical Education Online*, *3*(3), 214–229. Retrieved from https://bit.ly/3xzvWA5https://bit.ly/3xzvWA5

Ray, W., Muniz Solari, O. A., Klein, P., & Solem, M. (2012). Effective online practices for international learning collaborations. *Review of International Geographical Education Online*, *2*, 26–44. Retrieved from https://bit.ly/3AyOYIqhttps://bit.ly/3AyOYIq

Monk, J., Foote, K., & Solem, M. (2012). Rethinking postgraduate education in geography: International perspectives on improving practice. *Journal of*

Geography in Higher Education, *36*, 25–27. Retrieved from https://bit.ly/3hkLX7hhttps://bit.ly/3hkLX7h

Foote, K., Bednarz, S., Monk, J., Solem, M., & Stoltman, J. (2012). Rethinking postgraduate geography education in the USA: Issues and concerns. *Journal of Geography in Higher Education*, *36*, 57–64. Retrieved from https://bit.ly/3Azwxn6https://bit.ly/3Azwxn6

Solem, M., Hopwood, N., & Schlemper, B. (2011). Experiencing graduate school: A comparative analysis of students in geography programs. *The Professional Geographer*, *63*, 1–16. Retrieved from https://bit.ly/36eA9wZhttps://bit.ly/36eA9wZ

Solem, M., & Ray, W. (2011). Thinking geographically about Asia: Case studies and collaborative projects for high school and undergraduate students. *Education About Asia*, *16*(Spring 2011), 59–61.

Solem, M. (2011). Towards a scholarship of academic practice. *Journal of Geography in Higher Education*, *35*, 311–314. Retrieved from https://bit.ly/3dRePBThttps://bit.ly/3dRePBT

Solem, M., Lee, J., & Schlemper, B. (2009). Departmental climate and student experiences in graduate geography programs. *Research in Higher Education*, *50*(3), 268–292. Retrieved from https://bit.ly/3ADcRPohttps://bit.ly/3ADcRPo

Solem, M., & Foote, K. (2009). Enhancing Departments and Graduate Education in Geography: A disciplinary project in professional development. *International Journal of Researcher Development*, *1*(1), 11–28. Retrieved from https://bit.ly/2TGdZkshttps://bit.ly/2TGdZks

Ray, W., & Solem, M. (2009). Gauging disciplinary engagement with internationalization: A survey of geographers in the United States. *Journal of Geography in Higher Education*, *33*(1), 103–121. Retrieved from https://bit.ly/3qN4HiMhttps://bit.ly/3qN4HiM

Foote, K. E., & Solem, M. (2009). Toward better mentoring for early career faculty: Results of a study of US geographers. *International Journal for Academic Development*, *14*(1), 47–58. Retrieved from https://bit.ly/3hiXMdRhttps://bit.ly/3hiXMdR

Higgitt, D., Donert, K., Healey, M., Klein, P., Solem, M., & Vajoczki, S. (2008). Developing and enhancing international collaborative learning. *Journal of Geography in Higher Education*, *32*, 121–133. Retrieved from https://bit.ly/3dL9R9Chttps://bit.ly/3dL9R9C

Klein, P., & Solem, M. (2008). Evaluating the impact of international collaboration on geography learning. *Journal of Geography in Higher Education*, *32*(2), 245–267. Retrieved from https://bit.ly/36eZPtphttps://bit.ly/36eZPtp

Solem, M., Cheung, I., & Schlemper, M. B. (2008). Skills in professional geography: An assessment of workforce needs and expectations. *The Professional Geographer*, *60*(3), 356–373. Retrieved from https://bit.ly/2V58yMchttps://bit.ly/2V58yMc

Solem, M., Chalmers, L., Dibiase, D., Donert, K., & Hardwick, S. (2006). Internationalizing professional development in geography through distance education. *Journal of Geography in Higher Education*, *30*(1), 147–160. Retrieved from https://bit.ly/3hgX5BThttps://bit.ly/3hgX5BT

Solem, M., & Foote, K. E. (2004). Concerns, attitudes, and abilities of early-career geography faculty. *Annals of the Association of American Geographers*, *94*(4), 889–912. Retrieved from https://bit.ly/3jJP0Yahttps://bit.ly/3jJP0Ya

Solem, M., Bell, S., Fournier, E., Gillespie, C., Lewitsky, M., & Lockton, H. (2003). Using the Internet to support international collaborations for global geography education. *Journal of Geography in Higher Education*, *27*(3), 239–253. Retrieved from https://bit.ly/36jrJElhttps://bit.ly/36jrJEl

Solem, M. (2001). A scoring guide for assessing issues-based geographic inquiry on the Web. *Journal of Geography*, *100*, 87–94. Retrieved from https://bit.ly/3AuOSlnhttps://bit.ly/3AuOSln

Solem, M. (2001). Choosing the Network Less Traveled: Perceptions of Internet-Based Teaching in College Geography. *The Professional Geographer*, *53*(2), 195–206. Retrieved from https://bit.ly/3jQAm1ghttps://bit.ly/3jQAm1g

Taylor, A. H., & Solem, M. (2001). Fire regimes and stand dynamics in an upper montane forest landscape in the southern Cascades, Caribou Wilderness, California. *Journal of the Torrey Botanical Society*, 350–361. Retrieved from https://bit.ly/3wlodE4https://bit.ly/3wlodE4

Solem, M. (2000). Differential adoption of Internet-based teaching practices in college geography. *Journal of Geography*, *99*, 219–227. Retrieved from https://bit.ly/3ADhzwyhttps://bit.ly/3ADhzwy

Stainfield, J., Fisher, P., Ford, B., & Solem, M. (2000). International virtual field trips: a new direction? *Journal of Geography in Higher Education*, *24*(2), 255–262. Retrieved from https://bit.ly/36eWo5Fhttps://bit.ly/36eWo5F

Solem, M. (2000). The Virtual Geography Department project: assessing an agent of change in geography education. *Journal of Geography in Higher Education*, *24*, 353–364. Retrieved from https://bit.ly/3hFyl5ohttps://bit.ly/3hFyl5o

Hill, A. D., & Solem, M. (1999). Geography on the Web: changing the learning paradigm? *Journal of Geography*, *98*, 100–107. Retrieved from https://bit.ly/3hKFodbhttps://bit.ly/3hKFodb

b. Non-refereed Articles:

Solem, M., Boehm, R. G., & Zadrozny, J. (Accepted / In Press). Powerful Geography for Powerful Teaching and Learning in Social Studies. *Social Education*.

5. Reports:

Boehm, R. G., & Solem, M. (2020). *A Report on a Roundtable Discussion of the Future of Geography Education*. *Research in Geographic Education* (Vol. 22).

6. Book Reviews:

Solem, M. (2023, February 11). *Geographical Education*. Cambridge University Press. Retrieved from www.agta.asn.auwww.agta.asn.au

10. Other Works in Print:

Encyclopedia Entries:

Solem, M., & Stoltman, J. (2023). National Assessment of Educational Progress (NAEP) in Geography Education. In *Oxford Bibliographies*. Oxford University Press. https://doi.org/10.1093/OBO/9780199874002-0279

Solem, M., & Tani, S. (2017). Geography education, primary and secondary, international perspectives. In *AAG International Encyclopedia of Geography*.

Solem, M. (2017). Geography education, workforce trends, twenty-first-century skills, and geographical capabilities. In *AAG International Encyclopedia of Geography*.

Newsletters:

Solem, M., Vander Weil, B. P., Boehm, R. G., & Zadrozny, J. (2022, November 8). Powerful Geography at Work. *AAG Newsletter*. Retrieved from https://www.aag.org/powerful-geography-at-work/?_zs=dFaPk1&_zl=FElg8https://www.aag.org/powerful-geography-at-work/?_zs=dFaPk1&_zl=FElg8

Dony, C., Nara, A., Rey, S., Solem, M., & Herman, T. (2019). Encoding geography: Building capacity for inclusive geo-computational thinking with geospatial technologies. *California State University Geospatial Review*.

Op-Ed Perspectives in Newsletters:

Solem, M., Boehm, R. G., & Zadrozny, J. (2021). *Advanced Placement Human Geography: Time for a Reappraisal? AAG Newsletter* (December/January 2021-2022). Retrieved from http://news.aag.org/2021/12/december-perspective/http://news.aag.org/2021/12/december-perspective/

Additional Comments: This is the first piece to a larger Grosvenor Center funded research project looking at AP Human Geography data over the last 20 years.

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Solem, M., IGU, "Predicting Geography Achievement in the United States," Paris, France. (July 2022).

Solem, M., American Educational Research Association, "Student- and School-Level Predictors of Geography Achievement in the United States," San Diego, CA. (April 2022).

Solem, M., Choi, Y., American Association of Geographers, "Geography Achievement and Future Geographers." (February 2022).

Boehm, R. G., Blanchard-Boehm, D., Solem, M., Zadrozny, J., Applied Geography Conference, "The Evolution of Powerful Geography for Teaching it's Relevance and Importance," Virtual. (October 14, 2021).

Solem, M., American Association of Geographers (Virtual), "NAEP Geography Assessment Research." (2020).

Solem, M., Larsen, T., Society for Research into Higher Education, "Aligning Student Aspirations and Workforce Applications: A Curriculum Approach to Widening Participation," Newport, Wales. (December 11, 2019).

Boehm, R. G., Solem, M., Larsen, T. B., Zadrozny, J., NCGE/NCSS/TCSS Annual Meeting, "Powerful Geography: Spreading the Word," NCSS/NCGE/TCSS, Austin, TX. (November 2019).

Solem, M., "Powerful Geography," Nordic Geographical Society, Trondheim, Norway. (June 19, 2019).

Solem, M., UK Commission on Geographical Education, "Recontextualizing the Geography Curriculum," University College London Institute of Education. (April 15, 2019).

Solem, M., EUROGEO, "Trends in International Geography Assessment Study," Paris, France. (March 15, 2019).

Solem, M., HDCA Conference, "Powerful Geography," Buenos Aires, Argentina. (2018).

Solem, M., EUROGEO, "Trends in International Geography Assessment Study," Cologne, Germany. (2018).

Solem, M., EUROGEO, "Research Coordination Network," Amsterdam, Netherlands. (2017).

Zadrozny, J., Boehm, R. G., Solem, M., NCSS Annual Meeting, "Project Geography Online: Professional development for teachers on the GO," NCSS, San Francisco, CA. (November 18, 2017).

Boehm, R. G., Solem, M., CGE Lisbon Symposium, "Transformative Research in Geography Education," IGU, Lisbon. (October 27, 2017).

Solem, M., International Geographical Union, "GeoCapabilities," Beijing, China. (2016).

Solem, M., Geological Society of America, "GeoCareerMaps," Vancouver, Canada. (2014).

Solem, M., EUGEO, "GeoCapabilities," Rome, Italy. (2013).

Solem, M., International Geographical Union, "U.S.-Japan Collaborative Online International Learning in Geography," Kyoto, Japan. (2013).

Solem, M., International Geographical Union, "GeoCapabilities," Freiburg, Germany. (2012).

Solem, M., Society for Research in Higher Education, "Enhancing Departments and Graduate Education in Geography," Newport, Wales. (2011).

Solem, M., Society for Research in Higher Education, "Experiencing graduate school: A comparative analysis of students in geography programs." (2009).

Solem, M., Royal Geographical Society, "Skills in Professional Geography," London, England. (2008).

Solem, M., Oxford Conference on Preparing for Academic Practice, "Research on Faculty Development: A View from Geography." (2007).

Solem, M., American Association of Geographers, "Enhancing Departments and Graduate Education in Geography," Chicago, IL. (2006).

Solem, M., International Geographical Union, "Strategies for Teaching Geography through International Collaboration," Brisbane, Australia. (2006).

Solem, M., American Association of Colleges & Universities, "Technology and Global Geography," Ellicot City, MD. (2006).

Solem, M., Royal Geographical Society, "Supporting global learning in geography: Results of an international e-learning project," London, England. (2005).

Solem, M., International Geographical Union, "The Online Center for Global Geography Education: Research Plans and Progress," Glasgow, Scotland. (2004).

Solem, M., American Association of Geographers, "Concerns of early career faculty: Perspectives from the 2002 Geography Faculty Development Alliance," New Orleans, LA. (2003).

Solem, M., Geo-Nexus: Research in Geographic and Environmental Education, "Developing an online Center for Global Geography Education." (2003).

Solem, M., Sloan-C International Conference on Online Learning, "Delivering an online certificate program in Geographic Information Systems," Orlando, FL. (2002).

Solem, M., International Geographical Union, "Evaluating a Web-based project to build international collaborations for global geography education," Durban, South Africa. (2002).

Solem, M., National Council for Geographic Education, "Using the Internet to support international collaborative teaching and learning," Philadelphia, PA. (2002).

Solem, M., International Geographical Union, "Barriers and pathways to international collaborative learning on the Internet.," Helsinki, Finland. (2001).

Solem, M., National Council for Geographic Education, "The Step Up to Geography distance learning Master's in Geographic Education program," Vancouver, Canada. (2001).

Solem, M., Southwest Regional AAG, "Using Geographic Information Systems and the Internet to support problem-based learning," Ft Worth, TX. (2001).

Solem, M., American Association of Geographers, "Choosing the network less traveled: perceptions of Internet-based teaching in college geography," Pittsburgh, PA. (2000).

Solem, M., American Association of Geographers, "The Virtual Geography Department: assessing an agent of change in geography education," Honolulu, HI. (1999).

Solem, M., American Association of Geographers, "The societal implications of Geographic Information Science education," Boston, MA. (1998).

Solem, M., American Association of Geographers, "Modules as models: educational analogues for Internet-based instructional materials," Ft Worth, TX. (1997).

Solem, M., American Association of Geographers, "The Geography of Greenhouse Gas Emissions: A Hands-On Module," Charlotte, NC. (1996).

Solem, M., American Association of Geographers, "Fire history of the Caribou Wilderness, Lassen National Forest, CA," Chicago, IL. (1995).

2. Invited Talks, Lectures, and Presentations:

Zadrozny, J., Solem, M., Boehm, R. G., National Council for the Social Studies Annual Conference, "Designing authentic experiences: Powerful geography approach to

teaching and learning.," National Council for the Social Studies, Nashville, TN. (December 1, 2023).

Zadrozny, J., Solem, M., Boehm, R. G., American Association of Geographers Annual Conference, "Powerful Geography: Growing a more diverse geography discipline and workforce," American Association of Geographers, Denver, CO. (March 26, 2023).

Solem, M., "GeoProgressions," East China Normal University, Shanghai, China. (2015).

Solem, M., Annual Conference on Geographic Naming, "Center for Global Geography Education," Seoul, South Korea. (2012).

3. Consultancies:

Academic, National Geographic Society. (January 2011 - August 2013).

Additional Comments: **Roadmap to Geographic Literacy.** Served on the research committee for the National Geographic Society's Roadmap project to develop a long-term research agenda for understanding the nature of geographic literacy and how it can be developed through education in the geographical sciences.

Academic, National Research Council. (March 2011 - January 2013).

Additional Comments: **National Research Council Committee on the Future U.S. Workforce for Geospatial Intelligence**. Served on an interdisciplinary committee examining workforce development issues for geospatial intelligence careers.

Academic, Penn State University. (October 2007 - September 2009).

Additional Comments: Provided external evaluation services for a project producing open-access educational resources for teaching professional ethics in the geospatial technology industry.

Academic, University of Waikato, New Zealand. (February 3, 2009 - February 21, 2009).

Additional Comments: Investigated potential of using AccessGrid and EVO platforms for developing communities of practice for teacher professional development in social sciences disciplines.

Academic, Universidad de La Serena, Chile. (April 2006).

Additional Comments: Consulted university-led initiatives for building geographic educational collaborations across the Americas through web conferencing and related online collaborative technologies.

Academic, American Council on Education. (September 2004 - June 2005).

Additional Comments: **Where Faculty Live: Internationalizing the Disciplines**. Led the geography component of an American Council on Education project exploring the status and potential of internationalizing the undergraduate geography curriculum.

4. Workshops:

Boehm, R. G. (Organizer), Solem, M. (Organizer), Leadership Academy, "Leadership Academy - 2023," Grosvenor Center for Geographic Education, San Marcos, TX. (July 22, 2023).

Additional Comments: The Leadership Academy sponsored by the Grosvenor Center for Geographic Education brought together the online PhD students in geographic education along with mentors in the field of geography education for a full-day discussion on Powerful Geography. Attendees were grouped into three different research groups tasked with writing a manuscript that will be be submitted to the *Papers in Applied Geography.*

Boehm, R. G. (Organizer), Solem, M. (Organizer), Leadership Academy, "Leadership Academy - 2022," Grosvenor Center for Geographic Education, San Marcos, TX. (July 27, 2022).

Leadership Academy Briefing-1.pdf

Additional Comments: The Leadership Academy sponsored by the Grosvenor Center for Geographic Education brought together the online PhD students in geographic education along with mentors in the field of geography education for a full-day discussion on current events and topics.

Solem, M., Social Science Education Consortium, "NAEP Geography," Dublin, Ireland. (June 2022).

Boehm, R. G., Solem, M., CGE Lisbon Symposium, "Powerful Geography: A capabailities approach to non-specialist teacher education," IGU, Lisbon, Portugal. (October 27, 2017).

Solem, M., Various conferences, "Center for Global Geography Education (2004 - 2012)." (2012).

Solem, M., American Association of Geographers, "EDGE Professional Development (2005 - 2013)." (2005).

5. Other Works not in Print:

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

Edited Books:

Boehm, R. G., Solem, M., & Zadrozny, J. (Submitted / Under Review). *Powerful Geography: International Perspectives and Applications*. Springer Nature. (December 21, 2023)

Additional Comments: This book is currently underway. Started with preparations in 2021, a contract was signed in August 2022, the completed manuscripts were submitted December 21, 2023. Expected publication is in 2024.

Journal Articles:

Scholz, M., Scholz, R. W., & Solem, M. (Submitted / Under Review). Advanced Placement Human Geography Exam Participation and Performance in Texas School Districts. (January 2023)

b. Works "in progress":

Books:

Solem, M., Foote, K., Eaves, L., O'Lear, S., & Lee, J. (In Preparation; Not Yet Submitted). *Thriving in an Academic Career: An International and Interdisciplinary Guide for Early Career Faculty*. Taylor & Francis.

Journal Articles:

Warren, E. A., Hagelman III, R. R., & Solem, M. (In Preparation; Not Yet Submitted). "There's Not Many Times Where People Ask For Your Story": Using Critical Race Theory to Build Better Narratives Of the Experiences Of Environmental Professionals Of Color. *Annals of the American Association of Geographers*.

c. Other Works Not in Print:

Annual panelss:

Solem, M., American Association of Geographers, "Jobs, Careers, and Professional Development." (2020).

Keynote / Plenary Addresses:

Solem, M., IGU Commission on Geographical Education, "Geography, student outcomes, and education debts: What do geographers owe young people?," Charles University, Prague, Czech Republic. (August 10, 2021).

Boehm, R. G., Solem, M., Zadrozny, J., Larsen, T., Mohan, A., Morrill, R., Stoltman, J., NCGE Annual Meeting, "Powerful Geography," NCGE, Albuquerque, NM, United States. (July 28, 2017).

Panels:

Blanchard-Boehm, D. (Moderator), Boehm, R. G. (Panelist), Solem, M. (Panelist), Zadrozny, J. (Panelist), Cerney, D. (Panelist), Applied Geography Conference AGX 2022, "Powerful Geography in K-12 and University Teaching and Learning," Virtual. (October 20, 2022).

Boehm, R. G., Solem, M., Zadrozny, J., Brysch, C. (Panelist), Scholz, M. (Panelist), Seemann, J. (Panelist), American Association of Geographers Annual Meeting, "AP Human Geography," Virtual. (February 27, 2022).

Additional Comments: This panel session presented the findings of the AP Human Geography research project commissioned by the Grosvenor Center for Geographic Education

Boehm, R. G., Solem, M., Zadrozny, J., Vander Weil, B. P., American Association of Geographers Annual Meeting, "Powerful Geography," Virtual. (February 25, 2022).

Boehm, R. G., Solem, M., Zadrozny, J., American Association of Geographers, "Powerful Geography," virtual. (April 7, 2021).

Boehm, R. G., Solem, M., Larsen, T. B., Zadrozny, J., AAG Annual Meeting, "Powerful Geography: A Progress Report," AAG, Washington, DC. (April 4, 2019).

Panel Sessions:

Boehm, R. G., Solem, M., AAG Annual Meeting, "Transformative Research in Geography Education," AAG, Boston, MA, United States. (April 8, 2017).

Roundtables:

Boehm, R. G., Solem, M., NCGE Annual Meeting, "NCRGE Research Roundtable," NCGE, Albuquerque, NM, United States. (July 29, 2017).

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Solem, Michael (Co-Principal), Dony, Coline (Principal), Nara, Atsushi (Co-Principal), Rey, Serge (Co-Principal). Encoding Geography - Scaling up an RPP to achieve inclusive geocomputational education, National Science Foundation, Federal, $999,979.00. (Submitted: May 2020, Funded: January 1, 2021 - Present). Sponsored Research.

Solem, Michael (Supporting), Moss, David (Principal), Guida, Ross (Co-Principal). Geoscience Exposure and Training in Texas (GET Texas): High School through Undergrad, National Science Foundation, Federal, $345,773.00. (Funded: September 15, 2020 - Present). Sponsored Research.

Solem, Michael. Building Capacity for Educational Assessment Research in Geography, NSF, Federal, $293,369.00. (Funded: September 2019 - Present). Sponsored Research.

Dony, Coline (Principal), Solem, Michael (Co-Principal), Nara, Atsushi (Co-Principal), Rey, Sergio (Co-Principal). Encoding Geography: Building Capacity for Inclusive Geo-Computational Thinking with Geospatial Technologies., NSF, Federal, $299,989.00. (Funded: November 1, 2018 - Present). Sponsored Research.

Solem, Michael (Principal), Boehm, Richard G (Co-Principal). Research Coordination Network for Transformative Research in Geography Education., NSF, Federal, $400,000.00. (Funded: July 15, 2016 - Present). Sponsored Research.

Solem, Michael. Lou Reed's Geography: Archival Research at the Intersection of Music and Place, New York Public Library, State, $3,000.00. (Funded: October 29, 2023 - December 3, 2023). Sponsored Research.

Additional Comments: Short-term research fellowship.

Solem, Michael (Principal), Huynh, Niem Tu (Co-Principal), Boehm, Richard G (Co-Principal). Building Capacity for Learning Progressions Research in Geography, NSF, Federal, $292,491.00. (Funded: January 1, 2014 - January 1, 2016). Sponsored Research.

Solem, Michael (Principal). Researching and Improving Geography Teacher Preparation through Transatlantic Collaborations, NSF, Federal, $99,294.00. (Funded: July 2012 - December 31, 2015). Sponsored Research.

Solem, Michael (Principal), Huynh, Niem (Co-Principal), Boehm, Richard G (Co-Principal), Summers, Emily J (Co-Principal). Geospatial Resources, Materials and Tools for STEM Teacher Preparation, NSF, Federal,

$199,816.00. (Funded: August 15, 2014 - August 15, 2015). Sponsored Research.

Houlton, Heather (Principal), Solem, Michael (Co-Principal). Aligning Learning Outcomes and Workforce Competencies for Terminal Geography and Geology Master's Degree Programs, NSF, Federal, $109,842.00. (Funded: June 1, 2012 - June 1, 2014). Sponsored Research.

Solem, Michael. Internationalizing Geography Education: A Focus on Japan, US-Japan Foundation, Private / Foundation / Corporate, $53,000.00. (Funded: May 1, 2012 - May 2014). Sponsored Research.

Solem, Michael (Principal), Foote, Kenneth (Co-Principal), Monk, Janice (Co-Principal), McKendry, Jean (Co-Principal), Schlemper, Beth (Co-Principal). Beyond the Ivory Tower: Researching and Improving Geography Graduate Education for STEM Careers in Business, Government, and Non-Profit Organizations, NSF, Federal, $993,031.00. (Funded: September 1, 2009 - December 31, 2013). Sponsored Research.

Solem, Michael. Expanding U.S.-South Asia Collaborations in Geography Education, NSF, $46,184.00. (Funded: September 15, 2011 - August 31, 2013). Sponsored Research.

Solem, Michael. Expanding U.S.-Southeast Asia Collaborations in Geography Education, NSF, Federal, $48,400.00. (Funded: September 15, 2009 - August 31, 2011). Sponsored Research.

Solem, Michael, Klein, Phil (Co-Principal), Muniz Solari, Osvaldo A (Co-Principal). Developing an Online Center for Global Geography Education – Phase 2, NSF, Federal, $495,481.00. (Funded: September 1, 2007 - August 31, 2011). Sponsored Research.

Solem, Michael (Principal), Foote, Kenneth (Co-Principal), Monk, Janice (Co-Principal). Enhancing Departments and Graduate Education in Geography, NSF, Federal, $1,021,369.00. (Funded: April 1, 2005 - December 31, 2009). Sponsored Research.

Solem, Michael. Expanding Geography Education Networks in the Americas, NSF, Federal, $48,578.00. (Funded: April 1, 2007 - March 31, 2009). Sponsored Research.

Solem, Michael. Developing an Online Center for Global Geography Education, NSF, Federal, $152,548.00. (Submitted: May 15, 2003, Funded: May 15, 2003 - April 30, 2005). Sponsored Research.

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

Solem, Michael. Collaborative Research: Attracting Diverse Youth to Geography Learning Opportunities and Careers, NSF, $2,000,000.00. (Submitted: November 2023). Sponsored Research.

Solem, Michael, Straubhaar, Rolf Jacob. Powerful Geography, National Science Foundation, Federal. Grant.
NSF IGE Capabilities Project Description FINAL-1.pdf

Solem, Michael. I'm Radio Brooklyn: Lou Reed, Songwriting, and the Power of Place, National Humanities Center, Institutional (Higher Ed), $65,000.00. (Submitted: September 2023). Grant.

Solem, Michael. Geography Educational Resources for Powerful Teaching and Learning in Social Studies, IES, $1,404,555.00. (Submitted: September 2023). Sponsored Research.

Solem, Michael, Sarmiento, Eric Ryan, Vaughan, Phillip W. Predicting School Performance in Math and Reading: The Role of Urban Governance in the United States, Spencer Foundation, Private / Foundation / Corporate, $324,644.00. (Submitted: February 2023). Grant.

Solem, Michael (Principal), Vaughan, Phillip W (Co-Principal). Predicting Geography Achievement in the United States: The Role of Opportunity to Learn, NSF, Federal, $813,618.00. (Submitted: October 6, 2022). Sponsored Research.

Solem, Michael (Principal), Boehm, Richard G (Co-Principal), Straubhaar, Rolf Jacob (Co-Principal). Powerful Geography, NSF, Federal, $2,563,723.00. (Submitted: October 5, 2022). Sponsored Research.

Sarmiento, Eric Ryan (Co-Principal), Solem, Michael (Principal), Devine, Jennifer A (Co-Principal). Grounding geography curriculum: Piloting a research-practice partnership for racially equitable curriculum making in geography, National Science Foundation, Racial Equity in STEM Education, Federal, $392,672.00. (Submitted: March 2022). Grant.

Solem, Michael, Straubhaar, Rolf Jacob. Powerful Geography, Institute of Education Sciences (IES), Federal, $1,998,521.00. (Submitted: August 2020). Grant.

Boehm, Richard G, Solem, Michael. Powerful Geography, NSF-ECR, Federal, $1,500,000.00. Grant.

Boehm, Richard G, Solem, Michael. Powerful Geography, IES, Federal. (Submitted: August 2018). Grant.

Solem, Michael, Straubhaar, Rolf Jacob, Coryell, Joellen E. IGE: A Capabilities Approach to Innovating Graduate Education in Geography, National Science Foundation, Federal, $499,224.00. (Submitted: October 20, 2017). Grant.
NSF IGE Capabilities Project Description FINAL-1.pdf

Boehm, Richard G, Solem, Michael. A Capabilities Approach to teacher education and professional development in geography, NSF, Federal, $2,600,000.00. (Submitted: September 2017). Grant.

Boehm, Richard G, Solem, Michael. Powerful Geography, DOE, Federal, $1,400,000.00. (Submitted: August 2017). Grant.

Daniel, Kristy Lynn (Co-Principal), Boehm, Richard G (Principal), Solem, Michael (Co-Principal). Science Learning+: GeoCapabilities: An Approach to Informal STEM Learning in the Field, National Science Foundation, Advancing Informal Science Learning, $1,192,507.00. (Submitted: 2016). Grant.

3. Funded Internal Grants and Contracts:

Solem, Michael. Lou Reed's Geography: Archival Research at the Intersection of Music, Poetry, and Place, Texas State University, $7,820.00. (Submitted: October 7, 2022, Funded: January 2023 - December 2023). Sponsored Research.

D. Scholarly / Creative Fellowships, Awards, Honors:

Award / Honor Recipient: Excellence in Research Funding and Sponsored Programs, College of Liberal Arts, Texas State University.
2020

Award / Honor Recipient: Significant Achievement Award for Centers, College of Liberal Arts, Texas State University.
2020

Award / Honor Recipient: Research promoting excellence in geography teaching and learning, Journal of Geography in Higher Education.
April 2010

January 2006

Award / Honor Recipient: Doctoral dissertation research, National Council for Geographic Education.
August 2000

IV. SERVICE

A. Institutional

1. University:

Chair, National Center for Research in Geography Education. (September 1, 2019 - Present).

3. Department/School:

Chair, TX Geography Student Research Symposium. (September 1, 2021 - Present).

Member, Recruiting and Communication Committee. (September 1, 2021 - Present).

Member, Grosvenor Center for Geographic Education. (September 1, 2019 - Present).

Member, Distance Education Committee. (September 1, 2019 - May 31, 2021).

Member, Graduate Committee. (September 1, 2019 - May 31, 2021).

B. Professional:

Co-Chair, IGU Commission on Geographical Education. (August 1, 2020 - Present).

Coordinator / Organizer, AAG Geography Faculty Development Alliance. (January 1, 2018 - Present).

Senior Advisor for Geography Education, American Association of Geographers, Washington, DC. (March 1, 2017 - Present).

Editorial Review Board Member, Review of International Geography Education Online. (January 2013 - Present).

Editorial Review Board Member, Journal of Geography in Higher Education. (January 1, 2010 - Present).

Treasurer, IGU Commission on Geographical Education. (January 1, 2016 - August 1, 2020).

Member, Geography Education National Implementation Project. (January 2015 - December 31, 2019).

D. Organization Memberships:

American Educational Research Association (AERA). (2020 - Present).

National Council for the Social Studies. (2019 - Present).

European Association of Geographers (Europe). (2010 - Present).

International Geographical Union (IGU). (2000 - Present).

American Association of Geographers (AAG). (1994 - Present).

National Council for Geographic Education (NCGE). (1994 - Present).

Social Science Education Consortium (SSEC). (2022 – Present).

E. Service Honors and Awards:

Award / Honor Recipient: Gilbert M. Grosvenor Honors in Geographic Education, American Association of Geographers.
April 2015

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

Boehm, Richard G, Solem, Michael. GO West!, THECB and NGEF, State, $48,775.00. (Submitted: September 4, 2017, Funded: January 1, 2018 - December 31, 2018). Grant.

Gersmehl, Phil (Principal), Solem, Michael (Co-Principal). A Teacher's Guide to Modern Geography, US Department of Education, Federal, $515,927.00. (Funded: September 1, 2004 - August 31, 2008). Sponsored Research.