Patricia Solís, PhD

EDUCATION

2002 **PhD Geography**, University of Iowa; 1996 **MA Geography**, 1994 **BS Physics**, **BA German**, Kansas State University; 1992–1993 Study Fellowship at ETH Zürich, Switzerland.

CURRENT APPOINTMENTS

Research Professor, School of Geographical Sciences and Urban Planning; Executive Director, Knowledge Exchange for Resilience, Knowledge Enterprise, **Arizona State University;** Faculty Affiliate with the School for the Future of Innovation in Society, Health Observatory, Senior Global Futures Scholar, Julie Ann Wrigley Global Futures Laboratory, Spatial Analysis Research Center; Co-Founder and Director, **YouthMappers®** since 2015.

DISTINGUISHED LEADERSHIP SERVICE

2021-2025 President, PanAmerican Institute of Geography and History of the Organization of American States, scientific diplomatic appointment via US Department of State; 2022-2025 National Councilor, American Association of Geographers; 2022 National Research Council Panelist, *Toward a Vision for a New Federal Data Infrastructure*; 2017-2020 Fulbright Specialist Roster of Experts (Politecnico di Milano 2018); Elected National Researcher in Panama (equivalent to National Academies); Served on 5 National Science Foundation Panels, frequent ad hoc reviewer; Editorial Board Member, *Geographical Review* & *Professional Geographer*.

SUMMARY OF RESEARCH PRODUCTIVITY

Produced more than 60 peer reviewed or refereed publications, 45 percent as first author, in flagship journals such as *Annals of the Association of American Geographers, Professional Geographer, Progress in Human Geography, Applied Geography, Remote Sensing, Geographical Review, International Journal of Cartography, GeoJournal, Environment and Planning B, Journal of Geography in Higher Education, Journal of Geographical Systems Journal of Geography,* etc.; Co-edited 2 books from major publishers: P.Solís & M.Zeballos (2023) *Open Mapping towards Sustainable Development Goals: Voices of YouthMappers on Community Engaged Scholarship*, Springer DOI:10.1007/978-3-031-05182-1 (accessed 386,000 times) and B.McCusker, A.Waquar, M.Ramutsindela & P.Solís (2022) *The Routledge Handbook of Development and Environment,* Routledge 978-1-138-32566-1. Published 32 other scholarly works, white papers, research agendas, reports, etc.; Collaborated with 178 co-authors, including 56 percent from majoritation nations and international students & faculty.

RESEARCH FUNDING

Won competitive externally supported projects from 24 distinct sponsors including 13 US federal government agencies. Total amount received for projects as Co-Investigator sums $74,062,336 awarded since 2003; Amount attributed as Principal Investigator, aka designed, proposed, won, and led, research projects sums $19,672,297 on 34 awards. Examples of recent major project funding titles include (as PI): Congressionally Directed Spending Award (via NIST) $2M to establish national Center for Heat Preparedness; *Principled Innovation, Mapping for Resilience, Humanitarian GeoAI*; *YouthMappers Open Geospatial Data Activity,* US Agency for International Development GeoCenter and YouthPower programs, $7.5M; (Co-I) Arizona Research Center for Housing Equity &

Sustainability, Department of Housing and Urban Development, $3M; Senior Personnel, National Science Foundation Southwest Futures Innovation Engine, Knowledge Translation & Community Partnership Team, $2M; Senior Personnel, Southwest Urban Corridor Integrated Field Laboratory, CoLead for Resilient Solutions, Department of Energy, $16M.

EDUCATIONAL ACTIVITIES

Design and instruction in full formal curriculum for 15 undergraduate and graduate courses in upper level topics, e.g. *Applied Open GIS for Global Development, Urban Sustainability & Development, Sustainable Development Strategies, Resources and the Environment, Urban Resilience Mapping, Open Mapping for Resilience*; Development and instruction in alternative credit-bearing formats, i.e. Study Abroad, Discovery Seminar, Independent Study, Capstone, Internship Credit, Individualized Instruction, Special Topics, Executive Education; 32 research assistants trained, 52 mentorships via undergrad honors, grad student research projects & postdocs, including service as member of 15 theses & dissertation committees; Co-Founded YouthMappers® with 420+ university-based chapters in 80+ countries serving 5,000+ students; Visited 40 countries; Conducted 27 international in-person workshops in places like Panama City, La Paz, Pretoria, Muscat, Katmandu, Bangkok, etc. & 41 in United States.

NOTABLE KEYNOTES, PRESENTATIONS & MEDIA

Invited Speaker, United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), *Seventh High-level Forum on United Nations Global Geospatial Information Management,* Mexico (2024); Keynote Speaker at FOSS4G Florence, Italy (2022), Voices that Inspire Panelist at the FEMA National Resilience Forum hosted by the Sundance Institute, online (2024); Plenary Welcome Speaker, Extreme Heat Summit, Federation of American Scientists, Washington, DC (2024); and 182 paper or panel presentations in many venues. Media interviews & research featured: *New York Times, National Geographic, Washington Post, Reuters, Los Angeles Times, The New Yorker, NBC Nightly News, The Today Show, NPR,* and more.

IMPACT AND CREATIVE SCHOLARLY PRODUCTS

US Patent No. US 12,314,296 B1 (2025) granted for Knowledge Alliance Tool: Systems and Methods for Facilitating Formation of University-Community Partnerships, Co-Inventors M.Mathews & B.Karna; Registered Trademark, YouthMappers®, No. 5.203.611, USPTO Class 41, Ser. No. 87-165,163 (2033); Contributions to development of (2024) US Census *Community Resilience Estimates (CRE) for Heat,* Federal Dataset, bit.ly/CensusCRE4HEAT; Key legislative scientific testimony for passage of (2024) Arizona State Law for Heat Protections of Tenants (HB2146) (2024); P.Solís, et al. (2024) *Recommendations Report to the Office of the Governor on Extreme Heat Preparedness in Arizona, at* https://hdl.handle.net/2286/R.2.N.191546; Altmetric score of 418.

SELECTED HONORS & RECOGNITIONS

2026 Fellow of the American Association of Geographers; 2024 American Association of Geographers Honors Media Achievement Award; 2024 Innovation in GIScience Education Award UCGIS; 2023 President's Award for Global Engagement Arizona State University; 2021 American Association of Geographers Ronald F. Abler Distinguished Service Honors; 2018 Enlaces Award, Conference of Latin Americanist Geographers; 2015 National Council for Geographic Education Outstanding Support for Geography Award; 2013 Kansas State University Alumni Fellow; 2007 National Science Foundation International Research Fellow.