

Patricia Solís, PhD

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EDUCATION

- 1998 – 2002 **PhD in Geography**, University of Iowa
“Placing Development and Developing Places: Combating Desertification in Patagonia.”
- 1994 - 1996 **Master of Arts in Geography**, Kansas State University, cum laude. “Anticipatory Impacts of a Proposed Interbasin Water Transfer from Edwards County, Kansas.”
- 1989 - 1994 **Bachelor of Science in Physics**, Kansas State University
Bachelor of Arts in German, Kansas State University
- 1992 - 1993 *Eidgenössische Technische Hochschule (ETH), Zürich, Switzerland*

EMPLOYMENT

- 2018 – present Executive Director, Knowledge Exchange for Resilience, **Arizona State University**
- 2020 – present Associate Research Professor, School of Geographical Sciences and Urban Planning
- 2020 – present Faculty Affiliate, Urban Climate Research Center
- 2021 – present Senior Global Futures Scholar, Julie Ann Wrigley Global Futures Laboratory
- 2015 – present Co-Founder and Director, YouthMappers®, *consortium of 388+ universities with student chapters in 74+ countries, approximately 5,000 members*
- 2014 – 2018 Research Associate Professor of Geography, Department of Geosciences (*now adjunct*)
Co-Director, Center for Geospatial Technology, College of Arts and Sciences
Adjunct Associate Professor, Climate Science Center, Texas Tech University
- 2014 – 2016 Senior Research Associate, Research Development Team, Office of the Vice President for Research, Texas Tech University
- 2003 - 2014 Director of Outreach and Strategic Initiatives, Association of American Geographers
Director of Research and Outreach, 2005-2010, Deputy Director, 2003-2005
- 1997 – 2014 Independent External Evaluator, various organizations
- 1997 - 2006 Independent Grantwriting Consultant, Certified Grants Specialist
- 1998 - 2001 Assistant Study Director, Iowa Social Science Institute, University of Iowa
- 1996 - 1998 Community Development Director, City of Liberal, Kansas
Awarded \$2,626,000 in state / federal grants, administered an additional \$1,332,000
- 1994 - 1996 International Teams Coordinator, Community Service Program, Kansas State University
Projects in Mexico, Paraguay, Jordan, India, Costa Rica, Democratic Republic of Congo
- 1994 - 1996 Grantwriting Assistant, Kansas Center for Rural Initiatives, Kansas State University
- 1994 Volunteer Intern, Office of International Programs, Kansas State University

APPOINTMENTS

- 2022-2025 National Councillor, (Elected), American Association of Geographers
- 2021-2025 President, (Elected/Appointed), PanAmerican Institute of Geography and History of the Organization of American States (OAS), scientific diplomatic appointment, US Department of State
- 2021-2022 Toward a Vision for a New Data Infrastructure for Federal Statistics and Social and Economic Research in the 21st Century, National Research Council Panelist (Appointed)
- 2018-2021 Commission President, (Elected), PanAmerican Geography Commission of the PanAmerican Institute of Geography and History (PAIGH, OAS specialized organization)
- 2017-2020 Fulbright Specialist, Roster of Experts, World Learning

PUBLICATIONS

PEER-REVIEWED AND REFEREED PUBLICATIONS

In Production

Wentz, Elizabeth A., Chuyuan Wang, Patricia Solís, Aaron J. Dock, Carlos Aguiar Hernández, and Hank A. Courtright. “Planning for Heat Resilience and the Future of Residential Electricity Usage.” *Annals of the Association of American Geographers*. Accepted, in publication.

Shafiee Shakib, Maryam, Patricia Solís, and Kate Varfalameyeva. “MapSwipe for SDGs 3 & 13: Take urgent cartographic action to combat heat vulnerability of manufactured and mobile home communities.” *International Journal of Cartography*. Abstract accepted for Special Issue (10.3, 2024) entitled Cartography and Sustainable Development, full manuscript submitted, in review.

Li, Wenwen, Chia-Yu Hsu, Sizhe Wang, Yezhou Yang, Hyunho Lee, Anna Liljedahl, Chandi Witharana, Yili Yang, Brendan M. Rogers, Samantha T. Arundel, Matthew B. Jones, Kenton McHenry, and Patricia Solís. “Segment Anything Model Can Not Segment Anything: A View from AI-augmented Permafrost Mapping.” *International Journal of Applied Earth Observation and Geoinformation*. Submitted, in review.

Solís, Patricia, Bryan Hull, Diana Bowman, and Mary Alice Theroux. “Evidence-based Policy Innovation for Heat Resilience in Manufactured and Mobile Home Communities.” *Urban Studies Journal*. Abstract accepted for Special Issue on manufactured housing and manufactured home parks, full manuscript in preparation.

Solís, Patricia, Margaret Hinrichs, Michael Simeone, Erik Johnston, Maryam Shafiee Shakib, and Jieshu Wang. “Data Trust in Flux: Local Decision-makers’ Notions of Time and Pivoting during the Pandemic.” *Journal of Health and Social Behavior*. Manuscript in preparation.

Solís, Patricia. “The Coherence Framework: Ten Actions for Crafting Competitive Research Grant Proposals.” Chapter in Solem, Michael, Ken Foote, LaToya Eaves, Jongwon Lee, and Shannon O’Lear (Eds.) *Thriving in an Academic Career: An International and Interdisciplinary Guide for Early Career Faculty*. Taylor & Francis. Accepted, in final revision.

Published

Solís, Patricia, Katsiaryna Varfalameyeva, and Carlos Aguiar Hernandez. 2023. Heat Resilience among Mobile Home Owners in Arizona: Towards a Multi-Scale Approach to address Spatial Incongruence and Accountable Decision Making. *GeoJournal* 88(5):4991-5012. DOI:10.1007/s10708-023-10896-5.

Solís, Patricia and Diana Sinton. 2023. Geospatial Organizations and Programs, Internationally-based or with a Non-US Focus. *The Geographic Information Science & Technology Body of Knowledge* (2nd Quarter 2023 Edition). John P. Wilson (Ed.). DOI:10.22224/gistbok/2023.2.2.

Charley, Elisha, Katsiaryna Varfalameyeva, Abdulrahman Alsanad and Patricia Solís. 2023. “Mapping for Resilience: Extreme Heat Deaths and Mobile Homes in Arizona.” Chapter in Solís and Zeballos (Eds). *Open Mapping towards Sustainable Development Goals*. Springer Nature SDGs Series: 978-3-031-05184-5, pp. 241-249.

- Arriaga, Vivian, Adele Birkenes, Daniel Council, Mason Jones, Enith K. Lay Soler, John Sawyer McCarley, Emily Wulf, Calvin Zhang, Jean Parcher Wintemute, Nancy Aguirre and Patricia Solís. 2023. "Open Mapping with Official Cartographies in the Americas." Chapter in Solís and Zeballos (Eds). *Open Mapping towards Sustainable Development Goals*. Springer Nature SDGs Series: 978-3-031-05184-5, pp. 295-304.
- Anderson, Jennings, Chad Blevins, Nuala Cowan, Dara Carney-Nedelman, Courtney Clark, Michael Crino, Ryan Engstrom, Richard Hinton, Michael Mann, Brent McCusker, Rory Nealon, Patricia Solís and Marcela Zeballos. 2023. "Reflecting on the YouthMappers Movement." Chapter in Solís and Zeballos (Eds). *Open Mapping towards Sustainable Development Goals*. Springer Nature SDGs Series: 978-3-031-05184-5, pp. 366-370.
- Antwi, Kwaku, Conrad Lyford and Patricia Solís. 2023. "Rural Household Food Insecurity and Child Malnutrition in Northern Ghana." Chapter in Solís and Zeballos (Eds). *Open Mapping towards Sustainable Development Goals*. Springer Nature SDGs Series: 978-3-031-05184-5, pp. 47-56.
- Solís, Patricia and Marcela Zeballos. 2023. "Introduction." Chapter in Solís and Zeballos (Eds). *Open Mapping towards Sustainable Development Goals*. Springer Nature SDGs Series: 978-3-031-05184-5, pp. 1-9.
- Solis, Patricia, Gautam Dasarathy, Pavan Turaga, Alexandria Drake, Kevin Jatin Vora, Akarshan Sajja, Ankith Raaman, Sarbeswar Praharaj, and Robert Lattus. 2023. Understanding the Spatial Patchwork of Predictive Modeling of First Wave Pandemic Decisions by US Governors. Chapter 6 in Keough and Kaplan (Eds.) *Examining the COVID Crisis from a Geographical Perspective, First Edition*. Routledge 978-1-032-44713-1.
- Praharaj, Sarbeswar, Patricia Solís, and Elizabeth A. Wentz. 2022. Deploying geospatial visualization dashboards to combat the socioeconomic impacts of COVID-19. *Environment and Planning B: Urban Analytics and City Science* 50(5):1262-1279. DOI:10.1177/23998083221142863.
- Solís, Patricia and Amal Aljaddani. 2022. Modeling Education Deserts for Veterans and Military Families in the Southern United States. *Annals of the American Association of Geographers* 112(4):1084-1107. DOI:10.1080/24694452.2021.1947769.
- Hinrichs, Margaret and Patricia Solís. 2022. "Science and Technology perspectives on Environment and Development." Chapter in McCusker, Ahmed, Ramutsindela, and Solís (Eds). *The Routledge Handbook of Development and Environment*. Routledge. ISBN Hb: 978-1-138-32566-1, pp. 19-29.
- McCusker, Brent, Waquar Ahmed, Maano Ramutsindela, and Patricia Solís. 2022. "Introduction: Environment and Development in the 2020s." Chapter in McCusker, Ahmed, Ramutsindela, and Solís (Eds). *The Routledge Handbook of Development and Environment*. Routledge. ISBN Hb: 978-1-138-32566-1, pp. 3-16.
- Solís, Patricia, Sushil Rajagopalan, Lily Villa, Maliha Binte Mohiuddin, Ebenezer Boateng, Stellamaris Wavamunno Nakacwa, and María Fernanda Peña Valencia. 2022. Digital Humanitarians for the Sustainable Development Goals: YouthMappers as a Hybrid Movement. *Journal of Geography in Higher Education* 46(1):80-100. DOI: 10.1080/03098265.2020.1849067.

- Zhao, Qunshan, Ziqi Li, Dhruvil Shah, Heather Fischer, Patricia Solís and Elizabeth A. Wentz. 2021. Understanding the interaction between human activities and physical health under extreme heat environment in Phoenix, Arizona. *Health & Place* DOI:10.1016/j.healthplace.2021.102691.
- Solis, Patricia, Gautam Dasarathy, Pavan Turaga, Alexandria Drake, Kevin Jatin Vora, Akarshan Sajja, Ankith Raaman, Sarbeswar Praharaj and Robert Lattus. 2021. Understanding the Spatial Patchwork of Predictive Modeling of First Wave Pandemic Decisions by US Governors. *Geographical Review* 111(4):592-615. DOI:10.1080/00167428.2021.1947139.
- Solis, Patricia and Jean Parcher Wintemute. 2021. Strategic leadership in an era of change: challenges and advances of the PAIGH Geography Commission, 2014-2021. Liderazgo estratégico durante una era de cambio: los retos y avances de la Comisión de Geografía del IPGH, 2014-2021. *Revista Geográfica* 163:11-32. DOI: 10.35424/regeo.163.2021.1058.
- Phillips, Lora A., Patricia Solís, Chuyuan Wang, Katsiaryna Varfalameyeva, and Janice L. Burnett. 2021. Engaged Convergence Research: An Exploratory Approach to Heat Resilience in Mobile Homes. *Professional Geographer* 73(4):619-631. DOI:10.1080/00330124.2021.1924805
- Wang, Chuyuan, Patricia Solís, Lily Villa, Nayan Khare, Elizabeth Wentz, and Aaron Gettel. 2021. Spatial Modeling and Urban Analysis of Heat-related Morbidity in Maricopa County, Arizona. *Journal of Urban Health* 98(3):334-361. DOI:10.1007/s11524-021-00520-7.
- Rees, Amanda, Timothy Hawthorne, Dorris Scott, Eric Spears, and Patricia Solís. 2021. Toward a Community Geography Pedagogy: A Focus on Reciprocal Relationships and Reflection. *Journal of Geography* 120(1):36-47. DOI: 10.1080/00221341.2020.1841820.
- Wang, Carter, Li, Ziqi, Mathews, Mason, Praharaj, Sarbeswar, Karna, Brajesh, and Solís, Patricia. 2020. The spatial association of social vulnerability with COVID-19 prevalence in the contiguous United States. *International Journal of Environmental Health Research* 32(5):1147-1154. DOI: 10.1080/09603123.2020.1847258.
- Solis, Patricia, Jennings Anderson, and Sushil Rajagopalan. 2020. Open Geospatial Tools for Humanitarian Data Creation, Analysis, and Learning through the Global Lens of YouthMappers. *Journal of Geographical Systems* 23(4):599-625. DOI: 10.1007/s10109-020-00339-x.
- Shannon, Jerry, Katherine B. Hankins, Taylor Shelton, Amber J. Bosse, Dorris Scott, Daniel Block, Heather Fischer, LaToya E. Eaves, Jin-Kyu Jung, Jonnell Robinson, Patricia Solís, Hamil Pearsall, Amanda Rees, Aileen Nicolas. 2020. Community Geography: Toward a Disciplinary Framework. *Progress in Human Geography* 45(5):1147–1168. DOI: 10.1177/0309132520961468.
- Huynh, Niem Tu, Patricia Solís, Philippe Huot, Nwasinachi Menkiti, Aishah-Nyeta Brown, Dara Carney-Nedelman, Alan Coronado, and Kayla Soren. 2020. Becoming global-minded scientists: The short- and long-term impacts of international exchange. *Research in Geographic Education* 22(1):17-42. <https://rge.grosvenor.txstate.edu/Issues/Volume-22-Number-1.html>.
- Zhao, Qunshan, Chelsea Dickson, Jowan Thornton, Patricia Solís, and Elizabeth Wentz. 2020. Articulating strategies to address heat resilience using spatial optimization and temporal analysis of utility assistance data of the Salvation Army Metro Phoenix. *Applied Geography* 122(2020):1-10. DOI: 10.1016/j.apgeog.2020.102241.

- Oniosun, Temidayo, Balogun Ifeoluwa Adebawale, and Patricia Solís. 2020. Capitalizing on Geospatial Technologies to Solve Urban Waste in Akure Nigeria. In: Froehlich A. (Eds) *Space Fostering African Societies*. Southern Space Studies. Springer, Cham, pp. 31-46. DOI: 10.1007/978-3-030-32930-3_3.
- Brovelli, Maria Antonia, Marisa Ponte, Sven Shade, and Patricia Solís. 2019. Citizen Science in Support of Digital Earth. In *Manual of Digital Earth*, Huadong Guo, Michael Goodchild, and Alessandro Annoni (Editors). International Society for Digital Earth. Springer, Singapore, pp. 593-622. DOI: 10.1007/978-981-32-9915-3. [Open Access: book 1.04M, chapter 36k as of 6.2023]
- Warren, Stacy, Trevor M. Harris, Michael F. Goodchild, and Patricia Solís. 2019. Commentaries on “Evaluating the Geographic in GIS.” (Who is putting whose Geography into whose GIS, and how? Solís). *Geographical Review* 109(3):308-320. DOI: 10.1111/gere.12359.
- Solís, Patricia and Pat DeLucia. 2019. Exploring the impact of contextual information on student performance and interest in open humanitarian mapping. *Professional Geographer* 71(3):523-535. DOI: 10.1080/00330124.2018.1559655.
- Solís, Patricia, Niem Tu Huynh, Philippe Huot, Marcela Zeballos, Astrid Ng, and Nwasinachi Menkiti. 2018. Results of an Overdetermined Design for High School Girls’ Learning in Geospatial Technologies for Climate Change. *International Research in Geographical and Environmental Education* 28(2):151-174. DOI: 10.1080/10382046.2018.1513447.
- Coetzee, Serena, Marco Minghini, Patricia Solís, Victoria Rautenbach, and Cameron Green. 2018. Towards Understanding the Impact of Mapathons: Reflecting on YouthMappers Experiences. *International Archives of Photogrammetry and Remote Sensing Spatial Information Sciences XLII-4/W8:35-42*. DOI: 10.5194/isprs-archives-XLII-4-W8-35-2018.
- Hite, Rebecca, Patricia Solís, Lindsay Wargo, and Thomas Barclay Larsen. 2018. Exploring Affective Dimensions of Authentic Geographic Education using a Qualitative Document Analysis of Students’ YouthMappers Blogs. *Education Sciences* (Special Issue on Authentic Learning) 8(4):173. DOI:10.3390/educsci8040173.
- Solís, Patricia, Brent McCusker, Nwasinachi Menkiti, Nuala Cowan, and Chad Blevins. 2018. Engaging Global Youth in Participatory Spatial Data Creation for the UN Sustainable Development Goals: The Case of Open Mapping for Malaria Prevention. *Applied Geography* 98:143-155. DOI: 10.1016/j.apgeog.2018.07.013.
- Adames de Newbill, María, Ana Hernandez Pittí, and Patricia Solís. 2018. Historia de la Geografía en Panamá como una Integración de la Investigación y la Educación. In *Historia de la Geografía en América Latina y el Caribe*, Héctor F. Rucínque, (Ed). Bogota: ACOGE. Accepted, unknown Press.
- Solís, Patricia, Niem Tu Huynh, Daniel Carpenter, Maria Adames de Newbill, and Lynn Ojeda. 2017. Using an Authentic Project Based Learning Framework to support Integrated Geography Education linked to Standards and Geospatial Competencies. Special Issue on Transformative Research in Geographic Education, *Research in Geographic Education* 19(2):36-65.
- Solís Patricia, Jenni Vanos and Robert Forbis. 2017. The Decision-making / Accountability Spatial Incongruence Problem for Research linking Science and Policy. *The Geographical Review* 107(4): 680-704. DOI: 10.1111/gere.12240. [Honorable Mention, Best Paper of the Year.]

- Solís Caballero, Dario and Patricia Bennett Solís. 2016. Innovation-based Strategies for International Partnership Building in Higher Education: The Panama Model. In *Global Perspectives on Strategic International Partnerships*. New York: IIE/DAAD, pp. 187-201.
- Eksteen, Sanet, Serena Coetzee, Merrill Lyew, Miriam Olivares, and Patricia Solís. 2015. Geographic Information Science Education at African and Latin American Universities – A Comparative Review. *Proceedings of the 27th International Cartographic Conference*, 16th General Assembly, Rio de Janeiro, Brazil.
- Solís, Patricia, Marie Price, and María Adames de Newbill. 2015. Building Collaborative Research Opportunities into Study Abroad Programs: A Case Study from Panama. *Journal of Geography in Higher Education* 39(1):51-64. DOI: 10.1080/03098265.2014.996849.
- Hawthorne, Timothy, Patricia Solís, Brittney Terry, Marie Price, and Christopher L. Atchison. 2015. Critical Reflection Mapping as a Hybrid Methodology for Examining Socio-Spatial Perceptions of New Research Sites. *Annals of the Association of American Geographers* 105(1):22-47. DOI: 10.1080/00045608.2014.960041
- Solís, Patricia and Inés M. Miyares. 2014. Rethinking Practices for Enhancing Diversity in the Discipline. Featured FOCUS section on Diversity, Inclusion, and Participation in Geography: *The Professional Geographer* 66(2):169-172. DOI:10.1080/00330124.2012.735920. ISSN: 0033-0124.
- Adams, Joy, Patricia Solís and Jean McKendry. 2014. The Landscape of Diversity in U.S. Higher Education Geography. *The Professional Geographer* 66(2):183-194. DOI:10.1080/00330124.2012.735935. ISSN: 0033-0124.
- Solís, Patricia, Joy Adams, Leslie Duram, Susan Hume, Al Kuslikis, Victoria Lawson, Inés M. Miyares, David Padgett, Alex Ramirez. 2014. Diverse Experiences in Diversity at the Geography Department Scale. *The Professional Geographer* 66(2):205-220. DOI:10.1080/00330124.2012.735940. ISSN: 0033-0124.
- Sánchez Ayala, Luis D, and Patricia Solís. 2011. Introducción. *Geografía Humana: Conceptos Básicos y Aplicaciones*. Universidad de los Andes Bogotá, Colombia: Facultad de Ciencias Sociales, Ediciones Uniandes. pp. 1-5. ISBN: 978-958-695-713-7.
- Solís, Patricia, et al. (Editor, Lead author, 50 Co-authors, Refereed). 2011. *Climate Change and Hazards in the Americas: International Interdisciplinary Research Directions and Opportunities*. Washington, DC: Association of American Geographers. Translated and co-authored in Spanish as *Cambio Climático y Riesgos en las Américas: Directrices y oportunidades de investigación interdisciplinaria internacional*. ISBN 0615408338.
- Benimmas, Aïcha, Patricia Solís, and Joseph Kerski. 2011. The Impact of a Geographic Technologies Professional Development Institute on Middle Eastern and North African Teachers. *International Research in Geographical and Environmental Education Journal (IRGEE)*, 20(1):21-45. ISSN:1038-2046.
- Solís, Patricia and Michael Solem (Editors). 2010. *Aspirantes Académicos: Pasaje tomado del Libro de Recursos para Estudiantes Graduados y Profesores Universitarios Principiantes*. Washington, DC: Association of American Geographers. Reproduced with permission from Pearson Prentice-Hall. ISBN: 978-0-89291-000-7.

- Solís, Patricia, Michael Solem, and Noris Martínez. 2009. Geographic Collaboration in the Americas: Pathways and Prospects. (Includes abbreviated version in Spanish as Colaboración Geográfica en las Américas: Senderos y Perspectivas.) Chapter in *Geography Education: Pan American Perspectives*, eds. Muñiz-Solari and Boehm (Editors). San Marcos: Texas State University Press, p. 345-367. ISBN 978-1-61539-579-8.
- Solís, Patricia. 2009. Preparing Competitive Research Grant Proposals. Chapter in *Aspiring Academics: A Resource Book for Graduate Students and Early Career Faculty**, M. Solem, K. Foote, J. Monk (Eds). Upper Saddle River, New Jersey: Pearson Prentice-Hall, p. 137-164 ISBN-10: 0136048919. **[Note: Title was adopted as instructional material for courses, seminars, advising and informal mentoring in over two-thirds of US academic departments offering degrees in geography, 2013.]*
- Solís, Patricia. 2005. Geographic Learning for Sustainable Development. Chapter in *Handbook of Sustainability Research: A contribution from the World Academic Community to the UN Decade of Education for Sustainable Development*, Walter L. Filho (Ed). Frankfurt am Main: Peter Lang GmbH, pp. 679-704. ISBN 0-8204-7308-1.
- Solís, Patricia. 2005. Water as Rural Heritage: Reworking Modernity through Resource Conflict in Edwards County, Kansas. *Journal of Rural Studies* 21(1):55-66. ISSN: 0743-0167.
- Solís, Patricia. 2003. The Becoming of the Land of the Underground Rain: Place as Paradox in Liberal, Kansas. *The North American Geographer* 5:27-44. ISSN 1524-9735.
- Richardson, Douglas and Patricia Solís. 2004. Confronted by Insurmountable Opportunities: Geography in Society at the AAG's Centennial. *The Professional Geographer* 56(1):4-11. ISSN: 0033-0124.
- Bennett, Patricia. 2000. *Universities as Sites of Citizenship and Civic Responsibility Project: The University of Iowa Case Study and Site Report*. Philadelphia: International Consortium for Higher Education, Civic Responsibility and Democracy. Refereed Monograph.

BOOK EDITORSHIP

- Solís, Patricia, and Marcela Zeballos. (Eds.). 2023. *Open Mapping towards Sustainable Development Goals: Voices of Youth Mappers on Community Engaged Scholarship*. Springer Nature Sustainable Development Goals Series, ISBN: 978-3-031-05184-5. DOI:10.1007/978-3-031-05182-1. [Open Access: 237,000 as of 12.2023, Altmetric 422].
- National Academies of Sciences, Engineering, and Medicine. [Contributor, Panelist]. 2022. *Toward a 21st Century National Data Infrastructure: Mobilizing Information for the Common Good*. Washington, DC: The National Academies Press. DOI:10.17226/26688.
- McCusker, Brent, Waqar Ahmed, Maano Ramutsindela, and Patricia Solís (Editors). 2022. *The Routledge Handbook of Development and Environment*. Routledge. ISBN Hb: 978-1-138-32566-1 and eBook: 978-0-429-45031-0. <https://www.routledge.com/The-Routledge-Handbook-of-Development-and-Environment/McCusker-Ahmed-Ramutsindela-Solis/p/book/9781138325661>.

OTHER PUBLICATIONS

- Britton, Britnie, Katsiaryna Varfalameyeva, Kath Noble, and Patricia Solís. 2023. Integrated Resource Plan for Manufactured Home Power Outages in Arizona. Knowledge Exchange for Resilience Solutions Series. Tempe: Arizona State University. keep.lib.asu.edu/permalink/handle/pending.

- Hinrichs, Margaret M. and Patricia Solís (Editors). 2021. A Knowledge Exchange Playbook to Build Resilience. Tempe: Knowledge Exchange for Resilience, Arizona State University. Washington, D.C.: Global Council for Science and the Environment. <https://hdl.handle.net/2286/R.2.N.160839>
- Varfalameyeva, Katsiaryna, Patricia Solís, Lora Phillips, Elisha Charley, David Hondula, and Mark Kear 2021. Heat Mitigation Solutions Guide for Mobile Homes. Knowledge Exchange for Resilience Solutions Series. Tempe: Arizona State University. <https://hdl.handle.net/2286/R.2.N.162992>
- Parcher Wintemute, Jean, Patricia Solís, Nancy Aguirre, Vivian Arriaga, Adele Birkenes, Calvin Zhang, Daniel Council, Emily Wulf, Enith K. Lay Soler, Mason Jones, John Sawyer McCarley. 2021 “Volunteered Mapping and Data Governance in the Americas” Published for the Pan-American Institute of Geography and History, Mexico City, Mexico. Available at: bit.ly/VGIamericas.
- Esri Press, 2021. *Women and GIS, Volume 3: Champions of a Sustainable World*. Patricia Solís (Feature Profile), pp. 179-88. Redlands, California. ISBN 9781589486379.
- Robustelli, Tim, et al. [P. Solís, Contributor]. 2020. Displaced in America: Mapping Housing Loss Across the United States. Future of Land and Housing Series. New America: Washington, D.C. <https://bit.ly/newamericahousingloss>
- Solís, Patricia, Tommy Charles, Elena van Hove, and Christopher Beddow. 2020. Power Mapping brings Rapid Reliable Energy to Rural Communities. *Mapillary Blog*. 20 October. Available from <http://bit.ly/2XM2qqf>.
- Solís, Patricia, Elizabeth Wentz, and David Hondula. 2020. Resilience and Vibrant Communities. In *Creating Vibrant Communities: the 113th Arizona Town Hall Background Report*, Ford, Otten and Nelson (Eds). Vitalyst Health Foundation: Phoenix, Arizona. pp.28-24. Available from <https://bit.ly/2DissL9>.
- Solís, P., Li, W., et al. 2020. Trustworthy GeoAI for Resilience: A Multi-sector Conceptual Framework and Research Agenda [White Paper]. Arizona State University Knowledge Exchange for Resilience. Available from bit.ly/trustworthygeoai.
- Solís, Patricia. 2016/2002. Maps and Fences: How development produced Patagonian spaces. Published Doctoral Dissertation from Department of Geography, University of Iowa, of “Placing Development and Developing Places: Combating Desertification in Patagonia.” Saarbrücken: Lambert Academic Publishing. ISBN 33300-13044.
- Solís, Patricia. 2014-2016. Research Development Team Blog Series on Proposal Development Advice. *TTU Scholarly Messenger*. Lubbock: Texas, available from <http://www.depts.ttu.edu/vpr/scholarly-messenger/Archive/index.php>.
- Solís, Patricia, Dauna Coulter and Carolyn Fonseca. 2014. *My Community, Our Earth SERVIR Global Fellowship Program Capstone Fellows and Projects*, published by MyCOE and NASA Marshall Space Flight Center under Contract No. NNM12AA09C to Association of American Geographers, 48 pp. ISBN: 978-0-89291-005-2.
- Solís, Patricia (Author and Editor). 2012. *Geography in the Americas 2006-2012: Compilation of Session Conference Proceedings; Geografía en las Américas 2006-2012: Compilación de Memorias de Sesiones de Conferencias*. Associate Editor and Translator Astrid Ng. Panama City, Panama and Washington, DC: Association of American Geographers, 108 pp. ISBN: 978-0-89291-004-5.
- Solís, Patricia and Astrid Ng. 2012. *32 Strategies to Enhance Diversity in Your Geography Department or Program*. Washington, DC: Association of American Geographers, 56 pp. ISBN: 978-0-89210038.

- Richardson, Douglas and Patricia Solís. 2011. Confronted by Insurmountable Opportunities: Geography in Society at the AAG's Centennial. Special Virtual Issue: New Directions in Geography. (Featured online collection of leading geographical articles). *The Professional Geographer*, Routledge, ISSN: 1467-9272. www.tandf.co.uk/journals/explore/professional-geographer-virtual-issue.pdf.
- Association of American Geographers. 2005-2012. AAG Guide to Geography Programs in the Americas, various editions. [P.Solís, Contributor, Listing of Geography Programs in Latin America and Handbook of Membership.] ISBN 0892912685 9780892912681; OCLC 649374620, 471013962; 2010-2011 edition: ISBN 978-0-89291-273-5.
- Solís, Patricia and Joy Adams. 2011. AAG Departmental Data Survey Finds Modest Diversity Gains within Academic Geography. *AAG Newsletter* 46(4):4-5. ISSN 0275-3995.
- Solís, Patricia (Translator and Editor). 2010. English version of the National Strategic Plan, Secretary of Science, Technology, and Innovation of Panama (SENACYT), Panama City, Panama, 325 pp.
- Association of American Geographers. 2010. Using Information and Geospatial Technologies to Support Biodiversity Conservation Policy Options in Latin America. [P.Solís, Contributor, compilation and editing.] Washington, DC: AAG. ISBN: 978-0-89291-002-1.
- Solís, Patricia and Douglas Richardson. 2010. From the Meridian: Bowling Together: Participatory Geography at the AAG. *AAG Newsletter* 45(3):2-3. In Spanish: "Jugando Bolas." ISBN 0275-3995.
- Solís, Patricia and Douglas Richardson. 2009. AAG Enhancing Diversity: Progress and Plans. *AAG Newsletter* 44(2):2, 4, 12. ISSN 0275-3995.
- Solís, Patricia. Various. AAG Member Profile Series. *AAG Newsletter*, 2003-2008. ISSN 0275-3995.
- Solís, Patricia, Michael Solem, and Douglas Richardson. 2007. Enhancing Diversity in Geography. *AAG Newsletter* 42(4):1-2, 5. ISSN 0275-3995.
- Solís, Patricia. 2006. From the Meridian: AAG and International Outreach. *AAG Newsletter* 41(2):2, 4. ISSN 02 75-3995.
- Hermann, David and Shufro, Nick (Editors) (P.Solís, Contributor). 2006. *Mobilizing Resources: A Primer of Practical Ideas on How to Improve the Effectiveness of Public-Private Partnership Financial and Other Resource Requests*. And *Movilizando Recursos: Un Manual de Ideas Prácticas sobre Cómo Mejorar la Efectividad de las Solicitudes de Financiamiento y de otros Recursos de las Alianzas Público-Privadas*. Published by White Water to Blue Water Secretariat United Nations Environment Programme (UNEP) Caribbean Environment Programme. ISBN: 978-0-89291-001-4.
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- Solís, Patricia. 2004. "Un Mapa para un Futuro Sostenible." *El Panamá América*. Sunday, June 20, p. 4. OCLC #751719636.
- Bennett, Patricia. 1996. "Anticipatory Impacts of a Proposed Interbasin Water Transfer from Edwards County, Kansas." Unpublished Master's Thesis, Department of Geography. Manhattan: Kansas State University.

GRANTS AND PROJECTS

SUBMITTED, PENDING

- 2024 *Principal Investigator*, YouthMappers Global Consortium: Fix our Climate. Nominated by ASU Global Futures Laboratory to The Earthshot Prize, £1,000,000.
- 2023-25 *Co-Investigator*, NSF Engines: Type-2: Sustainability Innovation Engine for the Southwest (SIES). Principal Investigators Dr. Peter Schlosser and Dr. Diane Pataki. National Science Foundation, \$15,000,001.
- 2024-27 *Co-Investigator*, Heat Equity Analysis of Threats from Climate for Actionable Policy (HEATCAP). Principal Investigator Dr. Marisa Domino. HHS: National Institutes of Health (NIH), \$3,932,865.
- 2023 *Co-Investigator*, PIPP Phase II: Theme 4: Title: HARMONI-Catalyst: Human Activity Response Modeling. Principal Investigator Dr. Pavan Turaga. National Science Foundation, \$18,000,000.

AWARDED, CURRENT

- 2023-24 *Liaison to the Governor's Office of Resiliency*, providing expertise to support their coordination of a statewide response to Governor Hobb's Executive Order 2023-16 to prepare an Arizona Extreme Heat Preparedness Plan and establish the Interagency Resiliency Forum among ten+ state agencies, with Director Maren Mahoney, pro bono (KER) collaboration.
- 2018-24 *Executive Director*, Knowledge Exchange for Resilience, a university-community initiative to identify, create, and share the knowledge, experience, and connections to make Maricopa County a national paradigm for building resilient communities through social cohesion, economic prosperity, and environmental security. PIs Dr. Elizabeth Wentz, Dr. Michael Crow, Arizona State University. Awarded by Virginia G. Piper Trust, \$13,500,000.
- 2018-24 *Principal Investigator*, YouthMappers® University Consortium: Building Open Spatial Data for Economic Development and Community Resilience, a study to build economic development, digital transformation and community resilience by supporting global university students through the rapidly-growing YouthMappers consortium, at the time of award on 120 campuses in 38 countries, now on 388 campuses in 74 countries; to create and use high-quality geospatial data in places of interest to USAID. Administered by consortium of Arizona State University, Texas Tech University, West Virginia University, The George Washington University. Awarded by US Agency for International Development, \$5,500,000. Anonymous private donation, \$1,200,000 and State of Texas match approved \$600,000.
- Allocation of \$1,100,000 (2018): Emphasizing the effort includes understanding the impact of open mapping on development outcomes, expansion of the student humanitarian movement and quality attribute mapping, and focused efforts on the *Let Girls Map* campaign to address needs of female mappers and empowering digital engagement of women in developing regions; Higher Education Solutions Network.
 - Modification of \$100,000 (2019): Expanding YouthMappers Academy of online resources and the Validation Hub.
 - Modification of \$84,427 (2020): Dedicating resources for new communication needs.
 - Modification of \$450,000 (2020): Addition of another round of Leadership Fellows, global mapping campaigns, and extended digital operations.

- Modification of \$1,500,000 (2020): Develop and Launch “Everywhere She Maps” to feature Regional Ambassadors, Research Fellowships using gender-disaggregated data and Mapping Campaigns for the Women’s Global Development and Prosperity Initiative (W-GDP).
 - Modification of \$200,000 (2021): Expand quality control and validation functions, digital engagement, and for publications and dissemination support.
 - Modification of \$575,000 (2021): Water point mapping, sustainability, OSM Teams, and validation / visualization activities.
 - Modification of \$350,000 (2022): Food security and crop identification mapping pilot, expansion of training, digital and fieldwork campaigns and support systems.
 - Modification of \$129,073 (2022): Evolution of crowd source humanitarian mapping support systems for digital transformation and capacity building.
 - Modification of \$600,000 (2023): Heat and Health pilot methodologies, power mapping, train the trainers and workforce survey.
 - Modification of \$311,500 (2023): YouthMappers Academy and Fellows cohorts.
- 2023-26 *Co-I*, Arizona Research Center for Housing Equity & Sustainability (ARCHES). Awarded from Department of Housing and Urban Development; PI Deirdre Pfeiffer, \$3,000,000.
- 2023-26 *CoPI*, Southwest Urban Corridor Integrated Field Laboratory (SW-IFL). Awarded from Department of Energy, Office of Science, CoLead for Resilient Solutions with K. Ladd; PI Dave Sailor, \$25,000,001.
- 2023 *PI*, Scaling The Foreclosure and Eviction Analysis Tool (FEAT) in Arizona. Awarded from New America Foundation. With Shea Lamar and Lora Phillips, \$25,000.
- 2022-25 *Senior Personnel*, Collaborative Research: CyberTraining: Implementation: Medium: Cyber2A: CyberTraining on AI-driven Analytics for Next Generation Arctic Scientists. National Science Foundation, PI Wenwen Li, \$680,566.
- 2022-24 *CoPI*, PIPP Phase I: Computational foundations for bio-social modeling of unseen pandemics. National Science Foundation, Lead Pillar 4 for Policy and Augmented Decision Making; PI Pavan Turaga, \$1,323,466.
- 2022-23 *CoPI*, Accelerating Solar Mini-grid Deployment in Fiji. United States Trade and Development Agency (USTDA), PI Nathan Johnson, \$750,000.
- 2022-23 *CoPI*, A Socioeconomic Assessment of Future Geostationary Satellite Sensors to Improve Air-quality Impacts on Human Health and Wellbeing: A Case Study of Maricopa County, Arizona. Awarded from National Oceanic Atmospheric Administration (NOAA), PI Tim Lant, \$149,998.

PRIOR AWARDED RESEARCH COMPLETED

- 2021-23 *Principal Investigator*, YouthMappers Support to USDA-FAS Crop Mapping Program; pilot AI-relevant participatory methods in Tanzania, USDA Foreign Ag Service, \$74,997.
- 2020-22 *Principal Investigator*, Advancing Women’s Prosperity in the Workplace through Technical and Soft Skills in Environmental Science and Geospatial Technologies, to support SERVIR Hubs in West Africa, East Africa and Amazonia with materials and workshops. Subawarded by NASA under Women’s Global Development and Prosperity Initiative (W-GDP), with Amy Frazier, \$639,484.

- 2018-22 *Principal Investigator*, How the Crowdsourced Spatial Data Revolution is Being Used to Complement Official Data, to advance understanding about the role of open, volunteered spatial data to produce knowledge needed by public institutions for building resilient communities and infrastructure by integrating volunteered spatial data into official cartographies in the US, Mexico and Central America. Awarded by National Science Foundation, Science, Technology and Society Program, \$359,244.
- 2021-22 *Principal Investigator*, The National Map and YouthMappers Translation Project (Spanish Place Names methodology); from US Geological Survey, \$24,982.
- 2021-22 *Project Advisor*, The Air Around Us, an interdisciplinary effort to produce a prototype for measuring, visualizing, and creating awareness of air quality, with an eye toward enabling citizen scientists to take action in their local neighborhoods and communities, pilot funding from ASU Herberger Institute for Design and the Arts, PI Max Bernstein, \$50,000.
- 2020-21 *Senior Personnel*, Heat, Housing, and Health: Convergent Exposure and Thermal Insecurity in Mobile and Manufactured Housing, pilot to extend evidence base with residents in Mesa, Arizona. Awarded by University of Arizona Accelerate for Success, PI Mark Kear, \$44,973.
- 2018-21 *Principal Investigator*, Informal Learning Pathways through Mapathons for Military and Veteran Communities, a study to support military and veteran learners to bridge between competency skills acquired in service settings and desired transitions to STEM higher education opportunities or to the civilian workforce. Awarded by National Science Foundation, Advancing Informal STEM Learning, \$299,689.
- 2020-21 *Senior Personnel*, Active Tracking of Disease Spread in CoVID19 via Graph Predictive Analytics, role to engage community organizations in the study process. Awarded by National Science Foundation, RAPID Program, PI Gautam Dasarathy, \$199,449.
- 2018-19 *Principal Investigator*, Saving Middle Class Phoenixians on Heat-related Costs to Home and Well-being through Knowledge Exchange, using game elements to motivate 10,000 target households to increase annual income up to 10% by applying tailored heat-related solutions that save money or build assets. With The Nature Conservancy, Center for the Future of Arizona. Awarded by Schmidt Futures, \$50,000.
- 2019 *Co-Principal Investigator*, WomenConnect Challenge: Empowering Women and Girls to Create Gendered Data about Issues Affecting their Lives, to produce new geospatial data, maps, and a space for gender-inclusive action in communities in Peru, Tanzania, and Zambia. Award by USAID to Humanitarian OpenStreetMap Team, PI Tyler Radford, \$100,000.
- 2018 *Senior Personnel*, Immersive Virtual Reality Experience for Teaching, Learning and Researching, a multi-college project on campus to study how use of Oculus Rift and other technologies impacts the data quality, production, and learning experiences of undergraduates mapping for humanitarian tasks; funded by the CH Foundation, PI Ryan Litsey, \$17,989.
- 2017-18 *Principal Investigator*, Story Maps of Humanitarian Projects around the World, an in-reach effort to link digital media with geospatial technologies for integrative learning across campus to reach 200 undergraduates annually; funded by the Texas Tech University Center for Global Communication to support the TTU Quality Enhancement Plan, \$90,000.
- 2017-18 *Senior Personnel*, Enhancing agricultural productivity and market opportunities for smallholder farmers with a special focus on female smallholder farmers in Northern Ghana; funded by the US Department of Agriculture, Foreign Agricultural Service, PI Conrad Lyford, Texas Tech University, \$40,000.

- 2017 *Principal Investigator*, Spatial Data for Development Decisions; a geospatial study of situational knowledge and interactive mapping app for alumni relations and donor opportunities performed for the Office of the Dean, College of Arts and Sciences, Texas Tech University, internal funding, \$10,000.
- 2017 *Principal Investigator*, Spatial Decision Support for TTU Worldwide e-Learning; a pilot project exploring geographic dimensions of market potential and target user audience profiles for online academic programming and satellite offerings performed for the Office of the Provost, Texas Tech University, internal funding, \$10,000.
- 2015-19 *Principal Investigator*, Mapping for Resilience University Consortium of three founding universities: Texas Tech University, George Washington University (CoPI Nuala Cowan), and West Virginia University (CoPI Brent McCusker), to cultivate a generation of young people to become leaders in creating resilient communities, supporting and engaging students and other university actors in creating new, quality, localized, open geospatial data in unmapped places of the world, and conducting research and analysis using OSM data to address international development challenges. In its first 2 years of network building establishing *YouthMappers*, a consortium that grew to 99 universities in 30 countries and made more than 20 million map edits for projects such as disaster relief in Ecuador, malaria prevention in Mozambique and Kenya, food security in Ghana and Bangladesh, and peace building in Colombia. Funded by the US Agency for International Development, \$999,000.
- 2016-17 *Principal Investigator*, Project Based Learning and Authentic International Experiences for Open Geospatial Education in Secondary Settings, (CoPI Niem Huynh), to form an interdisciplinary international thematic research collaboration group and a pilot project exploring the role of GIS in PBL for science, technology and intercultural learning. Funded as participant grant under the National Science Foundation Research Coordination Network on Transformative Research in Geography Education, awarded to Michael Solem (PI), Association of American Geographers, \$20,000.
- 2015-20 *Coordinator*, Census of Geography in Latin America and the Caribbean: Multi-Year Collaborative Data Collection Project, conducted by the Instituto Panamericano de Geografía e Historia, Unión Geográfica Internacional - Comisión de Estudios Latinoamericanos, Encuentro de Geógrafos de América Latina, Association of American Geographers, Conference of Latin Americanist Geographers. <https://sites.google.com/site/censusofgeography>.
- 2013-15 *Principal Investigator*, Global Connections and Exchange / MyCOE Youth TechCamps Program, a series of 3 academic workshops for 120 secondary school students in Bolivia, Panama, and South Africa on GeoTechnologies for Climate Change & Environment using online mapping, community GIS, mobile GPS, crowdmapping; funded by US Department of State Bureau of Educational and Cultural Affairs Youth Programs Division; with Galindo Foundation and Technological University of Panama (Panama); Universidad Mayor de San Andres (Bolivia); EIS-Africa and University of Pretoria (South Africa); \$300,000.
- 2012-16 *Co Principal Investigator*, Engaging United States Scholars in International Geographic Research and Scientific Leadership: Support for Participation in International Geographical Union Events, 2012-2016, for approximately 145 attendees to Germany, Japan, Poland, Russia, & China conferences, National Science Foundation, PI Doug Richardson, \$208,058.
- 2012-14 *Principal Investigator*, MyCOE / SERVIR Partnership, developing local capacity and professional and scientific support to teams of university students and faculty/local mentors in community-based research projects in Central America, East Africa, Himalaya, South Africa, and Asia; with funding from National Aeronautics and Space Administration (NASA) and in collaboration with USAID, SERVIR, RCMRD, ICIMOD, and others; \$799,197.

- 2011-14 *Principal Investigator*, Catalyzing Research in Geographies of Broadening Participation, organizing a disciplinary focus of perspectives and scholarly capacity to address the science of broadening participation efforts at the national level, through a creative scholarly retreat, a research agenda, and publishable manuscripts, National Science Foundation Geography and Spatial Sciences Division. \$100,000.
- 2009-14 *Designated Point of Contact*, United Nations Observer Organization Designation (AAG), organizing official representation to the Conference of the Parties of the United Nations Framework Convention on Climate Change, including COP-15 in Copenhagen, Denmark; COP-16 in Cancun, Mexico; COP-17 in Durban, South Africa; COP-20 in Lima, Peru.
- 2011-13 *Principal Investigator*, My Community, Our Earth: Global Connections and Exchange Program, empowering youth and their teachers to increase environmental, geographic, technological and cultural literacy for 150 teachers in 20+ secondary schools in the United States, Bolivia, Ghana, Nicaragua, and the Philippines using social networking, online mapping, and award-winning content modules on Climate Change, Green Economy, and Food Security; US Department of State Bureau of Citizen Exchanges, Youth Programs Division. \$425,000.
- 2011-12 *Co Principal Investigator*, Engagement in the Rio+20 Conference Anniversary of the Earth Summit, MyCOE partnership activities focusing on food security, sustainability, and geographic technologies. US Department of Agriculture, PI Doug Richardson, \$27,454.
- 2011-12 *Coordinator*, Mapping the Disciplinary Terrain of Geography in Latin America and the Caribbean: Collaborative Data Collection and Spatial Analysis, conducted by the Association of American Geographers (AAG), the PanAmerican Institute of Geography and History of the Organization of American States (PAIGH-OAS), and the International Geographical Union (IGU) in coordination with PAIGH Geography Commission and national geographic institutes; with Isis Tejada (Panama National Geographic Institute "Tommy Guardia"), Irasema Alcántara Ayala (IGU Vice President), and Astrid Ng (AAG).
- 2009-12 *Principal Investigator*, Departments and Underrepresented Students ALIGNED: Addressing Locally-tailored Information Infrastructure & Geoscience Needs for Enhancing Diversity, a three-year proof-of-concept national program, combining a spatial information system and an online clearinghouse of materials for increasing participation of underrepresented groups in geography/geosciences, funded by NSF Opportunities for Enhancing Diversity in the Geosciences Program, \$199,276 and supplemental RAPID funding of \$31,579.
- 2009-11 *Co-Principal Investigator*, Beyond the Ivory Tower: Researching and Improving Geography Graduate Education for STEM Careers in Business, Government, and Non-profit Organizations, project funded by National Science Foundation Research and Evaluation on Education in Science and Engineering (REESE), PI Michael Solem, \$993,031.
- 2009-11 *Senior Personnel*, Quantitative Social Science Digital Library (QSSDL) Pathway for the National Science Digital Library, under lead institution at the Inter-University Consortium for Political and Social Research at the University of Michigan project funded by National Science Foundation as subaward to AAG, \$97,931.
- 2009-11 *Principal Investigator*, MyCOE Geographic Learning for Biodiversity Initiative in Africa, supporting teams of university students and faculty/local mentors in community-based research projects and capacity building in 9 countries; with funding from National Aeronautics and Space Administration (NASA) and in collaboration with USAID, SERVIR, RCMRD, EIS-Africa, ESRI, and others; \$200,000; and with support from NSF Office of International Science & Engineering (OISE) to integrate US participation; \$50,227.

- 2009-11 *Principal Investigator*, Institute for Integration of Research on Climate Change and Hazards in the Americas, AAG as lead with PAIGH (OAS), USGS, National Communication Association (NCA), and UNEP-LAC to co-organize two-week long workshop in Panama City, Panama, co-hosted with UTP Office for Research, with Interdisciplinary team of 11 expert instructor-mentors from the US, Panama, Chile, Brazil, and Mexico to offer lectures, demonstrations, discussions, and work sessions at the advanced graduate and post-doctoral level to up to 50 students from US and region, funded by National Science Foundation PanAmerican Advanced Studies Institute (PASI), \$99,563.
- 2009-10 *Project Coordinator*, Developing Latin American GIS&T Cyberinfrastructure for Innovation and Economic Development, funded by the InterAmerican Development Bank's Knowledge Partnership Korea Fund for Technology and Innovation with Secretary of the National Bureau of Science, Technology and Innovation in Panama (SENACYT), \$99,995.
- 2009-10 *Senior Personnel*, Enhancing Knowledge for Establishing Ecosystem Conservation Priorities in the Neotropics by Integrating Biodiversity and Geospatial Data, funded by the JRS Biodiversity Foundation to the InterAmerican Biodiversity Information Network, headquartered at the City of Knowledge, Panama; in partnership with AAG for capacity building and outreach portions of the project, \$185,000.
- 2009 *Coordinator*, AAG Journals Exchange Program, brokering retiring geographers or estate collections of books and journals from US scholars to be shipped internationally to departments and libraries ; arranged shipments to Mexico, Panama, Kenya, Uganda, Pakistan, donations in kind.
- 2008-10 *Co Principal Investigator*, Enhancing U.S. Scientific Leadership and Geographic Research: International Collaboration in the Middle East, Travel Support for Participants to the Congress of the International Geographical Union, Tunis, Tunisia, and Tel Aviv, Israel, National Science Foundation, PI Doug Richardson; Awarded \$135,450 plus \$18,403.
- 2008-10 *External Evaluator*, Ho'okuleana Stream Monitoring Project, Alaka'ina Foundation's Hawaii Source Education Outreach (HSEO) Digital Bus Program, three-year grant from Office of Hawaiian Affairs, \$116,135.
- 2008-09 *Project Developer, Grantwriter and External Evaluator*, Office of Research, Technological University of Panama, Using ICTs to improve Income and Productivity in the Urban Informal Sector of the Economy: A Case Study and Pilot Project in Panama City, grant from the International Development Research Center (IDRC), \$181,222.
- 2007-08 *Principal Investigator*, MyCOE Geographic Learning for Biodiversity Initiative in Central America and the Greater Caribbean, supporting university students and faculty/local mentors in community-based research projects and capacity building in 6 countries; Workshop at UTP in Panama. Funding from US Agency for International Development in collaboration with USGS and ESRI, \$135,992.
- 2006-08 *Principal Investigator*, Geography and GIS Supporting STEM Education in the Muslim World, materials adaptation and capacity building; \$160,907 grant from the US Department of State to the MyCOE Partnership for workshop in Tunisia; \$118,929 grant awarded for activities in Philippines.
- 2006-07 *Principal Investigator*, Advancing Academe: A Multidimensional Investigation of Geography in the Americas (AAMIGA), Hosted by the City of Knowledge. NSF Award No. OISE-0601745. National Science Foundation International Research Fellowship Program, \$76,453.

- 2005-09 *Grant Manager*, Decade of Behavior Distinguished Lecture Series Grants in 2005, 2006, 2008, and 2009; Decade of Behavior Distinguished Research Award 2006, totaling \$16,000.
- 2005-08 *Senior Personnel*, “Defining and Communicating Industry Workforce Demand: A Pilot, Experimental and Demonstration Program for the High-Growth Geospatial Technologies Industry U.S. Department of Labor Employment and Training Administration to AAG and GITA; PI Doug Richardson; \$700,000.
- 2005-08 *Senior Personnel*, Enhancing Departments and Graduate Education in Geography (EDGE), National Science Foundation Research on Learning and Education program, PI Michael Solem; \$980,383.
- 2005-06 *Principal Investigator*, MyCOE Geographic Learningship in the US Gulf and Greater Caribbean, supporting undergraduates in community-based research projects in the US, Puerto Rico, Honduras, Jamaica, and Panama; Funding from US Department of Agriculture, US Geological Survey and US Agency for International Development, \$162,778.
- 2004-14 *Program Manager*, AAG Grants and Awards Programs, set of 23 competitive funding programs and management of half a million dollars in assets.
- 2004-07 *Affiliated Researcher*, Social Science PhDs Five+ Years Out, lead by University of Washington Center for Innovation and Research in Graduate Education, Ford Foundation.
- 2004 *Project Director*, Coastal and Marine Restoration and Cleanup in the Caribbean Sea, Panama, in collaboration with CATHALAC Water Center for the Humid Tropics, and Smithsonian Tropical Research Institute with funding from The Ocean Fund, \$40,000.
- 2004 *Project Coordinator*, Exhibit production for InterAmerican Development Bank Environment Week highlighting geographic applications for sustainable development, with \$3,000 in funding and in collaboration with The Nature Conservancy, International Center for Tropical Agriculture, Smithsonian Institution Amazon GIS, ESRI.
- 2004 *Research Associate*, Internationalizing the Disciplines: Where Faculty Live, project of the American Council on Education with funding from the Carnegie Foundation, \$8,000.
- 2004 *Grant Manager*, Travel Support for Participants to the Congress of the International Geographical Union, Glasgow, Scotland, and Brisbane, Australia, National Science Foundation; PI Ronald Abler, \$80,000.
- 2004 *Project Director*, Training Workshops and Geographic Pedagogical Resources for the Digital Bus (My Community, Our Earth), with funding from the Office of Naval Research \$26,000 and managing partnership with US Geological Survey, ESRI, and the GLOBE Program.
- 2003-08 *Secretariat Director and Partnership Liaison*, My Community, Our Earth: Geographic Learning for Sustainable Development, an international partnership from the World Summit on Sustainable Development; procurement and administration of more than \$290,000 in partnership funding from US Department of Agriculture, US Forest Service, National Oceanic and Atmospheric Administration.
- 2003-05 *Diversity Task Force, Liaison*, Managed committee activities and daily tasks for enhancing diversity within geographic discipline and Association of American Geographers, including conducting departmental surveys and development of online resource clearinghouse.
- 2003 *Grant Manager*, AAG Centennial Plenary Speaker support of \$3,500 from Decade of Behavior Distinguished Lecture Series.

- 2000 *Principal Investigator*, Center for Global and Regional Environmental Research, Research Travel Grant.
- 2000 *Principal Investigator*, University of Iowa Student Government, Research Travel Grant.
- 2000 *Principal Investigator*, Crossing Borders Program, Ford Foundation, Travel/Language Grant.
- 2000 *Principal Investigator*, Department of Geography, University of Iowa, Summer Research Grant.
- 2000 *Research Associate*, “Universities as Sites of Citizenship and Democracy.” National Science Foundation and Council of Europe, University of Pennsylvania.
- 1998 *Associate Investigator*, “Muskie and Freedom Support Act Graduate Fellowship Program Evaluation.” United States Information Agency, Iowa Social Science Institute, PI Arthur Miller.
- 1998 *Associate Investigator*, “The Impact of Foreign Exchange Programs on Democratic Values.” Smith Richardson Foundation, Iowa Social Science Institute, University of Iowa, PI Arthur Miller.
- 1999/01 *Associate Evaluator*, Industry/University Cooperative Research Centers at University of Iowa and University of Texas at Austin, National Science Foundation, PI Arthur Miller.
- 1994 “Microenterprise Initiatives in Rural Development.” Economic Development Administration, Kansas Center for Rural Initiatives, Kansas State University, PI Carol Peak.
- 1994-95 “International Teams.” Educational Opportunity Fund, Community Service Program, KSU.
- 1996 “International Exchange Support for Kansas Leadership Teams.” Hansen Foundation and Rotary International, Community Service Program, Kansas State University.

KEYNOTE AND MAJOR INVITED COLLOQUIA PRESENTATIONS

- 2023 100th Authorities Meeting and General Assembly, Official Diplomatic Representation as President of the PanAmerican Institute of Geography and History. PAIGH, October 28 – November 3, Santo Domingo, Dominican Republic. Honored as Distinguished Visitor by the Mayor of the City of Santo Domingo.
- 2023 “The Power of Mapping as Knowledge Exchange for a more Resilient Future.” Invited Keynote Address, International Cartographic Conference of the ICA. August 16, Capetown, South Africa.
- 2022 Authorities Meeting and General Assembly, Official Diplomatic Representation as President of the PanAmerican Institute of Geography and History. PAIGH, October 23-29, Quito, Ecuador.
- 2022 “YouthMappers: a Global Youth Movement on Open Mapping for Humanitarian and Development Action.” Invited Keynote, FOSS4G, August 24, Florence, Italy.
- 2022 “Open Mapping for Resilience: Local Insights from a Global Youth Movement.” Invited Colloquium Speaker; University of Colorado at Boulder, Department of Geography, March 4, Online to Boulder, Colorado.
- 2021 “Everywhere They Map, They Make a Difference,” Invited (virtual) speaker, TechChange, Global Digital Development Forum, May 5, Online to Washington, DC.
- 2021 “Mapping for Resilience: building geographic approaches for equitable futures,” Invited (virtual) Keynote Speaker, University of Arizona School of Geography and Development Colloquium, April 30, Online to Tucson, Arizona.

- 2020 “The inequitable toll of a pandemic colliding with extreme heat,” Invited (virtual) panelist, NIH National Institute of Environmental Health Services, Global Environmental Health Webinar Series, www.niehs.nih.gov/news/video/science/index.cfm#a902048, September 29, Webinar.
- 2020 “Convergence of Heat, Health, and Housing Vulnerabilities of Mobile Home Residents in the time of COVID,” Invited Speaker, *Security and Sustainability Forum: Health and Equity Impacts of Extreme Heat*, May 14, Online Webinar (record registration at 1,604; highest rated webinar 94 percent very positive). Recording available from <https://vimeo.com/418960271>.
- 2019 “International Efforts at Mapping the Globe,” Invited Keynote Panelist, with Eddie Pickle, Amy Coughenour, Alex Tait; American Geographical Society, *Geography 2050: Borders and a Borderless World*, November 22, New York, New York.
- 2019 “Building Resilient Communities,” Invited Keynote Speaker, Maricopa Association of Governments Annual Conference, December 3, Phoenix, Arizona.
- 2018 “Knowledge Exchange for Resilience: How can we design Collaborative Science for Accountable Decision-Making?” Invited (virtual) Panelist Speaker, National Council for Science and the Environment Webinar on The Science of Resilience in Decision Making, December 5, Online to Washington, DC.
- 2018 “Building Bridges Across Geographies,” Plenary Keynote Speaker, Esri Education Summit, July 7, San Diego, California.
- 2017 “Challenges and Opportunities in the Geospatial Revolution,” Keynote Speaker, GIS Day, University of Texas at Dallas, November 15, Richardson, Texas.
- 2017 “What do today’s leaders need to know about tomorrow’s climate?” Invited Speaker, Leadership Women National Conference, July 28, Dallas, Texas.
- 2017 “Creando jóvenes mapeadores, no sólo mapas,” Keynote Speaker, Conference Theme on Geography Education, Encuentro de la Geografía en America Latina, April 27, La Paz, Bolivia.
- 2016 “We don’t just build maps. We build mappers.” Keynote Speaker, GeoWeek and International Education Week, Monroe Community College, November, Rochester, NY.
- 2015 “Inspirations from Youth Mappers.” Keynote Speaker, Launch of the Mapping for Resilience University Consortium during GeoWeek 2015, Rayburn House Office Building, Capitol Hill, Washington, DC, November.
- 2014 “Capstone Fellows Live,” NASA Television Broadcast of Capstone Fellows and the MyCOE / SERVIR Program, Invited Speaker, received by Dr. Charles Bolden, Administrator; NASA Headquarters, April 3, Washington, DC. Recording available at <http://tinyurl.com/lwun2xm>.
- 2014 US Agency for International Development Support for the MyCOE / SERVIR Global Fellowship Program, Invited Speaker at Public Poster Session, received by Dr. Rajiv Shah, Administrator; USAID Headquarters, Ronald Reagan Building, April 4, Washington, DC.

PAPERS, PRESENTATIONS, AND CONFERENCE PARTICIPATION

- 2023 *Geography2050: The Changing Map of Risk, Hazards, and Finance*, Invited Co-sponsor, November 15-17, New York City, New York.
- 2023 “On the Rigor of [Pandemic] Science: Temporal Perspectives of Decision Makers,” Session organizer and Presenter; Biosocial Modeling of Unseen Pandemics Symposium for the US National Science Foundation; School of Arts, Media and Engineering + Electrical Engineering Geometric Media Lab, October 13, Tempe, Arizona.

- 2023 “VGI y Cartografía Nacional con la Participación de YouthMappers”, Keynote Presenter, with Marcela Zeballos; Meeting of the Authorities of the PanAmerican Institute of Geography and History, Instituto Geográfico Nacional de Guatemala, July 4, Guatemala City, Guatemala.
- 2023 General Assembly of the Organization of American States, Official Diplomatic Specialized Organization Representative, June 21-22, Washington, D.C.
- 2023 “Making your way with YouthMappers.” Invited Presenter, with Zola Manyungwa; Hebrew University Annual Mapathon, June 14, Online to Jerusalem, Israel.
- 2023 “NOAA Data Pathfinder: Air Quality Tabletop Exercise.” Invited Participant, National Oceanic and Atmospheric Administration with Arizona State University Knowledge Enterprise, June 14-15, Scottsdale, Arizona.
- 2023 “Using MapSwipe for Heat Resilience of Mobile and Manufactured Home.” Paper Presenter, with Maryam Shakib, Kate Varfalameyeva, Al Alsanad; State of the Map United States, June 10, Online to Richmond, Virginia.
- 2023 “Utilizing OSM to Discover Hidden Vulnerabilities to Extreme Heat.” Paper Presenter, with Kate Varfalameyeva; State of the Map United States, June 9, Online to Richmond, Virginia.
- 2023 “Heat, Health, and Housing Intersections.” Invited Panelist, Rob and Melani Walton Center for Planetary Health, Climate Change and Health Symposium, ASU Biodesign Institute, April 18, Tempe, Arizona.
- 2023 “The Power of YouthMappers: Shining a Light on the Movement” Organizer, Chair, Panelist, Annual Meeting of the American Association of Geographers, March 27, In-Person and Online from Denver, Colorado.
- 2023 “Symposium on Harnessing the Geospatial Data Revolution for Sustainability Solutions: Data-Intensive Geospatial Understanding for Sustainability Solutions.” Invited Panelist, with Shawoen Wang; Annual Meeting of the American Association of Geographers, March 25, Denver, Colorado.
- 2022 General Assembly, Organization of American States. Official Diplomatic Representation for the PanAmerican Institute of Geography and History as President. OAS, October 5-7, Lima, Peru.
- 2022 “Extreme Heat Resilience: Ideation Hour.” Co-Organizer, Panelist, with Bradley Dean. Federal Emergency Management Agency (FEMA) Resilient Nation Partnership Network webinar, June 30, Online to Washington, D.C.
- 2022 “YouthMappers: A Hybrid Movement Design for the OpenStreetMap Community of Communities.” Accepted Paper Presentation, State of the Map, Academic Track, August 21, Florence, Italy.
- 2022 “Addressing Spatial Incongruence in Accountable Decision Making: Heat Resilience among Mobile Home Owners.” Paper Presenter, with Kate Varfalameyeva; Annual Meeting of the American Association of Geographers, March 8, Online to New York, New York.
- 2021 “Mentoring and Networking as Power Skills for Women in geospatial technologies and environmental sciences,” Facilitator and Speaker; SERVIR Amazonia Webinar, with NASA and USAID, August 31, Online from Tempe, Arizona.
- 2021 “Perspectivas de Mujeres Indígenas al Liderazgo,” Organizer, Facilitator; SERVIR Amazonia Webinar, with NASA and USAID, August 3, Online to Bogota, Colombia.
- 2021 Resilience in Practice Roundtable, Invited (virtual) panelist, Hanbury Planning Knowledge Cafe, July 20, Online Forum to Norfolk, Virginia.
- 2021 Women and GIS, Invited (virtual) panelist, Esri User Conference, July 15, Online to Redlands, California.

- 2021 “Descubra la visión de liderazgo de las mujeres en los campos medioambiental y geoespacial,” Organizer, Facilitator; SERVIR Amazonia Webinar, with NASA and USAID, June 23, Online to Bogota, Colombia.
- 2021 “Heat Resilience and Housing Assemblages: effects on home and well being among mobile home dwellers of Mesa, Arizona,” Co-presenter (virtual), with Kate Varfalameyeva, Lora Phillips, and Elisha Charley, Crisis Housing Assemblages I and II, Annual Meeting of the Association of American Geographers, April 10, Online Conference Session Track.
- 2021 Crisis Housing Assemblages I and II, Co-Organizer, (virtual) session series, with Mark Kear and Margaret Wilder, Annual Meeting of the Association of American Geographers, April 10, Online Conference Session Track.
- 2021 “Communicating and Building Resilience: Building Back Better,” Invited (virtual) lecturer, Arizona Forward Fellowship program, March 19, Online Forum from Phoenix, Arizona.
- 2021 “Advances of Geography in the Americas.” Invited (virtual) Speaker, Organization of American States PAIGH, US National Section Annual Meeting, March 5, Online to the US Census, Washington, DC.
- 2021 Atlas de Cambio Climático, Invited (virtual) speaker, project highlights from the Geography Commission on the occasion of the 93rd Anniversary of the Instituto Panamericano de Geografía e Historia, February 23, Online Forum to Mexico City, Mexico.
- 2021 “Careras de SIG y la Geografía” Invited (virtual) keynote speaker, Virtual Career Showcase, EducationUSA, February 17, Online Forum to City of Knowledge, Panama City, Panama.
- 2021 Mapatón de Carnival: Efectos de la Pandemia en el Turismo de Panamá, Organizer, validator, co-host, (virtual) international mapathon event by University of Panama, February 13, Online event to Los Santos, Panama.
- 2021 Community Resilience Partnership, Invited (virtual) session moderator, AAAS Annual Meeting, February 11, Online Forum from Tempe, Arizona (ASU Global Futures Laboratory) to Washington, DC.
- 2021 Meeting the Moment: Harnessing the Untapped Potential of Universities in Building Community Resilience, Invited (virtual) panelist, organized by Global Council for Science and the Environment Resilience Consortium, PRIMR conference, February 2, Online Forum to College Station, Texas.
- 2021 The ultimate student hack: Saving tomorrow, today, Invited (virtual) panelist, ASU/Devex Global Hackathon Event, January 26, Online to Washington, DC.
- 2021 Unlocking the Data to Drive a Smart Region, Invited (virtual) panelist, Third Smart Cities & Regions Summit, The Connective, January 7, Online from Phoenix, Arizona.
- 2021 “Heat Vulnerability and Resilience among Mobile Home Owners,” Invited (virtual) Lightning speaker, Climate & COVID - The Combined Impacts of Multiple Stressors Session, NCSE Drawdown 2021 Conference, *Research to Action: Science and Solutions for a Planet Under Pressure*, January 6, Global Council for Science and the Environment to Washington, DC.
- 2020 Virtual Hunch Lunch: Economic Security and the Future of Work, Facilitator and Interviewer, Knowledge Exchange for Resilience Fall Signature Event, with Center for the Future of Arizona, Black Chamber of Arizona, SRP and Greater Phoenix Leadership, October 22, online, available from bit.ly/HunchLunch2020.
- 2020 “YouthMappers: genesis of a movement, a mission, and global footprint of a generation’s impact,” Invited (virtual) Speaker, #MappingRemoteNepal Guest Lecture Series organized by NAXA with World Food Programme and Australian AID, September 9, Online Symposium to Kathmandu, Nepal.

- 2020 “Heat, Health and Housing Vulnerabilities of Elderly Mobile Home Residents,” Invited (virtual) Speaker, American Association of Retired Persons, Arizona Advocacy Committee, June 16, Online Meeting to Phoenix, Arizona.
- 2020 “YouthMappers: Open Data, Open Platform, Open Community,” Invited (virtual) Panelist, Weaving Resilient Communities Open Innovations Session at CNU 28, Congress for the New Urbanism, June 12, Online Forum.
- 2020 “How a Global Open Data Youth Movement Sparks Resilience,” Invited (virtual) Panelist, Open Ecosystems for Humanitarian Assistance / Disaster Response with Bryan Lane, Organizer, *FedGeoDay*, June 11, Online Conference. Recording at <https://vimeo.com/434349566>.
- 2020 “Spatial models of education deserts and workforce opportunities in the Southern United States,” Co-authored Poster with Amal Aljaddani, GEOINT, US Geospatial Information Foundation Inaugural GEOConnect Series Showcase, April 30, Online Poster Event.
- 2020 “Mapping Locally, Globally: Reflections on YouthMappers and Engaged Learning in Geography,” Invited (virtual) Panelist, with Adele Birkenes, Annual Meeting of the Association of American Geographers, April 7, Online Conference SessionTrack.
- 2020 “Spatially modeling education and workforce deserts for veterans and military families in the southern United States,” Co-authored Poster with Amal Aljaddani, Annual Meeting of the Association of American Geographers, April 7, Online Poster Track.
- 2020 “Heat Study in Mobile Home and Trailer Parks,” Invited Speaker, Annual Meeting of the Arizona Association of Mobile Home Owners, February 29, Tucson, Arizona.
- 2020 “Understanding Heat-related Costs to Home and Well-being through Knowledge Exchange.” Symposium Organizer, Lecturer, JPB Environmental Health Fellowship Program, sponsored by the Harvard T.H. Chan School of Public Health, hosted at the ASU Decision Theater, January 16, Tempe, Arizona.
- 2020 “Power Mapping: Youth and GeoAI for Augmented Humanitarian Action,” Invited (virtual) panelist, United Nations Data Forum, October 19, Online Forum to New York, New York.
- 2019 “Agents of Change: Futures of Hope, Futures of Concern”, Global Futures Laboratory Planetary Symposium led by Nina Berman; Organizer of Built Environment Exhibit, Concluding Remarks Panelist, Arizona State University, October 24-25, Tempe, Arizona.
- 2019 “Workforce Development and YouthMappers: Understanding perceptions of students in humanitarian mapping.” Poster Presentation and Flash Talk published with co-author Sushil Rajagopalan as abstract in Proceedings of the Academic Track, State of the Map 2019, September 21-23, Heidelberg, Germany.
- 2019 “How knowing the purpose of mapping changes the map and the mappers themselves.” Poster Presentation and Flash Talk published as abstract in Proceedings of the Academic Track, State of the Map 2019, September 21-23, Heidelberg, Germany.
- 2019 “Exchanging Knowledge with Communities for Improving Resilience to Extreme Heat.” Guided Poster Session Organizer and Chair, with scientific attachés from the Offices of Senator Sinema, Senator McSally and the State of Arizona Department of Economic Security, Association of American Geographers, April 5, Washington, DC.
- 2019 “Promoting Diversity in Geography: Strategies to Improve Inclusion, Broaden Participation, and Assess Progress.” Panelist, AAG Leadership Symposium, Association of American Geographers, April 4, Washington, DC.
- 2019 “How knowing the purpose of mapping changes the map and the mappers themselves.” Paper Presentation, Association of American Geographers, April 3, Washington, DC.

- 2019 “Informal Learning Pathways through Mapathons for Military and Veteran Communities.” Poster Presentation. National Science Foundation Advancing Informal STEM Learning Program Principal Investigator Meeting, February 13, Alexandria, Virginia.
- 2019 “Developing Utility Assistance Community Resilience Networks in Maricopa County.” Wei Luo, Q. Zhao, H. Fischer, P. Solis, and E. Wentz. Poster. American Meteorological Society, 99th Annual Meeting, January 8, Phoenix, Arizona.
- 2019 “Community Resilience in Maricopa County, Arizona, USA: The Analysis of Indoor Heat-Related Death and Urban Thermal Environment.” Qunshan Zhao, H. Fischer, W. Luo, P. Solis, and E. Wentz. Poster. American Meteorological Society, 99th Annual Meeting, January 8, Phoenix, Arizona.
- 2019 “Mapping Heat Vulnerability in Maricopa County, Arizona, with the HeatMappers Volunteer Science Program.” Grace Valandra, H. Fischer, P. Solis, Q. Zhao, E. Wentz, and C. Higgins. Poster. American Meteorological Society, 99th Annual Meeting, January 8, Phoenix, Arizona.
- 2019 “ActivityLog–HeatMappers: A Novel Research Data Collection Tool for Logging Activities, Locations, and Environmental Data.” Ziqi Li, Q. Zhao, H. Fischer, P. Solis, and E. Wentz. Poster. American Meteorological Society, 99th Annual Meeting, January 8, Phoenix, Arizona.
- 2019 “Mapping Thermal Comfort in Edison Eastlake Neighborhood with Citizen Scientists.” Yuliya Dzyuban, M. Messerschmidt, H. Fischer, A. Ellsworth, P. Solis, J. Vanos, A. Middel, and D. Hondula. Poster. *21st Annual CAP LTER Poster Symposium*, January 11, Tempe, Arizona.
- 2019 “Developing Utility Assistance Community Resilience Networks in Maricopa County.” Wei Luo, Q. Zhao, H. Fischer, P. Solis, and E. Wentz. Poster. American Meteorological Society, 99th Annual Meeting, January 8, Phoenix, Arizona.
- 2018 “Mapping for Humanitarian Needs around the World: Students map their campuses and communities for resilience,” Presenter, Esri Education Summit, July 9, San Diego, California.
- 2018 “YouthMappers: Mapeo Comunitario y Geovoluntarios Estudiantiles,” Invited speaker at Universidad de Costa Rica, May 25, San Jose, Costa Rica.
- 2018 *Digital Technologies for a Better World*, Symposium Organizer, with invited speakers from Facebook, Microsoft, Humanitarian OpenStreetMap Team, US Agency for International Development, Clinton Health Access Initiative, Digital Globe, and Esri, April 18, Texas Tech University, Lubbock, Texas.
- 2018 “Broadening the Impacts of Transformative Research in Geography,” Panelist, American Association of Geographers Annual Meeting, April 11, New Orleans, Louisiana.
- 2018 “YouthMappers from around the world: How students are mapping their campuses and communities for resilience,” Organizer and Panelist, American Association of Geographers Annual Meeting, April 10, New Orleans, Louisiana.
- 2017 “Humanitarian Mapping Education: A View on Curriculum,” Speaker, Humanitarian OpenStreetMap Summit, with Tom Mueller, September 13, Ottawa, Canada.
- 2017 “Building Mappers not just Maps: Challenges and Opportunities,” Keynote Speaker, Citizen Science GIS NSF REU Student Conference, University of Central Florida, August 8, Facebook Live and Orlando, Florida.
- 2017 *Powerful Geography: A New Paradigm for an Old Discipline*, Research Workshop and Planning Conference, Invited Core Participant, Texas State University, June 9-10, San Marcos, Texas.
- 2017 *Geographies for Peace / Geografia para la Paz*, Participant, International Geographical Union Conference, April 25-26, La Paz, Bolivia.
- 2017 “Transformative Research in Geography Education.” Invited Panelist; National Center for Research in Geography Education Symposium, April 9, Boston, Massachusetts.

- 2017 2nd Mapathon@AAG and MIT, Featured Event Organizing Committee, AAG Annual Meeting, Massachusetts Institute of Technology, April 6-9, Boston, Massachusetts.
- 2017 “Building mappers not just maps: challenges and opportunities from YouthMappers on scaling up the crowd in crowd-sourced open mapping for development.” Paper presenter. AAG Mapathon; AAG Annual Meeting, April 7, Boston, Massachusetts.
- 2017 “Open Mapping for Resilience: YouthMappers in Latin America.” Paper presentation, Conference of Latin Americanist Geographers, January, New Orleans, Louisiana.
- 2017 “Strategies to obtain NSF Funding.” Panelist, Conference of Latin Americanist Geographers, January, New Orleans, Louisiana.
- 2016 “El Reto y la Oportunidad del Mapeo Abierto.” Invited Speaker, Directing Council Meeting of the PanAmerican Institute for Geography and History of the OAS, November, Asunción, Paraguay.
- 2016 “Local Capacity Building in Open Mapping for Resilience in Colombia, Kenya, Uganda, Ghana, and Bangladesh,” Invited Speaker, US Agency for International Development GeoCenter GIS Specialists Conference, October, Washington, DC.
- 2016 “YouthMappers: Open Mapping for Resilience Network of Universities,” Invited Speaker, Humanitarian OpenStreetMap Summit, September, Brussels, Belgium.
- 2016 “Aprendizaje basado en Proyectos,” Invited Speaker, Ministry of Education (MEDUCA), Panama, August, City of Knowledge, Clayton, Panama.
- 2016 White House Mapathon. Invited Participant, student facilitator coordinator. White House Executive Office Building, July 7, Washington, DC.
- 2016 “Coherence in Project Management Planning”. Invited Speaker, Early Career Researcher Training, South Central Climate Science Center, TTU Innovation Hub, June, Lubbock, Texas.
- 2016 “The Power of Youth Mapping for Resilience.” Invited Speaker, Organization of American States PAIGH, US National Section Annual Meeting, US Census, May, Washington, DC.
- 2016 “Building a Youth Mapping University Community.” Invited (virtual) Speaker, Peace Corps Innovation Office, Online Internship Conference Series, April 11, to Washington, DC.
- 2016 “SCAN: a new programmatic service to support faculty resubmission of rejected external funding proposals.” Lightning Talk, Research Development Conference of the National Organization of Research Professionals, NORDP, May 23, Orlando, Florida.
- 2016 “About the Mapping for Resilience University Consortium.” Invited Webinar Leader and Speaker, University Consortium for Geographic Information Science (UCGIS), with Duane Nellis, Brent McCusker, Nuala Cowan, Chad Blevins, April 20, from New York, New York.
- 2016 “Understanding OpenStreetMap: Current, Historical, and Meta-Data Analysis.” Co-Organizer and Discussant. AAG Mapathon; AAG Annual Meeting, April 1, San Francisco, California.
- 2016 Mapathon@AAG, Featured Event Organizing Committee, AAG Annual Meeting, April, San Francisco, California.
- 2016 “Opportunities with the Mapping for Resilience University Consortium.” Organizer, Panelist, Chair, Panel Session, AAG Annual Meeting, April, San Francisco, California.
- 2016 “Analytical and Geospatial Approaches to Livelihoods, Vulnerability, and Resilience.” Paper session co-organizer with Brent McCusker, West Virginia University, AAG Annual Meeting, April, San Francisco, California.
- 2016 “Opportunities and Challenges Ahead for the Open Mapping Community.” Chair, Panel Session, organized by US Department of State MapGive, AAG Annual Meeting, April, San Francisco, California.

- 2015 "Mappers Without Borders." Invited Speaker, GIS Specialists in USAID Missions, Annual Conference, Washington, DC, October.
- 2015 "Gender, Security, and the Environment." Invited Guest Lecturer, Environmental Security Graduate Seminar (Richard Marston), Kansas State University, October, Manhattan, Kansas.
- 2015 "Stories from the Map." Invited Guest Lecturer, World Regional Geography (Max Lu), Kansas State University, October, Manhattan, Kansas
- 2015 Tribal Nations Grant Workshop USGS Climate Science Center, Panelist, July, Lubbock, Texas.
- 2015 State of the Map, Open Street Map, June, United Nations Headquarters, New York, New York.
- 2015 Science of Team Science Conference SciTS, National Institutes of Health, June, Bethesda, Maryland.
- 2015 Research Development Conference of the National Organization of Research Professionals, NORDP, May, Bethesda, Maryland.
- 2015 "Mapping Across Borders as a Collaborative Learning Approach for Climate Change Education." Paper Presenter at Session on Climate Literacy & Education, co-organized by Dan Bedford, Weber State University and John A. Harrington, Kansas State University, AAG Annual Meeting, April, Chicago, Illinois.
- 2015 Pan-American Partnerships: Working with Higher Education Institutions in Latin America to enrich Research and Education. Panelist, co-organized by David Salisbury & Mary Finley-Brook, University of Richmond, AAG Annual Meeting, April, Chicago, Illinois.
- 2015 "Geography and Geospatial Technologies." Invited Speaker, AVID program (Advancement Via Individual Determination), Murphy Middle School, March, Dallas, Texas.
- 2014 "Informal Education, Social Media, and Geographic Technologies: Lessons on Scaling Up from the MyCOE Program," with Astrid Ng (co-author). Paper Presenter at Session on New Approaches for Advancing GIScience Education, organized by Anthony Robinson, Penn State University, AAG Annual Meeting, April, Tampa, Florida.
- 2014 MyCOE / SERVIR Global Fellows, Featured Illustrated Paper Session, Organizer, AAG Annual Meeting, April, Tampa, Florida.
- 2014 Pan-American Geography: Working Across Academic, NonProfit, and Public Sectors to enrich Research and Education in the Americas, Organizer with David Salisbury, AAG Annual Meeting, April, Tampa, Florida.
- 2014 Beyond Professional Development: Candid Advice for Students and Early Career Geographers, Panelist, AAG Annual Meeting, April, Tampa, Florida.
- 2014 Conversations with the AAG Healthy Departments Committee and the AAG Diversity Ambassadors, Organizer with Alec Murphy and Nate Sessoms, AAG Annual Meeting, April, Tampa, Florida.
- 2014 "Evolution of a New Geographic Approach to Broadening Participation," Invited Colloquium Speaker, University of Kansas Department of Geography, March, Lawrence, Kansas.
- 2014 "Women Geographers and Women in Geography in the Americas / Geógrafas y Mujeres en la Geografía en las Américas," Special Session Organizer and Panelist, Conference of Latin Americanist Geographers, January, Panama City, Panama.
- 2014 "Building Collaborative Research Opportunities into Study Abroad Programs: A Case Study from Panama's Casco Viejo," Paper Presentation with Marie Price, CLAG Meeting, January, Panama City, Panama.
- 2013 "Colaboración para la Geografía en las Américas," Invited Speaker, IPGH Technical and Consultative Meeting, November, Montevideo, Uruguay.

- 2013 "Education and Geospatial Capacity for the World's One Billion Youth," Invited Speaker (given in Spanish), Conferencia Internacional de Geografía y Medio Ambiente, INEGI, October, Mexico City, Mexico.
- 2013 AAG Department Chairs Symposium: Promoting Diversity in Geography: Strategies to Improve Inclusion, Broaden Participation, and Assess Actions, Co-Organizer with Ken Foote, AAG Annual Meeting, April, Los Angeles, California.
- 2013 AAG Diversity Ambassadors Networking Reception, Organizer, AAG Annual Meeting, April, Los Angeles, California.
- 2013 Catalyzing Research on the Geographies of Broadening Participation, Panel Organizer, Discussant, AAG Annual Meeting, April, Los Angeles, California.
- 2013 CyberGIS Symposium: CyberGIS Education, Invited Panelist, AAG Annual Meeting, April, Los Angeles, California.
- 2013 Geography in the Americas: Making the Most of Student Exchanges for Research and Study Abroad, Chair, Discussant, Organizer, AAG Annual Meeting, April, Los Angeles, California.
- 2013 International Geographies of Education: Rio+20, the UN and the role of geographers, Panel Speaker, AAG Annual Meeting, April, Los Angeles, California.
- 2013 Young Leaders Mapping Sustainable Development Challenges: My Community, Our Earth Beyond Rio+20, Organizer, Presenter, Poster session of 50 posters, and Digital Video Conference linking live to classrooms in Ghana, Nicaragua, Bolivia, and Puerto Rico; AAG Annual Meeting, April, broadcast from Los Angeles, California.
- 2013 The Versatile PhD: Careers in Nonprofits for Humanists and Social Scientists, Invited (virtual) panelist, www.versatilephd.com, January, online panel session.
- 2012 Enhancing Diversity, Promoting Inclusion, Confronting Racism, and Broadening Participation in Geography, Co-organizer and panelist, Race, Ethnicity, and Place Conference VI, October, San Juan, Puerto Rico.
- 2012 "MyCOE / SERVIR Partnership for Sustainable Development," on behalf of Dan Irwin, NASA, presented in panel session "Geography and Spatial Technologies: Empowering Sustainable Futures" at the US Rio+20 Center, United Nations Conference on Sustainable Development (Rio+20), June, Rio de Janeiro, Brazil.
- 2012 Presentation Series on Diversity, organized three consecutive featured sessions, including "The Landscape of Diversity in U.S. Higher Education Geography," presented in paper session Diversity, Inclusion and Participation in Geography; moderated panel, Diverse Experiences in Diversity at the Geography Department Scale; AAG Annual Meeting, February, New York, New York.
- 2011 Geography at Minority Serving Institutions Panel session series: "Si se puede! Recruiting and Retaining Hispanic/Latino Students in Geography at Hispanic Serving Institutions," "The Status of Geospatial Technology at Historically Black Colleges and Universities," "Geography, GIS, and Environmental Sciences at Tribal Colleges, AANAPISI, and Indigenous University Partnerships," and "Intro Geography: Undergraduate Coursework in Community Colleges and Beyond." AAG Annual Meeting, April, Seattle, Washington.
- 2011 Geography in the Americas: Roundtable of Geography Organizations of the Region on Addressing Key Challenges in Society/Geografía en las Américas: Mesa redonda de las organizaciones de geografía de la región de cómo afrontar los desafíos clave en la sociedad; bilingual session co-organized with representatives from AAG, International Geographical Union, PanAmerican Institute of Geography and History, Encuentro de Geógrafos de América Latina, and other associations. AAG Annual Meeting, April, Seattle, Washington.

- 2011 Diversity Ambassadors Special Event Organizer at the Jobs in Geography Career Center Exhibit, with 24 volunteers, AAG Annual Meeting, April, Seattle, Washington.
- 2012 "Interdisciplinary Research Collaborations: Geography in the Americas," invited presentation for the *Symposium of the Americas*, held at the Organization of American States, March, Washington, DC.
- 2011 Geography in the Americas: Roundtable of Geography Organizations of the Region on Addressing Key Challenges in Society/Geografía en las Américas: Mesa redonda de las organizaciones de geografía de la región de cómo afrontar los desafíos clave en la sociedad; bilingual session co-organized with representatives from AAG, International Geographical Union, PanAmerican Institute of Geography and History, Encuentro de Geógrafos de América Latina, and other associations. IGU Regional Conference, November, Santiago, Chile.
- 2011 "Sobre el Instituto internacional integrando investigación sobre el cambio climático y riesgos en las Américas." Conferencia de Desastres y Ordenamiento Territorial en las Américas, November, Lima, Perú.
- 2011 Advisor/Co-organizer, international keynote speakers, "Congreso de Sistemas de Información Geográfica como Plataforma para la Modernización del Estado." With the Ministry of Science, Technology & Innovation, Authority for Governmental Innovation, June, Panama City, Panamá.
- 2011 "Perspectivas sobre Investigación Geográfica y Colaboración Panamericana." 2a Reunión Técnica Conjunta de las Comisiones del Instituto Panamericano de Geografía y Historia. June, Panamá, Panamá.
- 2010 Enhancing Diversity in Higher Education Track at the AAG Annual Meeting, Organizer of featured 20 sessions featuring geographic research that can inform efforts to broaden participation in geography programs at US colleges and universities and to enhance diversity in the discipline, April, AAG Annual Meeting, Washington, DC.
- 2010 Diversity Ambassadors Special Event Organizer with 16 volunteers, AAG Annual Meeting, April, Washington, DC.
- 2010 Institutional Perspectives on Broadening Participation and Enhancing Diversity in Higher Education, Panel Co-Organizer with Amy Glasmeier of MIT and Rickie Sanders of Temple University, featuring American Association of Persons with Disabilities, American Geophysical Union, Lumina Foundation for Education, American Educational Research Association, American Psychological Association and American Association for Advancement of Science, AAG Annual Meeting, April, Washington, DC.
- 2010 Opportunities for Enhancing Diversity in the Geosciences: Programs and Partnerships, Panel Organizer and Paper Presenter "ALIGNED: Addressing Locally-tailored Information Infrastructure & Geoscience Needs for Enhancing Diversity." AAG Annual Meeting, April, Washington, DC.
- 2010 Ecosystem Conservation Priorities in the Americas, Panel Organizer and Chair of Symposium for the JRS Biodiversity Foundation. With IABIN, City of Knowledge (Panama), National Biodiversity Institute (InBIO-Costa Rica), Neotropical Bat Risk Assessments (Belize), Virginia Polytechnic Institute and State University, and the AAG. Keynote session featured World Bank, United Nations Foundation, Heinz Center for Science, Economics, and the Environment, Copenhagen Climate Council, Instituto Nacional de Biodiversidad (INBio), USGS, Organization of American States, University of Texas at Austin. Washington, DC.
- 2009 My Geographic Learning Making a Difference: Considering Results from My Community, Our Earth Regional Programs in the Developing World. Illustrated Paper Session Organizer with participants from Mexico, Philippines, United States, Panama, Morocco, Turkey, and Egypt, AAG Annual Meeting, Las Vegas, Nevada.

- 2009 Diversity Ambassadors Inauguration, CoFounder with Nate Sessoms (12 volunteers), AAG Annual Meeting, Las Vegas, Nevada.
- 2009 Geography in the Americas Resources for Supporting International Collaboration, Panelist and Organizer with representatives from the American Council of Learned Societies, Organization of American States, Inter-American Foundation, Office of International Research Programs at USDA-Agricultural Research Service, Executive Director of LASPAU, Academic and Professional Programs for the Americas, Fulbright Program, affiliated with Harvard University, and Americas Program, Office of International Science and Engineering, National Science Foundation. AAG Annual Meeting, Las Vegas, Nevada.
- 2009 “Graduate Education and Diversity in Geography: Perceptions, Strategies and Challenges.” Co-author, Beth Schlemper, presenter, at AAG Annual Meeting, Las Vegas, Nevada.
- 2008 “Lessons Learned from a Global Learning Partnership: My Community, Our Earth,” invited presentation at the UN Commission for Sustainable Development, New York, New York.
- 2008 “An Overview of International Research Collaboration among Geographers and Other Scholars of the Americas: Dimensions, Opportunities, and Best Practices.” Paper presented and Featured Session Organizer, Exploring International Interdisciplinary Research Collaboration in the Americas, AAG Annual Meeting, Boston, Massachusetts.
- 2008 “Strategies for Student Recruitment: Graduate, Undergraduate, & Diversity Initiatives.” Panelist, AAG Annual Meeting, Boston, Massachusetts.
- 2008 “Spotlight on U.S. Geography Linkages to Developing Regions.” Discussant, AAG Special Plenary Session, AAG Annual Meeting, Boston, Massachusetts.
- 2007 “Progress toward Geographic Collaborations in the Americas: Results and Recommendations.” Presenter, Conference of Latin Americanist Geographers Meeting, Colorado Springs, Colorado.
- 2007 “AAG Diversity Task Force: Report and Recommendations.” Panelist, AAG Annual Meeting, San Francisco, California.
- 2007 “El Estado Actual de la Geografía en las Américas.” Chair and Panel Organizer, featured session at the AAG Annual Meeting, San Francisco, California.
- 2007 “MyCOE: International Collaborations around Geographic Learning for Sustainable Development.” Chair, Panelist, and Organizer of Invited Panel and Student Competition Illustrated Poster Sessions, AAG Annual Meeting, San Francisco, California.
- 2007 “The AAMIGA Project: Advancing International Research Collaboration among Geographers of the Americas.” Presenter, Geography of the Americas Conference, La Serena, Chile.
- 2007 “The Science of Geography in the 21st Century.” Invited Keynote Speaker, Meeting of the Asociación Panameña para el Avance de la Ciencia (APANAC), Panama City, Panamá.
- 2006 “Heuristics, Serendipity, and Enlightened Opportunism: Making a Difference Through Geography.” Invited Speaker, Geography Awareness Week, Department of Geography, Kansas State University, Manhattan, Kansas.
- 2006 “AAG Panel on US and Latin American Collaboration in Geographic Research and Education.” Panelist, Conference on Race, Ethnicity and Place, Texas State University, San Marcos, Texas.
- 2006 “My Community, Our Earth: Youth Solutions in Water Resource Projects.” Poster, 3rd International Symposium on Integrated Water Resources Management (ICWRS/UNESCO) at Ruhr University, Bochum, Germany.
- 2006 “AAG Diversity Task Force: Collaboration and Outreach.” Panelist, AAG Annual Meeting, Chicago, Illinois.
- 2006 “Enhancing Career Development and Graduate Geography as a Strategic Goal within the AAG.” Presenter, AAG Annual Meeting, Chicago, Illinois.

- 2006 "El Estado Actual de la Geografia en Paises Hispanoamericanos." Chair and Panel Organizer, first official Spanish-language session at the AAG Annual Meeting, Chicago, Illinois.
- 2006 "MyCOE: Geographic Learning for Sustainable Development in the US Gulf and Greater Caribbean Region." Chair, Panelist, and Organizer, AAG Annual Meeting, Chicago, Illinois.
- 2005 "The Digital Bus and Geographic Information Technology Education." Presenter and Session Chair, AAG National Conference, Denver, Colorado.
- 2005 "Community Mapping: Linking Research, Partners, and Action." Presenter and Session Chair, AAG Annual Meeting, Denver, Colorado.
- 2004 "Geographic Technologies for Water Management: Model Programs for Research, Outreach, and Education." Presenter, Chair, White Water to Blue Water Conference, Miami, Florida.
- 2004 "World Summit on Sustainable Development: Partnerships for the Future." Presenter and Session Chair, AAG Centennial Meeting, Philadelphia, Pennsylvania.
- 2004 "Applying GIS to Project Decision-Making," Invited Panel Speaker, InterAmerican Development Bank, Environment Week, Washington, District of Colombia.
- 2004 "Race/Ethnicity and Place Programs and Applications", Plenary Panel Chair, Conference on Race/Ethnicity and Place at Howard University, Washington, DC.
- 2002 "Reflections on Fieldwork." Guest Speaker in Special Topics Research Design and Methods, Prof. Rex Honey, University of Iowa, Iowa City, Iowa.
- 2002 "Maps and Expert Knowledge in Development: Contesting and Combating Desertification in Patagonia." Presenter, AAG National Conference, Los Angeles, California.
- 2002 "Combating Desertification in Patagonia And 'Other Bedtime Stories'." Guest Lecturer in Development Planning and Policy, Prof. Michael McNulty, University of Iowa, Iowa City, Iowa.
- 2001 "On the Production of Knowledge in Environment and Development: Core Concepts in the Discipline of Geography." Area Review Paper Presentation, University of Iowa Department of Geography, Iowa City, Iowa.
- 2001 "Local Challenge to a Global Agenda? Combating Desertification in Patagonia, Argentina." Presenter, Ford Foundation Crossing Borders Convocation, Iowa City, Iowa.
- 2000 "Constructed Enemies: Discourse of 'Combating Desertification' in Río Negro, Argentina." With Rebecca S. Roberts. Presenter, AAG National Conference, Pittsburgh, Pennsylvania.
- 2000 "Resonating Discourses: 'Combating Desertification' and *La Conquista del Desierto* in Río Negro, Argentina." Presenter, Graduate Student Senate Forum, Iowa City, Iowa.
- 1999 "Constructed Enemies: Nature and Other in Global Discourses of 'Combating Desertification.'" Presenter, West Lakes Division Regional AAG Conference, DeKalb, Illinois.
- 1999 "Land and Water as Heritage: Discourses of Rural Resource Conflict in Edwards County, Kansas and O'Brien County, Iowa." Presenter, Kansas Academy of Sciences, Manhattan, Kansas.
- 1999 "Development, Environment, and Social Tension: Issues in Rural Southwestern Kansas." Guest Lecturer, Environment and Development, Ken MacDonald, University of Iowa, Iowa City, Iowa.
- 2021 "Economic Development Issues of Kansas Border Counties." 10th Annual Community Economic Development Conference, Kansas Center for Rural Initiatives, Hays, Kansas.
- 1999 "Cultural Relations: Experiential Learning Simulation." Leadership Liberal, Liberal, Kansas.
- 1996 "Social Impacts of Water Transfer." Presenter, Kansas Academy of Sciences, Emporia, Kansas.

TEACHING EXPERIENCE AND EXECUTIVE EDUCATION

Upcoming and Ongoing

- 2019-24 Instructor and Project Mentor, *Resilience Fellows* (75), non-credit bearing, Arizona State University for faculty / community cohorts, Spring Semesters and Fall capstone showcase
- 2021-24 Facilitator and Coach, *KE for DC Fellows*, non-credit bearing, Arizona State University Knowledge Enterprise for Washington DC engagement by selected faculty, with Ira Bennett and Tim Lant, Fall Semesters and Spring DC site visit
- 2024 Faculty Lecturer, *Leadership in Urban Planning, Spatial Planning and Smart Cities*, for Oman Ministry of Housing by ASU Thunderbird Executive Education, March 10-16, with Diana Bowman, Spring Session
- 2024 Faculty Co-Director, *Comparative Hazards Management in the U.S. and Europe*, Study Abroad PAF 494/591 in Germany, France and Switzerland, Arizona State University School of Public Affairs, May 11-18, with Brian Gerber, Summer Session

Completed

- 2023 Invited Lecturer, *GIScience Issues and Debates*, GIS520 School of Geographical Sciences and Urban Planning, Arizona State University, with Shea Lemar, Fall Semester
- 2023 Invited Lecturer, *Moonshot Cohort: Positioning and Credibility*, Arizona State University Foundation, with Michelle Govani and Monro Obenauer, Fall Semester
- 2023 Invited Lecturer, *Healthy Urban Environments*, SOS494/598 Arizona State University, with Chuck Redman, on “Heat, Housing and Health,” Spring Semester
- 2023 Invited Lecturer, *Gendering Peace and Security*, HUL/ENG/WST 494/598 SOS 498/594 Arizona State University, with Miki Kittleson, on “Why She Maps,” Spring Semester
- 2022 Invited Lecturer, *GIScience Issues and Debates*, GIS520 School of Geographical Sciences and Urban Planning, Arizona State University, with Peter Kedron, Fall Semester
- 2022 Research Associate Professor, *Discovery Seminar*, LIA194, College of Liberal Arts and Sciences, Arizona State University, Spring Semester
- 2019 Research Associate Professor, *Individualized Instruction*, GIS499, School of Geographical Sciences and Urban Planning, Arizona State University, Fall Semester
- 2019 Research Associate Professor, *Internship*, GIS684, School of Geographical Sciences and Urban Planning, Arizona State University, Fall Semester
- 2017 Research Associate Professor, *Undergraduate Research*, GEOL4312, undergraduate research supervision on open mapping for disaster prevention from volcanic hazards in Colombia, Department of Geosciences, Texas Tech University, Fall Semester
- 2017 Research Associate Professor, *Graduate Research Hours*, LPMD7000, Summer Term graduate research supervision on open mapping for malaria prevention in Africa, Department of Land Use Planning Management and Design, Texas Tech University
- 2017 Invited Lecturer, *Anthropology of Tourism*, ANTH3300 Texas Tech University, with Lauren Miller Griffith, “Mapping for Hurricane and Flooding Recovery,” Fall Semester
- 2017 Invited Lecturer, *Introduction to Human Geography*, GEOG2300 Texas Tech University, with Linda Lea Jones, on “Mapping for Hurricane and Flooding Recovery,” Fall Semester
- 2017 Research Associate Professor, *Special Topics in Geography: Open Mapping for Resilience*, GEOG4320/5130-S, undergraduate and graduate hybrid online course with Service-Learning designation, Spring Semester, 15 students and wiki-coauthors for projects in Uganda, Colombia, Nigeria, Philippines, with USAID GeoCenter, Missing Maps, Red Cross, USAID Office of Foreign Disaster Assistance, presented via StoryMap, Department of Geosciences, Texas Tech University

- 2016 Research Associate Professor, *Special Topics in Geography: Open Mapping for Resilience*, GEOG4320/5130-S, undergraduate and graduate hybrid online course with Service-Learning designation, Fall Semester, 18 students and wiki-coauthors for projects with USAID GeoCenter in Kenya, Colombia, Ghana, Indonesia, presented via StoryMap, Department of Geosciences, Texas Tech University
- 2016 Research Associate Professor, *Special Topics in Geography: Open Mapping for Resilience*, GEOG4320, upper level undergraduate/graduate independent study hybrid online course, Spring Semester, 29 students and wiki-coauthors for projects with USAID GeoCenter in Angola, Mozambique, Ecuador, Bangladesh, Department of Geosciences, Texas Tech University
- 2016 Invited Lecturer, *The Humanities in the 21st Century*, Texas Tech University, with Dorothy Chansky, “How to Lie With Maps,” interdisciplinary team-taught undergraduate core general education requirement course as introduction to the humanities, sponsored by the TTU Humanities Center
- 2012 Assistant Professorial Lecturer, *Urban Sustainability and Development*, The George Washington University, with Marie Price, undergraduate / graduate level study abroad summer course and international fieldwork research collaboration experience, in collaboration with the University of Panama, Department of Geography, Maria Adames de Newbill, Panama City, Panama
- 2009 Assistant Professorial Lecturer, *Sustainable Development Strategies, Ecotourism, and Security*, The George Washington University, with Marie Price, undergraduate / graduate level study abroad summer course in Panama City, Panama
- 2006 Assistant Professorial Lecturer, *Panama and the Global Economy*, The George Washington University, with Joe Dymond, undergraduate / graduate level study abroad summer course in Panama City, Panama
- 2003 - 2004 Assistant Professorial Lecturer, *Graduate Seminar on Resources and the Environment: Resource Conflict and Conflict Resources*, Department of Geography, The George Washington University, Washington, DC Campus
- 2001 Graduate Teaching Assistant, *Introduction to Human Geography*, The University of Iowa
- 2000 Graduate Teaching Assistant, *Undergraduate Seminar for Geography Majors*, The University of Iowa
- 1999 Graduate Teaching Assistant, *Contemporary Environmental Issues*, The University of Iowa
- 1994 - 1996 Instructor, *International Community Service Program*, Kansas State University
- 1991 - 1994 Learning Skills Seminar Leader, Academic Assistance Center, Kansas State University
- 1991 - 1994 Mentor/Tutor, Tutoring Center and Athletic Department, Kansas State University

International Workshops & Symposia

- (Upcoming) Bangkok, Thailand**, June 2024. YouthMappers Leadership Summit. ~25 university students from the network selected across all 4 world regions; alumni navigators, faculty-led geospatial technical skills workshop, leadership training and ethical professional development.
- Guatemala City, Guatemala**, July 3-5, 2023. YouthMappers Leadership Training Exchange. 25 university students from Guatemala selected for training at Instituto Geográfico Nacional by 5 alumni, OpenStreetMap technical and chapter leadership training. (Keynote Speaker).
- Cali, Colombia**, May 28 - June 3, 2023. Advancing Women’s Prosperity, Knowledge Exchange for Resilience and Centro Internacional de Agricultura Tropical (CIAT), for and with NASA SERVIR and Amazonia Hub; Organizer, Facilitator, and Speaker; for 28 women attendees from Latin America. https://twitter.com/BioIntCIAT_eng/status/1669412839797211148?s=20.

Montego Bay, Jamaica, January 3-13, 2023. YouthMappers Leadership Summit. 52 university representatives from the network selected across 25 countries in 4 world regions; 10 alumni navigators, faculty-led technical and professional training. (Organizer, Facilitator, Instructor).

Florence, Italy, August 20, 2022. Electrifying OSM with RapID and Mapillary, with Chris Beddow, Facebook, hosted at the State of the Map (online session and in person session).

Santo Domingo, Dominican Republic, July 11, 2019. Roundtable Forum on Volunteered Geographic Data in the Americas, (moderator), hosted by the Geography Commission of the Organization of American States PanAmerican Institute for Geography and History for 19 national mapping agency leaders from 11 countries of Central America, Caribbean, Mexico and the United States.

Pretoria, South Africa, January 5-15, 2019. YouthMappers Leadership Fellows Workshop, hosted by the University of Pretoria for 19 university students from South Africa, Malawi, Ghana, Côte d'Ivoire, Uganda, Kenya, Bangladesh, Nepal, Philippines, Costa Rica, Colombia, Panama, US.

Milan, Italy, July 18, 2018. Humanitarian Mapping in the Service Learning Curricula, hosted by the Fulbright Specialists Program for faculty and students at the Politecnico di Milano.

Kathmandu, Nepal, May 21 - 28, 2017. Leadership Fellowship Workshop, YouthMappers Global Network; 20 university students from the US and 10 countries in Africa, Latin America and Asia. USAID GeoCenter.

Mexico City, Mexico, June 17, 2015. Formulación de proyectos científicos. Instituto Panamericano de Geografía e Historia, 3ª Reunión Técnica Conjunta de las Comisiones del IPGH.

La Paz, Bolivia, June 30 - July 9, 2014. Global Connections and Exchange Youth TechCamps Program: My Community, Our Earth; Secondary school students, 10 from the US with 30 from Bolivia. Orientation on Cultural Exchanges for US students in Miami, Florida. Geotechnologies and Climate Change. USDOS Youth Programs Division. (Organizer, Designer).

Pretoria, South Africa, July 14-23, 2014. Global Connections and Exchange Youth TechCamps Program: My Community, Our Earth; Secondary school students, 10 from the US with 30 from South Africa. Orientation on Cultural Exchanges for US students in Washington, DC. Geotechnologies and Climate Change. USDOS Youth Programs Division. (Organizer, Designer).

Chitre, Panama, July 28 - August 6, 2014. Global Connections and Exchange Youth TechCamps Program: My Community, Our Earth; Secondary school students, 10 from the US with 30 from Panama. Orientation on Cultural Exchanges for US students in Houston, Texas. Geotechnologies and Climate Change. USDOS Youth Programs Division.

Bangkok, Thailand, January 2014. My Community, Our Earth SERVIR Workshop on Climate Change, Landscape and Watersheds in Southeast Asia; 25 university students and faculty mentors from Cambodia, Laos, Myanmar, Thailand, and Vietnam. NASA, USAID, RDMA. (Organizer).

Accra, Ghana, July 2013. My Community, Our Earth SERVIR Workshop on Women in Climate Change and Food Security in West Africa; 32 university students and faculty mentors from Benin, Cameroon, Côte d'Ivoire, Ghana, and Nigeria. NASA, USAID, CERSGIS. (Organizer).

Los Angeles, California, April 2013. Global Connections and Exchange Program: My Community, Our Earth Digital Video Conference; with 45 on-site posters, and live online presentations from secondary school student participants from Puerto Rico, Bolivia, Ghana, Nicaragua, and the Philippines, Climate Change, Green Economy, and Food Security. US Department of State Bureau of Educational and Cultural Affairs Youth Programs Division.

Kathmandu, Nepal, February 2013. My Community, Our Earth SERVIR Workshop on Climate Change in Mountain Area Regions in the Himalayas; 27 university students and faculty mentors from Bangladesh, Bhutan, India, Nepal, and Pakistan. NASA, USAID, ICIMOD. (Organizer).

Nairobi, Kenya, December 2012. My Community, Our Earth SERVIR Workshop on Climate Change, Agriculture and Food Security in East Africa; 36 university students and faculty mentors from Democratic Republic of Congo, Ethiopia, Kenya, Malawi, Rwanda, South Africa, Sudan, Tanzania, and Uganda. NASA, USAID, RCMRD. (Organizer)

Rio de Janeiro, Brazil, June 2012. My Community, Our Earth: Geographic Learning for Sustainable Development Exhibit and Geography and Spatial Technologies: Empowering Sustainable Futures, US Government Side Event at the Rio+20 Conference Anniversary of the Earth Summit. USDA, USAID, Esri, USDOS. (Organizer, Exhibitor, Facilitator, Speaker).

Panama City, Panama, June 2010. Institute for Integration of Research on Climate Change and Hazards in the Americas; interdisciplinary group of 50 junior scholars and senior researchers from US, Panama, Chile, Brazil and Mexico; Climate Change, Hazards, Vulnerability, Geographic Technologies, Communication, and Education. NSF (PASI), OAS (PAIGH), USGS, NCA, UNEP-LAC, UTP. (Organizer, Leader, Facilitator, Instructor, Designer).

Panama City, Panama, December 2010 and June 2011. Enhancing Latin American GIS&T Capacity for Innovation and Economic Development Planning Meeting and Conference Symposium. IDB (KPK), SENACYT, AIG, Esri. (Organizer and Facilitator).

Nairobi, Kenya, November 2009. My Community, Our Earth Fellowship Workshop for Biodiversity Initiative in Africa; 35 university student fellows and faculty mentors from Benin, Botswana, Democratic Republic of Congo, Ethiopia, Ghana, Kenya, Malawi, Nigeria, Rwanda, South Africa, Tanzania, and Uganda; NASA, USAID, SERVIR, RCMRD, EIS-Africa, Esri, and NSF (Office of International Science and Engineering). (Organizer).

Tunis, Tunisia, August 2008. My Community, Our Earth Workshop on Geography and GIS Supporting STEM Education in the Muslim World; 25 school teachers trained from Tunisia, Bahrain, Egypt, Israel, Jordan, Lebanon, Qatar, Saudi Arabia, UAE, and Yemen. USDOS, Esri. (Organizer)

Panama City, Panama, January 2008. MyCOE Geographic Learning for Biodiversity Initiative in Central America and the Greater Caribbean; 27 university students and faculty mentors from Colombia, Dominican Republic, Guatemala, Mexico, Nicaragua, Panama. USAID, USGS, Esri.

Davao, Philippines, May 2008. My Community, Our Earth Workshop on Geography and GIS Supporting STEM Education in the Muslim World; 35 school teachers trained in the Muslim Region of Mindanao, Philippines. US Department of State, Esri. (Organizer).

La Serena, Chile, May 2007. MyCOE Geographic Learningships in the US Gulf and Greater Caribbean; 8 undergraduates from US, Puerto Rico, Honduras, Jamaica, Panama. USDA, USAID.

Panama City, Panama. June 2005. Grant Proposal Preparation. Presenter, Four-Day Workshop, *ad honorem*, Universidad Tecnológica de Panamá (Technological University of Panama).

United States

- 2023 **Celebration for Resilience**, Organizer, Knowledge Exchange for Resilience Annual Reception for Piper Trustees, Fellows, and Partners, featuring Humanitarian and Chef José Andrés, World Central Kitchen. Gammage Auditorium (1,500 tickets sold), November 8, Tempe, Arizona.
- 2023 “Designing Resilience Dividends: Mapping Climate Resilience Nationwide,” Knowledge Exchange for Resilience and Decision Theater, with US Census Bureau; Organizer, Facilitator, and Speaker; including FEMA, NOAA, NASA, SwissRe, April 13, Washington, DC.
- 2023 Hunch Lunch: Urban Agriculture, Organizer and Facilitator, Knowledge Exchange for Resilience Fall Signature Event, with SRP and City of Phoenix, hosted at the Old Main Ballroom, ASU campus, April 5, Tempe, Arizona.
- 2022 **Celebration for Resilience**, Organizer, Producer, Knowledge Exchange for Resilience Annual Reception for Piper Trustees, Fellows, Awardees and Partners, featuring Dan Heath, author of *Upstream*. Orpheum Theater, November 17, Phoenix, Arizona.

- 2022 “Advancing Women’s Prosperity,” Knowledge Exchange for Resilience and Walton Center for Public Health, for and with NASA SERVIR and Amazonia Hub; Organizer, Facilitator, and Speaker; for 28 women attendees from Latin America, May, Tempe, Arizona.
- 2022 Hunch Lunch: Energy Transformations and the Electrification of Transportation, Co-organizer, Knowledge Exchange for Resilience Signature Event, hosted at the Salt River Project Headquarters, June 15, Phoenix, Arizona.
- 2021 **Celebration for Resilience**, Organizer, Knowledge Exchange for Resilience Annual Reception for Piper Trustees, Fellows, and Partners, featuring Jessica Bruder, author of *Nomadland*. Heard Museum, November 18, Phoenix, Arizona.
- 2021 “Designing Resilience Dividends: Energy and Housing Futures,” Knowledge Exchange for Resilience and Decision Theater, with Salt River Project and Arizona Public Service; Organizer, Producer, and Speaker; including panelists Michael Crow and Mayor Kate Gallego for 60 multi-sector attendees and stakeholders, June 29, Online hosted from Tempe, Arizona.
- 2021 “Funding your Teaching and Research,” Geography Faculty Development Alliance Early Career Workshop session, led by Michael Solem and Ken Foote, Invited Workshop presenter with Scott Freundshuh and Antoinette Winkler-Prins, June 4, Online hosted from San Marcos, Texas.
- 2021 Hunch Lunch Connections: Alumni Circle of Fellows, Organizer and Facilitator, Knowledge Exchange for Resilience Signature Event, hosted at the Old Main Ballroom, ASU campus, September 24, Tempe, Arizona.
- 2021 Walking the Tightrope: Practical Ideas for for Women to Advocate for Themselves and Others, Virtual Workshop Co-Organizer and Facilitator, with Libby Wentz, AAG Annual Meeting, April 8, Online hosted from Seattle, Washington.
- 2020 **Leadership and Resilience** in the time of COVID-19, Organizer, ASU Knowledge Exchange for Resilience, and co-hosted by the College of Integrative Sciences and Arts, The College of Liberal Arts and Sciences, and ASU ADVANCE, featuring women CEO/Presidents from Valley of the Sun United Way, Vitalyst Health Foundation, and Arizona Town Hall.
- 2020 **Census Matters**: Symposia on the importance of Census 2020 for Maricopa County, Organizer and Moderator, sponsored by the Knowledge Exchange for Resilience, School of Geographical Sciences and Urban Planning, and Cronkite School of Journalism, with Shea Lamar, Sarah Cohen; featuring Deirdre Dalpiaz Bishop, Chief, Geography Division, US Bureau of the Census. January 30, Phoenix, Arizona.
- 2019 **Celebration for Resilience**, Organizer, Knowledge Exchange for Resilience Annual Reception for Piper Trustees, Fellows, and Partners, featuring Dr. Judith Rodin, Rockefeller Foundation *emeritus*, and Michael Crow. Desert Botanical Gardens, November 19, Phoenix, Arizona.
- 2019 Hunch Lunch: Food Security in Resilient Communities, Organizer and Facilitator, Knowledge Exchange for Resilience Fall Signature Event, with Valley of the Sun United Way and the Phoenix Rescue Mission, hosted at the Mission Possible Café, October 9, Phoenix, Arizona.
- 2019 Hunch Lunch: Youth Building Resilience through Places of Play and Learning, Organizer and Facilitator, Knowledge Exchange for Resilience Spring Signature Event, with Global Sport Institute, Initiative on Creativity, Place and Equitable Communities, Valley of the Sun United Way, May 2, Scottsdale, Arizona.
- 2019 Walking the Tightrope: Practical Ideas for Finding Your Voice, Workshop Co-Organizer and Facilitator, with Libby Wentz, AAG Annual Meeting, April 6, Washington, DC.

- 2018 Mapathon training and data creation event to build OSM geospatial data basemap for Philippines flooding mitigation efforts, for 20 students across ASU campus, November 8, Tempe, Arizona.
- 2018 Hunch Lunch: Heat Resilience, Organizer and Facilitator, Knowledge Exchange for Resilience Fall Signature Event, with Utility Assistance Network, Salvation Army, and AZCEND, September 15, Scottsdale, Arizona.
- 2018 YouthMappers Research Fellowship Symposium and Workshop, Event Co-Organizer and Co-Facilitator, with Brent McCusker and Nuala Cowan, for 15 faculty and university students from Uganda, Nigeria, Colombia, South Africa, Bangladesh, Ghana, Italy, and Zambia, June 2-14, Washington DC, and Morgantown, West Virginia.
- 2018 Walking the Tightrope: Practical Ideas for Women in Geography to Exercise a Leadership Mindset, Co-Organizer and Facilitator, with Libby Wentz, AAG Annual Meeting, April 12, New Orleans, Louisiana.
- 2017 Creating Story Maps for Humanitarian and Development Action, workshops for 65 undergraduates, Facilitator, November 7 & 8, Lubbock, Texas.
- 2017 From Grove to Glass: Using geospatial mapping in an application for fruit juice factory, a workshop on ArcGIS Online and Atlas, 150 freshman high school students at Academy High School, Lecturer and Facilitator, October 6, Plano, Texas.
- 2017 Mapathon training and data creation event to build OSM geospatial data basemap for Puerto Rico humanitarian rescue and recovery efforts after Hurricane Maria, for 70 students across Texas Tech campus, September 28, Lubbock, Texas.
- 2017 Mandela Washington Fellowship Young African Leaders Initiative Mapping Workshop, with TTU Office of International Affairs Amy Boren, Lecturer and Facilitator, June 28, Lubbock, Texas, for 25 Public Management fellows from across Africa.
- 2017 South Central Climate Science Center internship workshop on creating open geospatial data, June 25, Lubbock, Texas.
- 2017 Best Practices in Project Based Learning and Authentic Experiences for Open Geospatial Education in Secondary Settings, Workshop Organizer and Facilitator, with Niem Tu Huynh, AAG Annual Meeting, April 8, Boston, Massachusetts.
- 2017 Walking the Tightrope: Practical Ideas for Building Inclusive Spaces for Women in Geography, Organizer and Facilitator, with Rickie Sanders, AAG Annual Meeting, April 7, Boston, Massachusetts.
- 2016 Mapping to fight Malaria in Kenya, Instructor, training and career awareness session for ~120 secondary students, September 30, Academy High School, Plano, Texas.
- 2016 Science: It's a Girl Thing : Open Mapping, Instructor for Texas Tech Office of Diversity and Community Engagement summer workshop for at-risk female secondary school students, June 12-16, Lubbock, Texas.
- 2016 Mapping to fight Malaria in Mozambique, Instructor, training and career awareness session for ~90 honors students, May 20, Plano East High School, Plano, Texas.
- 2016 First US Five-Site Simultaneous Mapathon: Creating Open Spatial Data for Malaria Prevention in Mozambique. Co-organizer with TTU, GWU, WVU, University of Central Florida, George Mason University, with USAID GeoCenter and Peace Corps; AAG Annual Meeting, April, San Francisco, California.

- 2016 Walking the Tightrope: Making Ideas on Power and Resilience Practical for Women's Careers in Geography, Workshop Organizer, Introducer, and Facilitator, with Libby Wentz, AAG Annual Meeting, April, San Francisco, California.
- 2016 Faculty Proposal Development Workshop Series: Modular Instructional Support to Improve Competitiveness to Externally Funded Research Opportunities, Workshop Designer and Lead Instructor, with Pat DeLucia, Office of the Vice President for Research, Texas Tech University, January 20, June 1-3, and August 23, Lubbock, Texas.
- 2015 Early Investigator Faculty Proposal Development Workshop: A HandsOn Approach to Improve Competitiveness to Federal Research Opportunities, Workshop Designer and Lead Instructor, with Pat DeLucia, Office of the Vice President for Research, Texas Tech University, June and August, Lubbock, Texas.
- 2015 Mapathon: President's Malaria Initiative in Mozambique. Co-organizer with George Washington University and West Virginia University; USAID and Peace Corps, November, Lubbock, Texas.
- 2015 Mapathon: Feed the Future in Bangladesh. Co-organizer with George Washington University and George Mason University; Center for Geospatial Technology, March, Lubbock, Texas.
- 2015 Walking the Tightrope: Negotiating for Success, Workshop Organizer, Introducer, and Facilitator, with Libby Wentz, AAG Annual Meeting, April, Chicago, Illinois.
- 2014 Walking the Tightrope: the search for practical ways to advance women's careers in geography, Workshop Organizer, Introducer, and Facilitator, with Libby Wentz, Lesley Rigg, Mona Domosh, Amy Glasmeier, John Harrington, Jr., AAG Annual Meeting, April, Tampa, Florida.
- 2012 The AAG ALIGNED Planning Toolkit for Enhancing Diversity in Departments, Organizer and Facilitator, AAG Annual Meeting, February, New York, New York.
- 2010 "Geography in the Americas Bilingual Workshop: Publishing Across National, Institutional, and Linguistic Borders / *Geografía en las Américas: publicando más allá de las fronteras nacionales, institucionales y lingüísticas*" Co-Instructor with Osvaldo Muñoz of Texas State University San Marcos. AAG Annual Meeting, April, Washington, DC.
- 2008 "Preparing Competitive Research Grant Proposals." Organizer and Presenter of 4-hour workshop sponsored by the EDGE Project, AAG Annual Meeting, Boston, Massachusetts.

SELECT DIGITAL PRODUCTS, TRADEMARKS & COPYRIGHTS

- 2023 *Resilience Hubs Foundation Course* [Content contributor, executive producer, faculty instructor] ASU **Career Catalyst** online self-paced course available from ASU Learning Enterprise, with Sarah Bassett, at <https://careercatalyst.asu.edu/programs/resilience-hubs-foundations>.
- 2023 *Census Community Resilience Estimates (CRE) for Heat* [Contributing lead researcher] **Federal Dataset** available from bit.ly/CensusCRE4HEAT, also documentation and acknowledgement at bit.ly/CensusCRE4HEATdocs.
- 2022 *The Power of YouthMappers: Shining a Light on the Movement*, Executive Producer, Narrator, by **Documentary** filmmaker Liz Moughon, (24 minutes). Full film available from www.youtube.com/watch?v=xWOqYtv6skI. Trailer (74 seconds) available from www.youtube.com/watch?v=a47PIMo6-UY.

- 2022 *Origins | A new model for building community resilience*, Executive Producer, Writer, Narrator, by **Documentary** filmmakers Fervor Creative, (19 minutes). Full film available from www.youtube.com/watch?v=CtA5fa8ZtN0&t.
- 2022 Praharaj, Sarbeswar, Jayson Matthews, Steve Torres, Natalia Ronceria Ceballos, Elizabeth Wentz, and Patricia Solís. “Household Expenditure and Income Gap Highlighter Tool (HEIGHT).” Resilience Data **Dashboard** Series, Knowledge Exchange for Resilience, Valley of the Sun United Way. Available from Arizona State University, <https://resilience.asu.edu/economic-resilience-dashboard>
- 2021 Lamar, Shea, Lora Phillips, and Patricia Solís. “Visualization: Maricopa County Evictions Dashboard.” Resilience Data **Dashboard** Series, Knowledge Exchange for Resilience, Maricopa County Justice Courts, 2016-2020. Available from Arizona State University, <https://resilience.asu.edu/evictions-dashboard>
- 2021 Praharaj, Sarbeswar, Elizabeth A. Wentz, Yash Vakil, and Patricia Solís. “Visualization: Temperatures in Maricopa County.” Resilience Data **Dashboard** Series, Knowledge Exchange for Resilience and Arizona State Climate Office, 1900-2018. Available from Arizona State University, <https://resilience.asu.edu/temperature>
- 2021 **Patent Application** submission to USPTO for Knowledge Alliances Tool: Systems and Methods for Facilitating Formation of University-Community Partnerships, Serial No. 63/253,382, with Mason Mathews and Brajesh Karna.
- 2021 Recognition of Resilience (2020), **Documentary**; responsible for content development and script production with Fervor Creative, nominated for two Emmy® awards by the Rocky Mountain Chapter of the National Academy of Television Arts & Sciences (categories of Societal Concerns Long Form Content and Editing) <https://resilience.asu.edu/recognition-of-resilience>
- 2020 Praharaj, Sarbeswar, Carter Wang, Lora Phillips, Patricia Solís, and Crystal Alvarez. “Visualization: Economic Resilience **Dashboard**.” Resilience Data Dashboard Series, Knowledge Exchange for Resilience, Bureau of Labor Statistics, Department of Labor, Census Bureau, and Department of the Treasury. Available from Arizona State University, <https://resilience.asu.edu/economic-resilience-dashboard>
- 2019 Solís, Patricia, et al. “Federal Shutdown: Economic Resilience in Maricopa County.” Online **Story Map**, available from <https://arcg.is/1PW8rb>
- 2019 YouthMappers **Story Map** of Projects Around the World; website on Wix.com, blog, suite of chapter participation and reporting forms and news and programming opportunities, social media includes facebook page, twitter, and instagram. Blog named top 100 blogs for Youth (#43). Grew Facebook page to 2,200+ followers. Twitter to 3,000+ followers. Webpage reached nearly 14,000 unique users and 57,000 pageviews in 2 years. Principal Investigator, Website Designer, Content Producer, Blog Writer and Editor, Story Map Developer. www.youthmappers.org
- 2017 Registered **Trademark**, YouthMappers®, Reg. No. 5.203.611, U.S. Patent and Trademark Office, Class 41, Ser. No. 87-165,163 to Solís, Patricia (individual). Renewed 2023-2033.
- 2016 KTTZ Inside Texas Tech: YouthMappers Local **Television Feature** Story <https://radio.kttz.org/term/youth-mappers#stream/0>
- 2012 My Community, Our Earth: Geographic Learning **Toolkit** for Sustainable Development; online educational system featuring ten years of partnership resources on geography and GIS for youth-led sustainability projects; ArcGIS Online; digital library and project gallery on Climate Change, Food Security, Vulnerability and Hazards, the Green Economy, and Youth Leadership. Project Director, Designer, and Lead Developer. www.mycoe.org [AAG has retired program.]

- 2011 ALIGNED Geography Department Online GIS Planning **Toolkit**; online spatial information system featuring US Census data on age, race, and ethnicity and US Department of Education National Center for Educational Statistics data on undergraduate enrollment, The College Board data on Advanced Placement participation, NSF data, AAG Departmental Survey data; integrated with a digital clearinghouse of resources / templates to support increasing the numbers and improving the educational experience of underrepresented populations in US higher education. Project Director, Designer, and Lead Developer, funded by NSF. Pilot used by 11 US departments with geography programs. www.aag.org/alignedtoolkit [AAG has retired program.]
- 2010 Climate Change & Hazards Education Knowledge Environment (C2HEKE); collaboratively authored **Wiki** knowledge environment developed to support the Pan American Advanced Studies Institute in Panama City, Panama; included bilingual glossary of disciplinary terminology on climate change and hazards; six interdisciplinary white papers; English and Spanish version of the research agenda; record of live workshop participant commentary; and repository of collective research work. Principal Investigator, Wiki Designer, and Lead Author, with 49 co-authors, funded by NSF. In June 2010, the site received 10,000+ page views, 1,740 visits by 446+ persons from 20 countries. <https://sites.google.com/a/aag.org/c2heke/> [AAG retired program.]
- 2009 Geographic Technologies for Sustainable Development Digital Learning Adventures; online free interactive educational **modules** to teach use of geographic technologies for the United Nations WEHAB priority themes of the UN Decade of Education for Sustainable Development; target audience international youth aged 14-17, pedagogy using actual research on water, energy, health, agriculture, biodiversity in Hawaii, Ghana, Turkey, Nicaragua, and the Philippines. Creator, Co-Designer, and Editor, for My Community, Our Earth Partnership, supported by Esri, US Department of State, USDA, USAID, US Geological Survey. US Section 508 compliant for persons with disabilities. www.aag.org/mycoe/digital-library/adventures [AAG retired program.]
- 2004 Literary **Copyright** Certificate Registration #548-2010-0430.094416.

FELLOWSHIPS, HONORS, AWARDS

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| 2024 | American Association of Geographers Honors, Media Achievement Award |
| 2023 | President's Award for Global Engagement, Arizona State University |
| 2023 | Honored by Mayor as Distinguished Visitor, Santo Domingo, Dominican Republic |
| 2021 | American Association of Geographers Ronald F. Abler Distinguished Service Honors |
| 2019 | Data Passion Team Award to Knowledge Exchange for Resilience, Data Impact Awards of the ASU University Technology Office |
| 2019 | State of Arizona Geospatial Volunteer of the Year, Arizona Geographic Information Council |
| 2018 | Fulbright Award, Specialist Program hosted by Politecnico di Milano, Italy, July 16-31 |
| 2018 | Enlaces Award, Conference of Latin Americanist Geographers |
| 2017 | International Community Research Awardee, Citizen Science GIS |
| 2017 | Honored by Mayor as Distinguished Visitor, City of La Paz, Bolivia |
| 2016-2017 | Texas Tech University Service Learning Faculty Fellow |
| 2016-2017 | Texas Tech University Service Learning Faculty Fellow |
| 2014-2017 | Vice President, (Elected), PanAmerican Geography Commission of the PanAmerican Institute of Geography and History of the Organization of American States (OAS) |
| 2015 | Kansas State University Arts & Sciences Merit Award |
| 2015 | Service Excellence Leave Award, Texas Tech University |
| 2015 | National Council for Geographic Education Outstanding Support for Geography Award |
| 2013 | Kansas State University Alumni Fellow |

2012	National Researcher Designation, Category II, Panamanian Ministry of Science, Technology and Innovation
2011-2014	Appointed Coordinator, Research Committee, PanAmerican Geography Commission of the PanAmerican Institute of Geography and History of the OAS
2010-2015	Appointed Geography National Representative to the US National Section, PanAmerican Institute of Geography and History of the Organization of American States (OAS)
2007	Enlaces Award, Conference of Latin Americanist Geographers (in recognition of building linkages among geographers across the Americas)
2006-2007	National Science Foundation International Research Fellow
2006	Kansas State University Distinguished Geography Alumni, Inaugural Recipient
2002	T. Anne Cleary Fellowship, University of Iowa, Graduate College
2002	Outstanding Teaching Assistant, University of Iowa, College of Liberal Arts
1998-2002	Presidential Fellow, University of Iowa, Graduate College
2001	Awarded Fulbright Fellowship to Argentina
1999-2001	Crossing Borders Fellow, Ford Foundation, University of Iowa
2000	Graduate Student Senate Forum 2000, Best Paper Presentation
1999	Celebrating Diversity Award, National League of Cities
1998	Community Achievement Award, Kansas Department of Commerce & Housing
1998	Community Showcase Award, Kansas Center for Community & Economic Development
1996	Second place, all-university contest for KSU faculty-selected Master's Thesis of the Year
1992-1993	German Study Exchange Scholarship, Kansas State University
1989-1990	Dean's Scholar, College of Engineering, Kansas State University
1989	State of Kansas Scholar; Neodesha High School Valedictorian; William Randolph Hearst Foundation Scholar, Kansas Senator

PROFESSIONAL AND COMMUNITY SERVICE

2023-25	Council Liaison, AAG Committee on the Status of Women in Geography
2024	National Science Foundation Panel Reviewer, Research Experiences for Undergraduates (REU) Sites in the Social, Behavioral and Economic Sciences (SBE) Directorate
2023	Data Science Initiative, Committee Member, ASU Knowledge Enterprise
2023	Data Advisory Committee, Arizona Health Improvement Plan
2023	Subject Matter Expert Reviewer, Arizona State Hazards Mitigation Plan
2023	Reviewer, <i>Journal of Geographical Systems</i> , <i>Regional Science</i> , <i>Journal of Urban Technology</i>
2023	National Science Foundation Ad Hoc Reviewer, Science, Technology & Society (STS)
2022-24	Global Futures Laboratory Justice, Equity, Diversity and Inclusion Committee, university leadership appointed member
2022-23	Global Futures Laboratory Impact Committee, university leadership appointed member
2022-23	United Nations Gender + Environment Data Alliance, Global Futures Laboratory leadership appointed inaugural liaison
2022	Taylor Institute Think Tank: Building a Geospatial Intelligence Model, member
2021-23	SDGs and Beyond Task Force, ASU, member; ASU #1 in the US and #2 in the world (Times Higher Education global rankings for SDG Impact)
2021-22	School of Geographical Science & Urban Planning Fixed Term Committee, member
2021-22	School of Geographical Science & Urban Planning Engagement and Inclusive Excellence Committee, member
2021-22	School of Geographical Science & Urban Planning Equitable Places Lab, member
2020-21	Subject Matter Expert, SDG #8 and SDG #11, ASU THE Impact Ranking Working Group

- 2021 Ad-Hoc invited Subject Matter Expert Reviewer (citizen science), *Proceedings of the National Academy of Sciences*
- 2021 Reviewer, *Professional Geographer*
- 2021 National Science Foundation Ad Hoc Reviewer, Human-Environment and Geographical Sciences Program (HEGS)
- 2020 National Science Foundation Proposal Review Panelist, Human-Environment and Geographical Sciences Program (HEGS), November
- 2020 Internal committee member, judge and panelist, invited by International Development Associate Vice President, ASU Devex Global Hackathon
- 2020 COVID-19 Research Task Force, ASU Office of Knowledge Enterprise Development
- 2020 National Council for Science and the Environment, Alliance for Resilience Consortium
- 2020 Panelist and Proposal Reviewer, NSF Human-Environment and Geographical Sciences (HEGS)
- 2020 Reviewer, *Journal of Geography in Higher Education*
- 2020 Reviewer, *Journal of Geographical Systems*
- 2020 Reviewer, *Journal of Geography*
- 2019 Panelist and Proposal Reviewer, NSF Advancing Information Science Learning Program
- 2018 Reviewer, *International Journal of Geographic Information Science*
- 2018/21 Editorial Board Member, *Geographical Review*
- 2017 Satellite Image Interpreter, GISCorps Volunteer for Direct Relief damage assessment in Puerto Rico from Hurricane Maria
- 2017/20 Voting Member (elected), Humanitarian OpenStreetMap Team
- 2015/18 Editorial Board, *Professional Geographer*
- 2015/18 Board Member, Conference of Latin Americanist Geographers (Finance & Program Committees)
- 2014/17 Reviewer, *Geographical Review*
- 2017 Reviewer, *Studies in Higher Education*
- 2017 Reviewer, *Population and Environment*
- 2016 Founder, Future Earth Open Network Community on Youth Education and Leadership
- 2016 Reviewer, International Council for Science (ICSU), Report on Interactions across SDGs
- 2016/17 Reviewer, *International Research in Geographical and Environmental Education*
- 2013/17 Member, International Geographical Union Commission for Latin American Studies
- 2014 Guest Editor, *Professional Geographer* FOCUS Section
- 2011/13 Funding Review Panel, Proposal Reviewer, US National Science Foundation
- 2013 Organized Student and Teacher Field Training for Public School, Escuela Padre Xavier Villanuela, for fossil digging and recovery in the Panama Canal Zone, Smithsonian Tropical Research Institute and University of Florida in Panama
- 2013 Faculty Stimulus Proposal Reviewer, Universidad Santa María la Antigua, Panama
- 2011 Editorial Reviewer, *Journal of Latin American Geography*
- 2010/12 Editorial Reviewer, *The Professional Geographer*
- 2011 Editorial Reviewer, *Southeastern Geographer*
- 2010 Organized Professional Development Program for St. George International School, Cerro Viento, Panama for 23 teachers to complete certification in *Teaching Pedagogies for Comprehension*, Harvard Graduate School of Education's Wide World Program
- 2010 Mentor, *Mastering Skills for Student Success*, Technological University of Panama
- 2009 Editorial Reviewer, *International Research in Geographical and Environmental Education*
- 2009 Proposal Reviewer, American Evaluation Association
- 2009 CoFounder and Lead, AAG Diversity Ambassadors
- 2007/09 Specialty Reviewer, *Occupational Outlook Handbook*, US Bureau of Labor Statistics
- 2007/18 Board Member, Alumni Advisory Board, Department of Geography, Kansas State University
- 2007 *Journal of Water Resources Management* Editorial Reviewer

- 2007 United Nations Development Programme Adviser to Secretary of Science, Technology and Innovation of Panama, *SENACYT Fellowship Program on International Universities*
- 2006 United Nations Development Programme Adviser to Secretary of Science, Technology and Innovation of Panama, *Strategic Plan and Capture of International Funds for Science, Technology and Innovation*
- 2006 Initiated first Spanish language and bilingual session series at the AAG Annual Meeting
- 2005 White Water to Blue Water Partnership Strategic Planning Committee
- 2005/06 International Geographic Information Fund Student Travel Grant, Selection Committee
- 2005 Initiated expansion of the *AAG Guide to Geography Programs* to include listings from Latin American and Caribbean Institutions (previously only North America)
- 2005 Initiated, developed concept and launched the AAG's Developing Regions Membership Program for discounted membership rates for members in developing economies
- 2005 External Evaluation Committee Member, *Convocatoria de Fomento a la Investigación y Desarrollo*, SENACYT, Panama
- 2004 Conference on Race/Ethnicity and Place, Program Committee
- 2003/06 Diversity Task Force, AAG Liaison and Committee Member
- 2003/06 AAG Federal Employment Geographer Definition Committee Member
- 2000 Elected Peer Representative to Oversight Committee, Crossing Borders Fellowship
- 1998/99 Graduate Student Senator, University of Iowa, Department of Geography
- 1998/99 Professional Development Committee Member, University of Iowa, Department of Geography
- 1998 Conference Planning Committee, Kansas Center for Community & Economic Development
- 1998 Seward County Community College, Business and Industry Advisory Board Member
- 1997/98 Evaluator, Huck Boyd Institute Community Impressions Program, Kinsley, Kansas
- 1997 Geography Alumni Panel, Kansas State University, Department of Geography
- 1997 Evaluation Committee, Kansas Department of Commerce & Housing Community Development Block Grant (CDBG) Program
- 1996 KSU Giessen/München/Zürich Exchange Program, Selection Committee member
- 1994 Professor Search Committee, KSU Department of Geography, Graduate Student Representative

MEDIA INTERVIEWS AND MENTIONS

- KTAR-92.3FM News Radio, "Share your perspective on heat for the governor's heat preparedness plan." 7 November 2023, Kate Ourada, <https://ktar.com>
- The New Yorker, "Surviving the Phoenix Heat." 19 August 2023, Geraldo Cadava, <https://www.newyorker.com/news/news-desk/surviving-the-phoenix-heat>
- The Today Show, "Extreme Weather Across U.S." 13 July 2023, Erin McLaughlin, <https://twitter.com/TODAYshow/status/1679447507087118337>
- NBC Nightly News with Lester Holt, "Unrelenting heat wave impacting 80 Million from California to South Florida, 12 July 2023 Segment 2, Erin McLaughlin, <https://www.youtube.com/watch?v=tgsbnUrx4P8>
- Arizona Republic, "More homes mean more heat. Can new building codes help save metro Phoenix from disaster?" 25 August 2023, Joan Meiners, bit.ly/3Rw3GLx
- Arizona Republic, "As Arizona builds to solve a housing crisis, will its homes withstand future heat extremes?" 31 July 2023, Joan Meiners, bit.ly/3Lfu1cE
- Futurecast – Julie Ann Wrigley Global Futures Laboratory, "Heat and Health Risks: A multifaceted human problem" Jason Franz, 4(Spr2023):28-33. https://issuu.com/asuoked/docs/gfl_2023_future_cast_vol4/26
- WWHGD - World Wide Human Geography Data Working Group, "YouthMappers for global good." Through the Human Geography Lens Spotify podcast, Episode 12 October 2022. Terri Ryan and Erik Rasmussen. <https://open.spotify.com/episode/7t2f2sIackRjRGaUVIAarD>
- KJZZ, "Hot Town: Nearly 30% of metro Phoenix's heat-related deaths occur in manufactured homes." Radio interview, 22 September 2022, Steve Goldstein, with Mark Kear. <https://bit.ly/kjzzheatsolis>
- CBS5 Phoenix Local 3TV, "Over one-third of heat-related indoor deaths occur in manufactured or mobile homes." Television News interview, 15 September 2022, Alexis Dominguez. <https://bit.ly/cbs5heatsolis22>

FOX 10 Phoenix Local TV, “Arizonans living in mobile or manufactured homes are at higher risk in the heat, research suggests.” Television News interview, 15 September 2022, Steve Nielsen. <https://bit.ly/fox10heatKER2022>

Geoholics, “Be a Great Ancestor,” podcast interview, Episode 139. August 2022. Kent Groh. <https://spoti.fi/3zTM15F>

Los Angeles Times, “Poor neighborhoods bear the brunt of extreme heat, ‘legacies of racist decision-making.’” 28 October 2021, Tony Barboza and Ruben Vines. <https://lat.ms/3w41he3>

Washington Post, “Extreme heat is killing people in Arizona’s mobile homes.” 2 July 2021, Karen Peterson. <https://wapo.st/3yooHe0> in Spanish at <https://bit.ly/3hlhHZW>

Arizona Republic, “Heat Killed a record number of people in Arizona last year, ‘a staggering increase’.” 23 April 2021, Ian James. <https://bit.ly/2ShmnWz>

ABC 15 News, “Arizona Researchers look for ways to decrease heat deaths in trailers.” Courtney Holmes. <https://bit.ly/32Y9y5y>

Arizona Republic, “Metro Phoenix’s eviction and foreclosure rates double U.S. average, new report says.” 9 September 2020, Catherine Reagor. <https://bit.ly/2ZmemQU>

Cronkite News – PBS, “Report: Arizona had highest ‘housing loss’ rate; more evictions coming.” 9 September 2020, MacKenzie Belley. <http://bit.ly/pbs3m7oB5e>

High Country News, “Extreme heat is here, and it’s deadly.” 1 September 2020, Jessica Kutz. <https://bit.ly/3gVo172>

The Washington Post, “Hottest season on record.” 1 September 2020, Ian Livingston. wapo.st/3bj6aFP

Devex, “The rise of collaborative mapping for the masses,” 29 July 2020, Gareth Willmer. <https://bit.ly/339WMCo>

National Geographic, “As summer arrives, how will the most vulnerable escape deadly heat and COVID-19?” 16 June 2020, Stephen Leahy. <https://on.natgeo.com/2YISFdX>

Arizona Mirror, “Experts fear COVID-19 pandemic will lead to more summer heat deaths,” 21 May 2020, Allison Stevens. <https://bit.ly/3ga1Fia>

U.S. Agency for International Development, Digital Strategy 2020-2024. “Empowering Youth to Drive Change in their Communities.” YouthMappers feature, p. 12, 6 May 2020, Mark Andrew Green. <https://bit.ly/3iaRsDP>

Los Angeles Times, “Coronavirus could worsen death toll of summer heat waves, health officials warn,” 5 May 2020, Anna M. Phillips and Tony Barboza. <https://lat.ms/2YFTtAd>

Arizona Republic, “Self-isolating from COVID-19 in a mobile home? That could be deadly in Arizona.” 3 May 2020, OpEd with Mark Kear, Margaret Wilder, David Hondula, and Mark Bernstein. <https://bit.ly/2WsytKN>

Reuters, “‘Visible women’: Feminist mappers bridge data gap in urban design,” 7 March 2020, Anastasia Moloney. <https://reut.rs/2YFM3wH>

U.S. Census Bureau, “Geographers Rely on Census Data,” 26 September 2019, Trudy Suchan. <https://youtu.be/QRkBRP7LaV4>

Deutsche Welle, “The US state at the forefront of extreme heat research,” 20 September 2019, Carla Bleiker. www.dw.com/en/the-us-state-at-the-forefront-of-extreme-heat-research/a-50425263

The New York Times, “As Phoenix Heats Up, the Night Comes Alive,” 12 August 2019, Margurite Holloway. www.nytimes.com/interactive/2019/climate/phoenix-heat.html

MEMBERSHIPS

Currently: American Association for the Advancement of Science; American Association of Geographers; American Geographical Society; Conference of Latin Americanist Geographers; Humanitarian OpenStreetMap Team; OpenStreetMap Foundation

Previously: American Evaluation Association; American Society of Association Executives; Gamma Theta Upsilon; International Geographical Union; National Council for Geographic Education; National Organization of Research Development Professionals; Phi Beta Kappa; Society of Research Administrators International

ADVISORS

Masters: Dave Kromm, Kansas State University (emeritus); M. Duane Nellis, President, Ohio University; and Steve White (deceased)

PhD: Tad Mutersbaugh, Professor, University of Kentucky

ADVISEES / MENTORING

Laura Vacherlon, Master's Thesis Committee, 2004, Benefiting from Disaster: Co-Benefits to Urban Heat Island Mitigation From Disaster Mitigation, The George Washington University
Noris Martínez, AAG Research Assistant 2006-2009 (Universidad Tecnológica de Panamá)
Astrid Ng, AAG Intern, 2010; AAG Research Associate, 2011-2015 (Esri Education Team)
Marcela Zeballos, AAG Intern 2009; AAG Research Associate, 2010, 2012-2015 Institute for International Education; 2016 (Texas Tech University)
Nekya Jenise Young, AAG Fellow, Diversity Ambassador, 2011-2014 (Texas Southern University)
Wei Zhang, Computer Science, TTU, Graduate Research Assistant
Nwasinachi Menkiti, Interdisciplinary Studies, TTU, Graduate Research Assistant, 2015-2019 and Master's Thesis Advisor, 2019, Understanding land cover change in a dry sub-humid nature reserve in Ghana through OpenStreetMap and remote sensing, Texas Tech University
Julia Kleine, Alex Bodegain, Kendall Merkal, Bruno Blanco, Emily Glaser, Megan Rodriguez, David Tomlinson, Cat Kade, TTU, USAID GeoCenter Virtual Interns
Nayara Vasconcelos, Geosciences, TTU, USAID Volunteer
Jesse Cathell, Geosciences, TTU, Senior Undergraduate Thesis, 2017
Faculty Student Organization Advisor to YouthMappers Chapter at Texas Tech University, 2015-2018
Lexie Priniski, Economics, ASU, Honors Undergraduate Thesis, 2018-19 (Co-Advisor Erik Johnston)
Faculty Student Organization Advisor to YouthMappers at Arizona State University, 2018-present
Elisha Charley, PhD Student in Urban Planning, ASU, Committee Member, 2019-2023 (Advisor Libby Wentz)
Jose Alejandro Cascante Campos, PhD in Geographic Education, Texas State University, Committee Member, 2019 (Advisor Osvaldo Muñoz-Solari)
Lora Phillips, Post Doctoral Researcher, Arizona State University
Graduate Research Assistants: (Knowledge Exchange for Resilience) Srinivas Vallabhaneni, MS, ASU; Alexandria Drake, PhD, ASU; Lily Villa, PhD, ASU; (YouthMappers) Sushil Rajagopalan, PhD, ASU; Amal Ajaddani, PhD, TTU; Emily Glaser, MS, TTU; Vivian Arriaga, BS, ASU; Negar Rahmatollahi, PhD, ASU; Maryam Shakib, PhD, ASU; Natalia Arruda, PhD, ASU
Urban Equity Interns (Summer 2019): Katsiaryna Varfalameyeva, Parker Shea, Paige Yager, Abdulrahman Alsanad
Chloe Carlson and Jacob Robinson (Fall 2019), ASU Barrett Honors Project
Jacob Robinson, 2020-2021, ASU Barrett Honors Undergraduate Thesis Committee Chair
Kate Whalen, PhD, McMaster University, Committee Member, 2020 (Advisor Antonio Paez)
Katsiaryna Varfalameyeva, MUEP, ASU Master of Urban and Environmental Planning, Thesis Committee Member (Advisor Deirdre Pfeiffer)
Natalia Arruda, MUEP, ASU PhD Urban Planning, Doctoral Committee Member
Oscar Lopez, Post Doctoral Scholar, Arizona State University
Thomas Drake, Trenton Ward, William Yeager, 2023-2024, ASU Barrett Honors Thesis Committee Member
Saeideh Sobhaninia, Post Doctoral Scholar, Arizona State University
Ebenezer Boateng, Post Doctoral Scholar, Arizona State University
Assistant Research Professors: Dr. Lora Phillips, Dr. Melissa Guardaro, Dr. Sarbeswar Praharaj, Dr. Margaret Hinrichs, Dr. Mason Matthews.

LANGUAGE PROFICIENCY

Spanish - Oral and written fluency (Certificate from Instituto de la Lengua Española para Extranjeros)
German - Advanced comprehension and intermediate composition.

RANGE OF INTERNATIONAL COLLABORATIONS

Developed research, educational and knowledge exchange activities with colleagues and mentees in ~seventy countries, countries visited:* Argentina*, Austria*, Bahrain, Bangladesh, Belgium*, Benin, Bhutan, Bolivia*, Botswana, Brazil*, Cambodia, Cameroon, Canada*, Chile*, Colombia*, Côte d'Ivoire, Costa Rica*, Democratic Republic of Congo, Dominican Republic*, Ecuador*, Egypt, Ethiopia, Fiji, France*, The Gambia, Germany*, Ghana, Guatemala*, Guyana, Haiti, Honduras, Hungary*, India, Iran, Israel, Italy*, Jamaica*, Jordan, Kenya, Laos, Lebanon, Malawi, Mexico*, Mozambique, Myanmar, Nepal*, Nicaragua, Nigeria, Pakistan, Panama*, Paraguay*, Peru*, Philippines, Puerto Rico*, Qatar, Romania, Rwanda, Saudi Arabia, Senegal, Sierra Leone, South Africa*, Sudan, Suriname, Switzerland*, Tanzania, Thailand, Tunisia, UAE, Uganda, Uruguay*, Vietnam, Yemen, Zambia.