Elizabeth A. Wentz

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Education

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| 1997 | Doctor of Philosophy, Geography, Pennsylvania State University |
| 1989 | Master of Arts, Geography, The Ohio State University |
| 1987 | Bachelor of Science with Honors, Mathematics,The Ohio State University |

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| **Administrative Appointments** |
| 2020-present | Vice Provost and Dean, The Graduate College, Arizona State University |
| 2020-2021  | Interim Director, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2015-2020  | Dean of Social Sciences, The College of Liberal Arts and Sciences, Arizona State University |
| 2018-2019  | Interim Director, School of Transborder Studies, Arizona State University |
| 2014-2019 | Associate Director, Institute for Social Science Research, Arizona State University |
| 2013-2015 | Director, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2010-2013 | Associate Director, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2010 | Leadership Fellow, Office of the Provost, Arizona State University |

**Administrative Accomplishments**

**Vice Provost and Dean, the Graduate College, May 2020 – present**

***Vice Provost:***

* The ASU BioDesign Internal Advisory Board, Member
* Military Affairs Council – ASU Office of the Provost, Member
* American Association for the Advancement of Science (AAAS) SEA Change Advisory Group, ASU selected for the Bronze level award
* ASU Lead on the President’s commitment to Black faculty, staff, and students on Presidential Postdoctoral Scholars and Presidential Graduate Assistantships
* ASU Academic Personnel Actions Reporting System (APARS) Governance Group – overseeing academic faculty annual evaluation policies and processes
* ASU’s Higher Learning Commission (HLC) accreditation member of the steering committee and chair of 3 subcommittees
* Search committee member:
	+ Dean Search for the Watts College of Public Programs and Community Solutions dean search
	+ Dean Search for Barrett, The Honor’s College at Arizona State University

***Dean:***

* Coordination of academic planning across all colleges for graduate education, including degree offerings in Los Angeles, Hawaii, Washington DC.
* Developed a strategic vision for the Graduate College that focuses on Graduate College Affinity, Increased Funding, Enrollment Growth, and Operational Efficiency.
* Sponsoring a dialog with Black, American Indian, and Latinx students through a student advisory group to increase the quality of student experiences.
* Advancing the Presidential Postdoctoral Fellowship Program and the Graduate Assistantship for Underrepresented Students in ASU’s 25 Commitments to Black faculty, students, and staff (LIFT Initiative).
* Active engagement with the Council of Graduate Schools
	+ Council of Graduate Schools, Advancement Advisory Committee
	+ Panelist, STEAM and the Future of Interdisciplinary Research: Engine of Innovation or a Bunch of Hot Air? Council of Graduate Schools annual meeting
* Coordinated a campus-wide COVID-19 response for graduate students by engaging with deans, associate deans, and staff across all colleges. Designed and implemented a plan that addresses short-term, medium-term, and long-term scenarios and solutions for students. This includes degree progress, mental health and wellbeing, financial stress, and the job market and career planning. Activities are ongoing and continue to be refined.
* Due to COVID-19 impacts, created new professional development programs for graduate students and postdoctoral scholars including Grad15, Career panel discussions, a Town Hall discussion, and a Caregiver Assistance Fund.
* Created new pathways to Graduate school including 4+1, 3+2, certificates, streamlined admissions.
* Advanced a plan to create greater financial resources for graduate students including completion fellowships, research awards, and emergency funding
* Advanced new awards for university-wide staff who are supporting graduate students.
* Partnering with ASU’s Educational Outreach and Student Services (EOSS) to enhance student support including working with the Graduate and Professional Student Association (GPSA) to support their goals, with a specific focus on underrepresented students and graduate stipends.
* Created new funding opportunities for students through partnerships with private foundations (Truman Foundation) and redefined 2 ASU Foundation accounts to increase access to support students.
* Created a system for tagging PhD dissertations with alignment with “ASU Design Aspirations.” Two-fold anticipated outcomes are: a) students engage more broadly with how their research contributes beyond their area of specialization; b) ASU is able to track contributions to the New American University.

**Dean of Social Sciences, July 2015 – May 2020**

***Featured accomplishments:***

* Led the successful bid to the National Science Foundation for the ASU ADVANCE Institutional Transformation (IT) grant (~$3M over 5 years). The ASU ADVANCE IT expands the ASU Charter to be inclusive of faculty. The ASU ADVANCE focuses on institution-wide efforts on hiring practices, policies around promotion and tenure, faculty retention, the Academic Program Review (APR) and professional development to increase the representation and success of women, African Americans, American Indian, and Latinx in faculty positions at ASU. My role as the grant PI is to build a team to implement the cooperative agreement. Tangible results include online professional development training modules, a male ally group, recommendations for modifications to faculty hiring strategies, and recommendations on promotion and tenure policies, and the early stages of a faculty personnel data dashboard. The team has grown from a team of 7 individuals to a team of 21, including PI/Co-PIs (5), Provost Fellow (1), staff (1), Graduate RAs (2), ADVANCE Fellows (6), senior personnel (3), student worker (1), and a partnership with the ASU SEA Change bid (3).
* Led the effort to build the Knowledge Exchange for Resilience (KER), a Virginia G. Piper Charitable Trust investment into Maricopa County community resilience ($15M over 6 years). KER builds community-wide commitment to resilience dividends through a data dashboard, the deliberate creation of community wide networks, and the co-creation of knowledge and solutions with nonprofit, government, and business sector partners. Team includes an Executive Director who oversees the daily operation of 23 staff, 20 Fellows, 7 cross-cutting scholars, and 18 undergraduate and graduate students.
* Hired National Academy of Sciences faculty including Greg Asner to create the ASU Center for Global Discovery and Conservation Science and establish the Global Airborne Observatory (GAO).
* Improved ASU HERD rankings in the social sciences to #4 in 2018.
* Increased philanthropy by facilitating interdisciplinary research and student success; exceeded the ASU Foundation Campaign 2020 goal for the social sciences ($2M). From January to June 2020, personal metrics included 28 high impact contacts and 4 closed funded opportunities totally over $800K.

***Other accomplishments include:***

* Led the dean level letters for more than 80 promotion, tenure, and promotion & tenure cases in the social sciences.
* Co-created a social science vision built on across-school themes: Health in the Social Sciences, Global Communities, Inequality, and Advancing Methods. Created faculty advisory groups to engage these topics across the schools with faculty cross-talks, poster session, professional development workshops, and featured presentations. Efforts led to multiple cross-school collaborations in research proposals.
* Led the application for ASU membership in the national Social Science Research Council (SSRC) University Fund; brought the American Association of Geographers (AAG) into the SSRC; represented ASU at the University Fund biennial meeting; shared communication of the SSRC with ASU social science faculty.
* Created a system of grant support for social science faculty including in-person training programs for NIH and private foundations; grew the number of staff to support faculty in the social sciences to apply for grants.
* Supported the visioning of the Sanford School of Social and Family Dynamics. Rebuilt the sociology focus in the Sanford School after long-term attrition of expert faculty; outcomes resulted in a highly diverse group of assistant professor hires and revising of the bachelor’s and graduate sociology degrees.
* Coordinated the hiring of National Academy of Sciences faculty to the social sciences including H. Russell Bernard (SHESC), Pauline Wiessner (SHESC), Michael Goodchild (SGSUP), and Gregory Asner (SGSUP).
* Led the university-wide effort for the @SocialSciences external website.
* Hired racially diverse and gender balanced leaders for the social sciences. And the conclusion of my time as Dean, 8 of the 9 directors were women and 4 were women of color.
* Fostered university-wide leadership mentoring among aspiring women leaders through a series of Leadership Circle Conversations, co-led with Minu Ipe (2018-2019).
* Increased the gender and racial diversity of the faculty, especially at the assistant professor level, across the social sciences.
* Provided yearly mentoring opportunities for assistant and associate professors.
* PLuS Alliance Fellow (2016 – present) and Fellows’ lead (2016 - 2018).

**Interim School Director**

I accepted these two temporary positions when there was a sudden leadership vacancy.

***2020 - 2021, School of Geographical Sciences and Urban Planning***

* Created visibility in leadership, collaboration, and school accomplishments to the university-wide leadership.
* Created a succession plan through the mentoring the potential future school leaders.
* Created professional development opportunities for staff.
* Redesigned the Office of Climatology.
* Launched the MA in Geography online.
* Supported the COVID-19 Community of Care response management team.
* Supported the Justice, Equity, Diversity, Inclusion (JEDI) school-wide committee.
* Hired 3 tenure-eligible faculty, 2 Full Professors, 1 tenure-track, Assistant Professor

***2018 - 2019, School of Transborder Studies***

* Created a staff-wide professional development plan.
* Created new processes for student progress in the School of Transborder PhD program
* Increased funding for the PhD program.
* Created $30K/year online revenue by launching selected courses online.

**Associate Director, Institute for Social Science Research (ISSR), 2014 - 2019**

***Selected accomplishments include:***

* Co-created the rebranding of the ISSR with Director Russ Bernard.
* Led and reviewed the bi-annual graduate student poster contest.
* Final reviewer for seed grant proposals.
* Invited selected participants to the ISSR workshop series.

**Director, School of Geographical Sciences and Urban Planning, October 2013 – June 2015**

***Selected accomplishments include:***

* Established the internationally recognized Urban Climate Research Center (UCRC) including acquiring initial investments and a cluster hire of 3 faculty; the UCRC continues to be central to cross-campus engagement (particularly with the School of Sustainability and the Fulton Schools of Engineering) in leading campus-wide urban climate mitigation, management, and adaptation efforts to respond to global climate change.
* Hired Stewart Fotheringham, member of the National Academy of Sciences, as a full-time, tenured faculty.
* Increased school revenue by launching 3 undergraduate online programs in the school that now have over 800 students generating over $2.4M in revenue annually for the school.
* Doubled the physical space available to SGSUP faculty through research space and office space in Coor Hall, including wet/dry lab spaces.
* Created a strategic plan to grow the Planning program through hiring of both assistant and full professors and started the process for the eventual successful accreditation of the Masters of Urban and Environmental Planning (MUEP) degree.
* Doubled the annual professional development fund for faculty and staff.
* Promoted faculty success through promotion and tenure processes and successful nominations for 3 university (Regents’), and multiple national and international awards.

**Associate Director, School of Geographical Sciences and Urban Planning, 2010-2013**

***Selected accomplishments include:***

* Met regularly with SGSUP leadership to advance degree programs, student success, and plan for faculty hiring. Specifically led efforts to standardize faculty workload agreements and a digital program to track student progress.
* Participated in the Executive Committee (ex officio), under the leadership of Director Luc Anselin.
* Coordinated with the School of Sustainability (SOS) to strength cross-school activities and partnerships, leading to the partnership for the Urban Climate Research Center (UCRC).
* Designed and implemented a pilot digital system for assessing student retention and degree completion.

**Academic Positions**

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| 2012-present | Professor, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2015-present | Affiliate Faculty, School for the Future of Innovation in Society, Arizona State University |
| 2011-present | Graduate Faculty, School of Sustainability, Arizona State University |
| 2004-2011 | Associate Professor, School of Geographical Sciences and Urban Planning, Arizona State University |
| 1997-2003 | Assistant Professor, Department of Geography, Arizona State University |
| 1993-1997 | Teaching Assistant, Research Assistant, and Instructor, Department of Geography, Pennsylvania State University |
| 1991-1992 | Associate in Research, Organization for Tropical Studies (OTS), Duke University |
| 1989-1991 | Research Associate, Department of Natural Resources Science, The University of Rhode Island  |
| 1988-1989 | Research Assistant, Department of Geography, The Ohio State University |
| 1986-1988 | College Intern, The Ohio Department of Natural Resources |

**Professional Honors and Awards**

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| 2020 | Fellow of the American Association of Geographers (AAG) |
| 2019 | ASU's Faculty Women's Association for Outstanding Faculty Mentor Award  |
| 2017 | Outstanding Doctoral Mentoring Award, The Graduate College, Arizona State University |
| 2015 - 2016 | Academy for Innovative Higher Education Leadership, Cohort 2 |
| 2015 | Waldo Tobler Lecture for the Geographic Information Systems and Science Specialty Group of the Association of American Geographers |
| 2013 | ASU's Faculty Women's Association for Outstanding Faculty Mentors Award (nominated) |
| 2012 | ASU's Faculty Women's Association for Outstanding Faculty Mentors Award (nominated) |
| 2010 | Leaders Fellow, Office of the Provost, Arizona State University |
| 2000 | Faculty sponsor, College of Liberal Arts and Sciences, Brian Gratton, Professor of History |
| 1997 | Student Paper Award, Auto-Carto 13 |
|  | Student Paper Award, Association of American Geographers Geographic Information Systems Specialty Group |
| 1994 - 1995 | Graduate Research Fellowship, Earth Systems Science Center, The Pennsylvania State University |
| 1994 | Student Paper Award, Association of American Geographers Geographic Information Systems Specialty Group |
| 1993 | Student Travel Award, National Center for Geographical Information and Analysis, GIS and Environmental Modeling Conference |
| 1988 | Student Travel Award, National Research Council, GIS in Geoscience Conference |

**Funded Research Proposals**

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| 2018 - 2023 | The Knowledge Exchange for Resilience, Virginia G. Piper Charitable Trust, Elizabeth Wentz (PI), $14,500,000 |
| 2018 - 2021 | NSF ADVANCE grant, Elizabeth Wentz (PI), Monica Gaughan (Co-PI), Lenore Dai (Co-PI), Erika Camacho (Co-PI), Philip Regier (co-PI), National Science Foundation Award # 1824260, $ $2,999,743 |
| 2018 - 2020 | DCL: INCLUDES: Early Stage Empirical Research (EAGER): Data and the Future of an Empirically Grounded Research Community for Broadening Participation in STEM, Kimberly Scott (PI) and Elizabeth Wentz (co-PI), National Science Foundation Award # 1812428, $299,700 |
| 2018 | Phase I of the SEER Knowledge Exchange: Urban Heat and Utility Assistance, Virginia G. Piper Charitable Trust, Elizabeth Wentz (PI), $500,000 |
| 2017-2022 | Training and Retaining Leaders in STEM – Geospatial Sciences, National Science Foundation award to the University of Maine with Kate Beard (PI), Laxmi Ramasubramanian (co-PI), Barbara Buttenfield (senior personnel), Sarah Battersby (senior personnel), Karen Kemp (senior personnel), and Elizabeth Wentz (senior personnel), $358,301 |
| 2016-2019 | GP-IMPACT: Geoscience-based workforce training and community preparedness for natural hazards, with Steven Semken and Patricia Gober, National Science Foundation, $481,235. |
| 2015-2018 | Synthesis of LCLUC Studies on Urbanization: State of the Art, Gaps in Knowledge, and new Directions for Remote Sensing Science, with Karen Seto and Burak Güneralp, NASA, 13-LCLUC13-2-0012, 1/1/2015 – 12/31/2017, $188,196 |
| 2013-2015 | Innovation in the Measurement of Community Contextual Features. Scott Yabiku (PI), with Jennifer Glick, Dirgha Ghimire, and Elizabeth Wentz. 1R21HD073758-01A1. National Institute of Child Health and Human Development, 6/15/2013-3/31/2015, $430,853 |
| 2012 - 2014 | Evaluation of Drought Risks and its Impact on Agricultural Land and Water Use to Support Adaptive Decision-making, Co-PI, National Oceanic and Atmospheric Administration (NOAA), with Soe Myint PI, $285,000 |
| 2010 - 2012 | International workshop on geospatial solutions to analyze rapid urbanization, PI, NSF, $45,000 |
| 2008 - 2012 | Advancing watershed N management at the local level: Incorporating stream reach ecosystem N sinks into an environmental spatial decision support system, Co-PI, USDA - CSREES - National Integrated Water Quality Program, $175,000 |
| 2006 - 2009 | SEI(GEO): Visual Geo-Analytics, Co-PI, NSF, with Peter Wonka (CSE), Anshuman Razdan (DCS) and Elizabeth A. Wentz (Geography). $623,361  |
| 2004 - 2011 | Decision Center for a Desert City: Science and Policy of Climate Uncertainty, Science member, National Science Foundation, $7,497,949 |
| 2004 | Monitoring Human-Environment Interactions in a Controlled Landscaping Experiment, Co-PI, College of Liberal Arts and Sciences Multi-investigator grant, $11,000 |
| 2004 - 2007 | Investigation of Rapid Urbanization Processes Using ASTER, MODIS, and Landsat Data, Co-PI, NASA, $782,225 |
| 2002 - 2007 | Central Arizona – Phoenix, Long Term Ecological Research (CAP – LTER) Co-PI, National Science Foundation, $819,990 |
| 2001 | Reconstruction of Fire History Patterns in the Greater Phoenix Area, PI, College of Liberal Arts and Science Multi-investigator grant, $16,140 |
| 2001 | Phoenix: The Im/Migrant Nexus Co-PI, College of Liberal Arts and Science Multi-investigator grant, $14,000 |
| 1999 | The Arizona 20-20 Challenge, Co-PI, Arizona Office of Tourism, $7,000 |
| 1999 - 2001 | Dynamics of an Urban Carbon Dioxide Dome, Co-PI, National Science Foundation, $498,367 |
| 1999 | Development and Testing a Trivariate Shape Measure for use in Geographical Analysis, College of Liberal Arts and Science Travel Grant, Arizona State University, $830 |
| 1998 - 1999 | Learning Physical Geography Through Interactive Laboratory Exercises, College of Liberal Arts and Science, Arizona State University, $11,631 |

###### Refereed Publications

Underlined names are student co-authors

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| 2022 | Mahtta, Richa, Michail Fragkias, Burak Güneralp, Anjali Mahendra, Meredith Reba, Elizabeth Wentz, and Karen Seto. 2022. Urban land expansion: the role of population and economic growth for 300+ cities, *npj, Urban Sustainability* (accepted) |
|  | Shutters, Shade, Joffa Applegate, Elizabeth A. Wentz, Michael Batty. 2022. Urbanisation Favours High Wage Earners, *npj, Urban Sustainability* (accepted) |
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| 20212020 | Jaramillo, Oscar Lopez, Joel Rinebold, Michael Kuby, Scott Kelley, Darren Ruddell, Rhian Stotts, Aimee Krafft, Elizabeth A. Wentz. 2021. Hydrogen Station Location Planning via Geodesign in Connecticut: Comparing Optimization Models and Structured Stakeholder Collaboration, *Energies* 14.22: 7747.

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Myint, Soe W., Rimjhim Aggarwal, Baojuan Zheng, Elizabeth A. Wentz, Jim Holway, Chao Fan, Nancy J. Selover, Chuyuan Wang, Heather A. Fischer. 2021. Adaptive Crop Management under Climate Uncertainty Changing the Game for Sustainable Water Use: Changing the Game for Sustainable Water Use. *Atmosphere* 2021, 12, 1080. https://doi.org/ 10.3390/atmos12081080Conrow, Lindsey, Siân Mooney, and Elizabeth A. Wentz. 2021. The association between residential housing prices, bicycle infrastructure and ridership volumes. *Urban Studies* 58, no. 4: 787-808.Wentz, Elizabeth A., Eric Shook, Joanna Merson. 2021. A spatially-dynamic network flow algebra, *Transactions in GIS*, p 1-19 DOI: 10.1111/tgis.12764Wang, Chuyuan, V. Kelly Turner, Elizabeth A. Wentz, Qunshan Zhao, and Soe W. Myint. 2021. Optimization of residential green space for environmental sustainability and property appreciation in metropolitan Phoenix, Arizona. *Science of the Total Environment* 763: 144605.Zhao, Qunshan, Ziqi Li, Dhrumil Shah, Heather Fischer, Patricia Solís, and Elizabeth Wentz. 2021. Understanding the interaction between human activities and physical health under extreme heat environment in Phoenix, Arizona. *Health & Place* 102691.Fischer, Heather A., and Elizabeth A. Wentz. 2021. Place attachment and learning outcomes among tourists who volunteer for a US National Park science volunteer program. *Applied Environmental Education & Communication* 20, no. 2: 123-138.Wang, Chuyuan, Patricia Solís, Lily Villa, Lily, Nayan Khare, Elizabeth A. Wentz, and Aaron Gettel. 2021. Spatial Modeling and Analysis of Heat-Related Morbidity in Maricopa County, Arizona. *Journal of Urban Health*, [https://doi.org/10.1007/s11524-021-00520-7](https://urldefense.com/v3/__https%3A/doi.org/10.1007/s11524-021-00520-7__;!!IKRxdwAv5BmarQ!KiGCzlKZ9YwbEMqVRxFCGwXsSc_lOIeMUjf5JnaiVqUymWgjpayAgJaot4zR6eIRdvKf$).Davis, Jonathan, K. David Pijawka, Elizabeth Wentz, Michelle Hale, and David A. King. 2021. Evaluating Geodesign for Community-Based Tribal Planning: The Role of Planners in Marginalized Communities. *Journal of the American Planning Association* 1-15.Deryc T. Painter, Shade T. Shutters, Elizabeth A. Wentz. 2020. Innovations and Economic Output Scale with Social Interactions in the Workforce, *Urban Science* 5.1: 21.Praharaj, Sarbeswar, David King, Elizabeth A. Wentz, and Christopher Pettit. 2020. Using aggregated mobility data to measure the effect of COVID-19 policies on mobility changes in Sydney, London, Phoenix, and Pune *Transport Findings* 17590*.*Davis, Jonathan, David Pijawka, Elizabeth A. Wentz, and Michelle Hale. 2020. Evaluation of community-based land use planning through Geodesign: Application to American Indian communities. *Landscape and Urban Planning* 203, 103880.Zhao, Qunshan, Chelsea Dickson, Jowan Thornton, Patricia Solís, and Elizabeth A. 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, 102241.Güneralp, Burak, Meredith Reba, Billy U. Hales, Elizabeth A. Wentz, and Karen C. Seto. 2020. Trends in urban land expansion, density, and land transitions from 1970 to 2010: a global synthesis. *Environmental Research Letters* 15 (4): 044015. |
| 2019 | Wang, Chuyuan, Yubin Li, Soe W. Myint, Qunshan Zhao, and Elizabeth A. Wentz. 2019. Impacts of spatial clustering of urban land cover on land surface temperature across Köppen climate zones in the contiguous United States. *Landscape and Urban Planning* 192 103668.Stoker, Philip, Heejun Chang, Elizabeth Wentz, Britt Crow-Miller, Gabrielle Jehle, and Matthew Bonnette. 2019. Building Water-Efficient Cities: A Comparative Analysis of How the Built Environment Influences Water Use in Four Western US Cities. *Journal of the American Planning Association* 1-14. |
| 2018 | Wentz, Elizabeth A., Abigail M. York, Marina Alberti, Lindsey Conrow, Heather Fischer, Luis Inostroza, Claire Jantz, Steward TA Pickett, Karen C. Seto, and Hannes Taubenböck. 2018. Six fundamental aspects for conceptualizing multidimensional urban form: A spatial mapping perspective. *Landscape and Urban Planning* 179: 55-62.Beard, Rachel, Elizabeth Wentz, and Matthew Scotch. 2018. A systematic review of spatial decision support systems in public health informatics supporting the identification of high risk areas for zoonotic disease outbreaks. *International journal of health geographics* 17.1 (2018): 38.Shimizu, Melinda, Elizabeth A. Wentz, Joanna Merson, D. Q. Kellogg, and Arthur J. Gold. 2018. Modeling anthropogenic nitrogen flow for the Niantic River catchment in coastal New England. *Landscape Ecology* 33 (8): 1385-1398.Wentz, Elizabeth A., and Melinda Shimizu. 2018. Measuring spatial data fitness-for-use through multiple criteria decision making. *Annals of the American Association of Geographers*, 1-18.Zhao, Qunshan, David Sailor, and Elizabeth A. Wentz. 2018. Impact of Tree Locations and Arrangements on Outdoor Microclimates and Human Thermal Comfort in an Urban Residential Environment *Urban Forestry & Urban Greening*Conrow, Lindsey., Elizabeth A. Wentz, Trisalyn Nelson, and Christopher Pettit. 2018. Comparing spatial patterns of crowdsourced and conventional bicycling datasets. *Applied Geography* 92C, pp 21-30 <https://doi.org/10.1016/j.apgeog.2018.01.009> |
| 2017 | Yabiku, Scott T, Jennifer Glick, Elizabeth A. Wentz, Dirgha J. Ghimire, and Qunshan Zhao. 2017. Comparing paper and tablet modes of retrospective activity space data collection. Survey Research Methods 11 (3): 329-344. |
|  | Chang, Heejun, Matthew Ryan Bonnette, Philip Stoker, Britt Crow-Miller, Elizabeth A. Wentz. 2017. Determinants of single family residential water use across scales in four western US cities Science of the Total Environment 596-597: 451-464.Mack, Elizabeth A., and Elizabeth A. Wentz. 2017. Industry variations in the broadband business nexus." *Socio-Economic Planning Sciences* 58: 51-62. |
|  | Zhao, Qunshan, Elizabeth A. Wentz, and Alan T. Murray. 2017. Tree shade coverage optimization in an urban residential environment." *Building and Environment* 115: 269-280 **DOI:** 10.1016/j.buildenv.2017.01.036 |
| 2016 | Wagner, Melissa, Joanna Merson, and Elizabeth A. Wentz. 2016. Design with Nature: Key lessons from McHarg's intrinsic suitability in the wake of Hurricane Sandy. *Landscape and Urban Planning* 155 (2016): 33-46. |
|  | Zhao, Qunshan and Elizabeth A. Wentz 2016, A MODIS/ASTER Airborne Simulator (MASTER) Imagery for Urban Heat Island Research, Data, 1(1), 7; doi:[10.3390/data1010007](http://dx.doi.org/10.3390/data1010007) |
|  | Crow-Miller, Britt, Heejun Chang, Philip Stoker, Elizabeth A. Wentz, 2016, Facilitating Collaborative Urban Water Management through University-Utility Cooperation, *Sustainable Cities and Society* 475-483. |
|  | Wentz, Elizabeth A., Sandra Rode, Xiaoxiao Li, Elizabeth M. Tellman, B.L. Turner II, 2016, Impact of Homeowner Association (HOA) Landscape Guidelines on Residential Water Use, *Water Resources Research* |
| 2015 | Deitrick, Stephanie and Elizabeth A. Wentz, Developing Implicit Uncertainty Visualization Methods Motivated by Theories in Decision Science, *Annals of the Association of American Geographers,* 105(3), 531-551. |
| 20142013 | Li, W., Chen, T., Wentz, E. A., & Fan, C., 2014, NMMI: A Mass Compactness Measure for Spatial Pattern Analysis of Areal Features. *Annals of the Association of American Geographers*, *104*(6), 1116-1133. Wentz, Elizabeth A., Angela J. Wills, Won Kyung Kim, Soe W. Myint, Patricia Gober, and Robert C. Balling Jr., 2014, Factors Influencing Water Consumption in Multifamily Housing in Tempe, Arizona. *The Professional Geographer*, 66(3): 501-510, DOI: 10.1080/00330124.2013.805627Shimizu, Melinda, Randall S. Cerveny, Elizabeth A. Wentz, and Kevin E. McHugh, 2014, Geographic and Virtual Dissemination of an International Climatic Announcement. *Bulletin of the American Meteorological Society*.Wentz, Elizabeth A., Sharolyn Anderson , Michail Fragkias , Maik Netzband, Victor Mesev , Soe W. Myint , Dale Quattrochi , Atiqur Rahman and Karen C. Seto , 2014, Supporting Global Environmental Change Research: A Review of Trends and Knowledge Gaps in Urban Remote Sensing, *Remote Sensing*, 6, 3879-3905; doi:10.3390/rs6053879Ouyang, Yun, Elizabeth A. Wentz, Benjamin L. Ruddell, Sharon L. Harlan, 2013, A Multi-Scale Analysis of Single-Family Residential Water Use in the Phoenix Metropolitan Area, *Journal of the American Water Resources Association*, DOI: 10.1111/jawr.12133Myint, Soe W., Elizabeth A. Wentz, Anthony Brazel, Dale Quattrochi, 2013, The impact of human-made features and natural landscapes on urban warming, *Landscape Ecology* 28(5):959-978, DOI: 10.1007/s10980-013-9868-yTalen, Emily, Eliot Allen, Amanda Bosse, Josh Ahmann, Julia Koschinsky, Elizabeth A. Wentz, and Luc Anselin, 2013, LEED-ND as an Urban Metric, *Landscape and Urban Planning* 119: 20-34 DOI:10.1016/j.landurbplan.2013.06.008Wentz, Elizabeth A., Angela J. Wills, Won Kyung Kim, Soe W. Myint, Patricia Gober, and Robert C. Balling, Jr., 2013, Factors Influencing Water Consumption in Multifamily Housing in Tempe Arizona, *The Professional Geographer* DOI:10.1080/00330124.2013.805627 |
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| 2012 | Wentz, Elizabeth A., Dale Quattrochi, Maik Netzband and Soe Myint 2012. Synthesizing urban remote sensing through application, scale, data and case studies, *Geocarto International*, DOI:10.1080/10106049.2012.687400 |
| 2011 | Gober, Patricia, Elizabeth A. Wentz, Timothy Lant, Michael Tschudi, and Craig Kirkwood 2011. WaterSim: A Simulation Model for Urban Water Planning in Phoenix, Arizona, USA *Environmental and Planning B* doi:10.1068/b36075  |
| 2010 | Wentz, Elizabeth A., Donna J. Peuquet, Sharolyn Anderson 2010. An ensemble approach to space-time interpolation. *International Journal of Geographical Information Science* 24(9): 1309-1325 |
|  | Garrity, Colleen M., Randall S. Cerveny, and Elizabeth A. Wentz, 2010.  Vertical moisture profile characteristics of severe surface drought and surface wetness in the western United States: 1973-2002. *International Journal of Climatology* 30: 894-900. DOI: 10.1002/joc.1944  |
|  | Lee, Seung-Jae, Elizabeth A. Wentz, and Patricia Gober 2010. Temporal Geographic Information Systems (TGIS) to Forecast Future Water Consumption in Phoenix, Arizona *Journal of Stochastic Environmental Research and Risk Assessment* DOI 10.1007/s00477-009-0317-z. |
| 2009 | Karnick, Pushpak, David Cline, Anshuman Razdan, Elizabeth A. Wentz, and Peter Wonka 2009. A Shape Grammar for Developing Glyph-based Visualizations, *Computer Graphics Forum* 28(8): 2176-2188 |
|  | Ruddell, Darren and Elizabeth A. Wentz 2009. Multi-tasking: scale in geography *Compass Geography* **DOI: 10.1111/j.1749-8198.2008.00206.x** |
|  | Yabiku, Scott T., Jennifer E. Glick, Elizabeth A. Wentz, Steven A. Haas, and Li Zhu 2009. Migration, health, and environment in the desert southwest. *Population Environment* 30(4): 131-158.  |
|  | Harms, Tamara K., Elizabeth A. Wentz, and Nancy B. Grimm 2009. Spatial heterogeneity of denitrification in semi-arid floodplains *Ecosystems* 12 (1): 129-143. DOI: 10.1007/s10021-008-9212-6 |
| 2008 | Wentz, Elizabeth A., David Nelson, Atiqur Rahman, William L. Stefanov, Shoursaseni Sen Roy 2008. Expert system classification of urban land use/cover for Delhi, India *International Journal of Remote Sensing* 29 (15): 4405-4427. |
|  | Williams, Emily A. and Elizabeth A. Wentz 2008. Pattern Analysis based on Type, Orientation, Size, and Shape *Geographical Analysis* 40(2): 97 – 122. |
|  | Walker, Jason, Robert C. Balling, Jr. John M. Briggs, Madhusudan Katti, Paige S. Warren, and Elizabeth A. Wentz 2008. Birds of a feather: interpolating distribution patterns of urban birds. *Computers, Environment, and Urban Systems* 32(1): 19-28. |
|  | Lee, Seung-Jae and Elizabeth A. Wentz. 2008. Applying Bayesian Maximum Entropy to Extrapolating Local-Scale Water Consumption in Maricopa County, Arizona. *Water Resources Research* 44(1): W01401, doi:10.1029/2007WR006101, 2008. |
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| 2007 | Myint, Soe, Elizabeth A. Wentz, and Sam Purkis 2007. Is Getis index more effective than spatial autocorrelation in detecting spatial pattern? A case study of an urban land use and land cover mapping. *Photogrammetric Engineering and Remote Sensing* 73(12): 1403-1415.  |
|  | Wentz, Elizabeth A. and Patricia Gober 2007. Factors Influencing Water Consumption for the City of Phoenix, Arizona, *Water Resources Management* 21(11): 1849-1863.  |

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|  | Edsall, Robert M. and Elizabeth A. Wentz 2007. Comparing strategies for active learning in introductory undergraduate geography courses: physical models vs. computer visualization. *Journal of Geography in Higher Education* 31(3): 427-444. |
|  | DiBiase, David, Michael DeMers, Ann Johnson, Karen Kemp, Ann Taylor Luck, Brandon Plewe, and Elizabeth Wentz 2007. Introducing the First Edition of Geographic Information Science and Technology Body of Knowledge*, Cartography and Geographic Information Science* 34(2) 113-120. |
|  | Keys, Eric, Elizabeth A. Wentz, Charles Redman 2007. The spatial structure of land use from 1970-2000 in the Phoenix, Arizona metropolitan area. *Professional Geographer* 59(1): 131-147. |
| 2006 | Wentz, Elizabeth A. 2006. Cognitive models of space *Encyclopedia of Human Geography*, Barney Warf (ed), Sage Publications, Inc, p 44-46Wentz, Elizabeth A., William Stefanov, Corinna Gries, Diane Hope 2006. A comparison of land use and land cover mapping approaches in an arid urban environment. *Computers, Environment, and Urban Systems* 30(3): 320-346. |
| 2004 | Koerner, Brenda, Elizabeth A. Wentz, and Robert Balling, Jr. 2004. Projected carbon dioxide (CO2) for the year 2020 in Phoenix, Arizona. *Environmental Management* 33 Supplement: S222-S228. |
| 2003 | Miller, Harvey and Elizabeth A. Wentz 2003. Geographic Representation in Geographic Information Systems and Spatial Analysis. *Annals of the Association of American Geographers* 93(3) 574-594. |
|  | Wentz, Elizabeth A., Aimee F. Campbell, Robert Houston 2003. Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys. *International Journal of Geographical Information Science* 17(7): 623 – 645. |
| 2002 | Day, Thomas A., Patricia Gober, Fusheng S. Xiong, and Elizabeth A. Wentz 2002. Temporal patterns in near-surface CO2 concentrations over contrasting vegetation types in the Phoenix metropolitan area. *Agricultural and Forest Meteorology* 110(3): 229-245. |
|  | Wentz, Elizabeth A., Patricia Gober, Robert C. Balling, Jr., Thomas Day 2002. Spatial Patterns and Determinants of Carbon Dioxide in an Urban Environment *The Annals of the Association of American Geographers* 92(1): 15-28. |
| 2001 | Wentz, Elizabeth A., Brandon J. Vogt, and Michael Kuby 2001. Use of geographic information systems for extraction of peak and canyon locations in the State of Arizona. *Cartography and Geographic Information Science*. 28(4): 259-271. |
|  | Kuby, Michael, Elizabeth A. Wentz, Brandon J. Vogt, and Randall Virden 2001*.* The Arizona 20-20 Challenge. *Tourism Geographies*. 3(4):454-473. |
|  | Wentz, Elizabeth A. and Barbara Trapido-Lurie 2001. Structured Internships in Geographic Information Science Education.  *Journal of Geography* 100(4): 140-144. |
| 2000 | Wentz, Elizabeth A. 2000. Development and Testing of a Trivariate Shape Measure for Geographic Analysis *Geographical Analysis* 32(2): 95-112. |
| 1999 | Wentz, Elizabeth A., JoAnn C. Vendor, and Cynthia A Brewer 1999. An Evaluation of Teaching Introductory Geography using Computer-based Tools. *Journal of Geography in Higher Education* 23(2) 167-179*.* |
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##### Book

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| 2013 | Wentz, Elizabeth A. 2013. How to design, write and present a dissertation research proposal. Sage Publications. |

##### Edited Books

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| 2017 | Quattrochi, Dale A., Elizabeth Wentz, Nina Siu-Ngan Lam, and Charles W. Emerson, eds. *Integrating Scale in Remote Sensing and GIS*. CRC Press, 2017. |
| 2006 | DiBiase, D., M. DeMers, A. Johnson, K. Kemp, A. Luck, B. Plewe, and E. Wentz, (editors), 2006. *Geographic Information Science and Technology Body of Knowledge,* 1st Ed*.* University Consortium for Geographic Information Science. Washington, DC: Association of American Geographers. |
| 2005 | Moeller, Matthias and Elizabeth A. Wentz (editors) 2005. *Proceedings of the ISPRS WG VII/I “Human Settlements and Impact Analysis” 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and 5th International Symposium Remote Sensing of Urban Areas (URS 2005).* The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. March 14-16, 2005, Tempe, Arizona, USA |

**Refereed Book Chapters and Conference Proceedings**

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| 2019 2018 | Pettit, C. Wentz E. Randolph B. Sanderson D., Kelly, F. Beevers, S., Reades J.  (2019) Tackling the Challenge of Growing Cities: an informed urbanisation approach, (Hawken, S, Han H, Pettit, C. eds) in Open Cities, Open Data, Palgrave Macmillan.Zhao, Q., Reynolds, R., Wang, C., & Wentz, E. A. (2019). A multidimensional urban land cover change analysis in Tempe, AZ. *2019 Joint Urban Remote Sensing Event (JURSE)*, 1–4. [https://doi.org/10.1109/JURSE.2019.8808957](https://urldefense.proofpoint.com/v2/url?u=https-3A__doi.org_10.1109_JURSE.2019.8808957&d=DwMFaQ&c=l45AxH-kUV29SRQusp9vYR0n1GycN4_2jInuKy6zbqQ&r=wYrLZ6YHNvyAejb1NIh7frLi4mO5Ijgbdn4tcSqXFqs&m=94eK4JssYhN6sZlE1Y96jgvy2YYjDfO6pn0s0CrNgSg&s=XA3bFFmU9ZLE4td_5G5MaDBIpHnRA2xOHOm7826fUek&e=) Pettit, C.J.  Ticzon,C . Reades, J. Wentz, E., Ong, P. Martin, C. Troy, L. Crommelin, L. (2018) How Disruptive Technology is Impacting the Housing and Property Markets in Real Estate and GIS The Application of Mapping Technologies, (Reed, R, Pettit, C, eds) Routledge, pp36-64.  |
| 2016 | Myint, S.W., Mesev, V., Quattrochi, D. and Wentz, E.A. 2016. Urban image classification: per-pixel classifiers, sub-pixel analysis, object-based image analysis, and geospatial methods. In P. Thenkabil (Ed) Remotely Sensed Data Characterization, Classification, and Accuracies. Boca Raton: Taylor & Francis, 219–230 |
| 2015 | Wentz, Elizabeth A. and Qunshan Zhao, Assessing Validation Methods for Building Identification and Extraction, *Joint Urban Remote Sensing Event* (JURSE), Lausanne Switzerland |
| 2012 | Larson, Kelli L., Dorothy C. Ibes, and Elizabeth A. Wentz. Identifying the water conservation potential of neighborhoods in Phoenix, AZ: an integrated socio-spatial approach. In *Geospatial Approaches to Urban Water Resources*. Ed., P. Lawrence. Springer Series Geotechnologies and the Environment: Planning and Socioeconomic Applications, 39 pp.  |
| 2009 | Elizabeth A. Wentz, William L. Stefanov, Matthias Möller, Maik Netzband, and Anthony Brazel 2009. The Urban Environmental Modeling (UEM) Project 100 Cities: the legacy of the first phase and next steps. Global Mapping of Human Settlement: Experiences, Data sets, and Prospects. P. Gamba and M. Herold (editors) Taylor & Francis |
| 1994 | Peuquet, Donna J. and Elizabeth A. Wentz 1994. An Approach for Time-Based Analysis of Spatiotemporal Data, *Advances in GIS Research* 1:489-504. |

### Non-refereed Publications

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| 2020 | 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>. |
| 2017 | Wentz, Elizabeth A., Britt Crow-Miller, Heejun Chang, and Philip Stoker, Moving beyond the case study to understand how and why cities function, *Parameters*, Social Science Research Council, August 23, 2017. |
| 2013 | Arnold, C., D. Kellogg, K. Forshay, C. Damon, E. Wilson, A. Gold, E. Wentz, and M. Shimizu. Tracking the fate of watershed nitrogen: The “N-Sink” Web Tool and Two Case Studies. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-13/230, 2013. |
| 2011 | Wentz, Elizabeth A., Karen Seto, Maik Netzband, Michail Fragkais, Soe Myint, Urban Remote Sensing (URS) and Forecasting Urban Landuse (FORE) workshops: common ground and targeted opportunities, *Viewpoints VI* |
|  | Dell’Acqua, Fabio, Elizabeth A. Wentz, Soe Myint and Maik Netzband, Urban areas: states-of-the-art in remote sensing and forecasting growth meet in a joint workshop at Arizona State University, *Earthzine, http://www.earthzine.org/2011/09/30/understanding-the-drivers-and-consequences-of-global-urbanization-using-emerging-remote-sensing-technologies/* |
| 2009 | Wentz, Elizabeth A. 2009. Harvey J. Miller in *Encyclopedia of Geography*, Barney Warf (ed). Sage Publications, Inc. |
| 2007 | Ruddell, Darren and Elizabeth A. Wentz 2007. Scale; Population; and Spatial Analysis: A Methodological Investigation, *Proceedings of the 15th ACM International Symposium on Advances in Geographic Information Systems (ACM GIS 2007)*, Seattle WA, November 2007. |
|  | Wentz, Elizabeth A. 2007. Structural Analysis of Land Use Pattern in Delhi India. Proceedings for the 32nd International Symposium on Remote Sensing of Environment. Sustainable Development Through Global Earth Observations, June 25 – 29, 2007, San Jose, Costa Rica |

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| 2005 | Netzband, Maik, Elizabeth A. Wentz, and Atiqur Rahman 2005. Urban land cover and spatial variation observation using satellite image data – the urban environmental monitoring project. Proceedings of the XXVIIIth URSI General Assembly, New Delhi India, October 2005. |
|  | Cole, Christopher, Elizabeth Wentz and Philip Christensen 2005. Expert system approach for classifying land cover in New Delhi India using ASTER imagery. *Proceedings of the ISPRS WG VII/I “Human Settlements and Impact Analysis” 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and 5th International Symposium Remote Sensing of Urban Areas (URS 2005).* The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. March 14-16, 2005, Tempe, Arizona, USA |
| 2003 | Wentz, Elizabeth A. 2003. Review of Modelling Scale in Geographical Information Science*,* N. Tate and Atkinson (eds) *Geographical Analysis* 35(2):177-178. |
| 2002 | Wentz, Elizabeth A. 2002. Review of Getting Started with Geographic Information Systems Third Edition Keith Clarke *International Journal of Geographical Information Science 16(2): 204-205.* |
| 2001 | Wentz, Elizabeth, Sharolyn Anderson, William L. Stefanov, and John Briggs 2001. Desert Fire History and Effects on the Phoenix, Arizona, Metropolitan Area. IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas, University of Rome La Sapienza, November 8-9, 2001, 154-158. |
| 2000 | Hepner, George, Carolyn Merry, Dawn Wright, Elizabeth Wentz, Sharolyn Anderson, Amy Budge 2000. Remotely Acquired Data and Information in GIScience. UCGIS Research Initiative. |
| 1999 | Burns, Elizabeth K. and Elizabeth A. Wentz 1999. Progress Toward Integrating Spatial Technologies for Urban Infrastructure Management ACSM Proceedings. |
| 1998 | Wentz, Elizabeth A. and Joseph A. Bishop 1998. Geographic Information System and Database Management at a Tropical Rainforest Research Station Republished in *GIS Methodologies for Developing Conservation Strategies*, 1998, Basil G. Savitsky and Thomas E. Lacher Jr. (eds), Columbia University Press, New York, 83-95 |

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| 1997 | Brewer, Cynthia A. and Elizabeth A. Wentz 1997. A Simplified GIS Interface for Learning Introductory Geomorphology. *Geocal*, 16: 6-10. |
|  | Wentz, Elizabeth A. 1997. Shape Analysis and GIS. *Auto-Carto* 13, 204-213. |
| 1996 | Wentz, Elizabeth A. 1996. Book review of *Innovations in GIS* Michael F. Worboys (ed.) 1994. In *Annals of the Association of American Geographers* 86:376-377. |
| 1995 | Wentz, Elizabeth A. and Joseph A. Bishop 1995. Geographic Information System and Database Management at a Tropical Rainforest Research Station. *Biology International* 30:10-19. |
| 1993 | Campbell, Aimee F. and Elizabeth A. Wentz 1993. Monkeying Around with ARC/INFO: GIS Methods in the Study of Primate Ecology and Conservation, *ARCNews* Redlands, CA: Environmental Systems Research Institute, Inc. Reprinted in *Liana* Durham, NC: Organization for Tropical Studies.Wentz, Elizabeth A. and Marco Vinicio Castro Campos 1993. Management of Research Areas at a Biological Field Station, in *Proceedings of the Thirteenth Annual ESRI User Conference,* Redlands, CA: Environmental Systems Research Institute, Inc., Vol. 1, 303-314. |
| 1992 | Castro Campos, Marco Vinicio and Elizabeth A. Bishop (Wentz) 1992. Geographic Information Systems in Tropical Rain Forest Research, in *ARC/INFO Maps 1992*, Redlands, CA: Environmental Systems Research Institute, Inc., 75. |
| 1991 | Hale, Stephen and Elizabeth (Wentz) Bishop 1991.  Managing an Estuarine Data Base with DBMS and a GIS, in *RIGIS News*. |
|  | Smith, Suzanne and Elizabeth (Wentz) Bishop 1991. ARC/INFO and the Mac, *RIGIS News.* |
|  | Bishop (Wentz), Elizabeth A. 1991. The World Prodigy Oil Spill, Rhode Island, in *ARC/INFO Maps 1990,* 58. |
| 1990 | August, Peter, Stephen Hale, Elizabeth A. (Wentz) Bishop and Eric Sheffer 1990. The Contributions of GIS Technology to Environmental Disaster Management - A Case Study of the World Prodigy Oil Spill, Rhode Island, in *Proceedings, Oil Spills Management and Legislative Implications,* edited by Malcolm L. Spaulding and Mark Reed, 366-374. Newport, RI: American Society of Civil Engineers. Reprinted in *Proceedings NCGS '90,* 91-98. Houston, TX. |
| 1989 | Marble, Duane F. and Elizabeth A. Wentz 1989. Standardized Benchmarks for Geographic Information Systems: A Progress Report, in *ARC/INFO User Conference Proceedings:* Redlands, CA: Environmental Systems Research Institute, Inc., 1-10. |

Journal Editor

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| 2010 - 2011 | *Geographical Analysis,* Guest editor for a Special Issue on Water |
| 2006 - 2009 | *Geography Compass,* GIS section editor |

**Editorial Board**

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| 2016-2013 - | *Urban Science**The AAG Review of Books* |
| 2012 - 2017 | *Transactions in GIS* |
| 2009 - 2019 | *International Regional Science Review* |
| 2003 - | *Geographical Analysis,* Associate Editor |

**Journal Reviewer**

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| --- | --- |
| 201520132012 | *Environmental Monitoring and Assessment**Remote Sensing**Water Policy* |
| 2011 | *Landscape and Urban Planning* |
|  | *Environment and Planning B* |
| 2010 | *Water Resources Research* |
| 2009 | *Journal of the American Water Resources Association* |
|  | *Physical Geography* |
| 2008 | *Environmental Management* |
|  | *The Canadian Geographer* |
|  | *Obesity* |
|  | *Land Use Policy* |
|  | *Geoinfomatica* |
|  | *Water Resources Management* |
| 2006 | *Geographical Review* |
|  | *Computers and Geosciences* |
|  | *International Journal of Climatology**Transactions in GIS* |
| 2005 | *Regional Environmental Change* |
|  | *Ecology and Society* |
|  | *Cartography and Geographic Information Science*  |
| 2004 | *Urban Ecosystems* |
| 2003 | *International Journal of Remote Sensing* |
|  | *The Professional Geographer* |
|  | *The Annals of the Association of American Geographers* |
|  | *Computers, Environment, and Urban Systems* |
| 2001 | *Journal of Geographical Systems* |
| 2000 | *Geographical Analysis* |
|  | *IEEE Computer Society Transaction on Knowledge and Data Engineering* |
| 1999 | *International Journal of Geographical Information Science* |

**Invited Panelist**

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| 2021 | STEAM and the Future of Interdisciplinary Research: Engine of Innovation or a Bunch of Hot Air? (Member), Council of Graduate Schools, New OrleansPanel 3: Convergence Global GIScience Education in Global GIS Education (Member) |
| 2016 | Presidential Plenary, Disruptive Forces in Higher Education (Member) The Association of American Geographers, San Francisco CAGIS Specialty Group, Panel on Space Time Analysis (Member), The Association of American Geographers, San Francisco CA |
| 2015 | Research Panel, University Consortium for Geographical Information Science, Symposium, Arlington VA |

**Invited Research Presentations**

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| 2021 | GCSE Resilience Knowledge Learning Collaborative, Global Council for Science and the Environment Symposium |
| 2021 | Designing Resilience Dividends: Energy and Housing Futures, Arizona-Mexico Commission, Energy Committee Meeting, May 2021 |
| 20202019 | How spatial data support knowledge-based decision making for community resilience, North Carolina State's Geospatial ForumKnowledge Exchange for Resilience: A Case for Science to Solutions, Department of Geography, Pennsylvania State University |
| 2018 | Science to Solutions through a Knowledge Exchange, Pacific Ridge to Reef, Hilo, Hawaii |
| 2016 | Impact of Homeowner Association (HOA) Landscaping Guidelines on Residential Water Use, Department of Geography, University of Arizona |
| 2015 | Untangling urban water demand through the lens of GIScience, Association of American Geographers, The Waldo Tobler Distinguished Lecture, Geographic Information Systems and Science Specialty Group |
|  | Scale issues in urban water demand, Portland State University Department of Geography, Portland, Oregon |
| 2013 | Buildings and Trees, Salt River Project Sustainability and Innovation, Phoenix, Arizona |
| 2012 | Urban adaptation to climate change: water and energy in a desert city, Laboratory of Geographic Information Systems (LASIG), École Polytechnique Fédérale de Lausanne, SwitzerlandUrban environmental tradeoffs: water and energy in a desert city, Department of Geography, University of Zurich  |
| 2011 | Urban Remote Sensing Workshop Outcomes, Department of Atmospheric Sciences, University of Alabama and NASA, Huntsville ALUrban Remote Sensing – Theory and Practice, School of Forestry and Environmental Studies, Yale UniversityUrban Remote Sensing – Land use classification, Department of Geography and Planning, University of Saskatchewan, Canada |
| 2010 | Computational spatial analysis techniques for better understanding urban water demand, Department of Geography, Rutgers University |
|  | The Urban Environmental Monitoring Project: 100 cities School of Geographical Sciences and Urban Planning, Arizona State University |
| 2009 | Computational spatial analysis techniques for better understanding urban water demand, Department of Geography, University of California – Los Angeles |
| 2008 | Geographic pattern analysis: an exploration of methodological, applied, and theoretical problems, Department of Geography, University of Texas – Austin |
|  | Geographic pattern analysis: an exploration of methodological, applied, and theoretical problems, School of Human Evolution and Social Change, Arizona State University |
|  | The Urban Environmental Monitoring Project: 100 cities Department of Geography, University of Mexico |
|  | The Urban Environmental Monitoring Project: 100 cities Department of Geography, Florida State University |
| 2007 | Geographic pattern analysis: an exploration of methodological, applied, and theoretical problems Department of Geography, University of Arizona |
| 2006 | Factors Influencing Residential Water Consumption, Decision Center for a Desert City Water Briefing, Arizona State University |
| 2004 | Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys, Cognitive Systems and Behavior Seminar Series, Arizona State University |

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| 2003 | Atmospheric Carbon Dioxide in an Urban Environment Department of Geological Sciences, Arizona State University |
| 2002 | GIS Research Opportunities in Health, Department of Exercise and Wellness, Arizona State University East |
| 2001 | Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys, Department of Geography, University of Colorado – Boulder  |
|  | Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys, Department of Geology, University of Mississippi, Oxford, MS |
|  | Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys, Cognitive Systems and Behavior Seminar Series, Department of Environmental Fluid Dynamics, Arizona State University  |
| 2000 | GIS research and teaching from a North American perspective, Department of Geography, University of Oslo, Norway |
| 1999 | Development of techniques for spatio-temporal data interpolation, Department of Geography, University of Utrecht, The Netherlands |
|  | Shape Analysis and GIS, Department of Geography, University of Utah  |
| 1998 | Shape Analysis and GIS, Department of Fluid Dynamics, Arizona State University November 1998 |
|  | Shape Analysis and GIS, Department of Geography, University of Arizona |
| 1990 | Exploring Pattern in Complex Multidimensional Environmental Datasets, Department of Natural Resources Science, University of Rhode Island  |
|  | GIS and Environmental Disaster Management: *World Prodigy* Oil Spill, Department of Geography, The Ohio State University |
|  | GIS and Environmental Disaster Management: *World Prodigy* Oil Spill, Emergency Response Workshop, Innovative Emergency Management, Inc.  |

Conference Presentations

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| 2022 | Sailor, David J., Elizabeth A. Wentz, Jyothis Anand, Mansour Alhazmi, Edwin Aguilar, Aaron Mehner, Avoided Residential Air Condition Energy Costs Associated with Colling the City: A Case study for Phoenix Arizona USA, 17th Symposium on Society Applications: Policy Research and Practice, AMS 102nd Annual Meeting, Houston Texas |
| 2017 | Stoker, P., Chang, H., Wentz, E., Crow-Miller, B., Bonnette, M., Jehle, G. Building water efficient cities. Association of Collegiate Schools of Planning. Denver, CO.  |
| 2015 | Assessing Tropical Storm Vulnerability in an Inland Desert: A Case Study of the 2014 Flash Flood Events in Phoenix, Arizona, Association of American Geographers, Chicago IL, with Melissa Wagner and Scott Kelley |
| 2013 | Small area urban environmental indicators of energy-water dynamics in a desert city, Association of American Geographers, Los Angeles CA, with Chao Fan |
| 2011 | Space-time interpolation of land cover for Phoenix Arizona, Association of American Geographers, Seattle WA, with Sharolyn Anderson and Donna Peuquet |
|  | Panel in honor of Dr. Duane Marble, Association of American Geographers, Sponsored by AAG, Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group, Esri and University Consortium for Geographic Information Science, organized with May Yuan |
| 2010 | The impact of detailed land-cover categories on urban warming American Society for Photogrammetry and Remote Sensing (ASPRS) Soe Myint (presenter) and Anthony Brazel |
|  | Outdoor water consumption and the impact on the urban heat island in Phoenix Arizona Association of American Geographers |
| 2008 | Geographic pattern analysis: an exploration of applied, methodological, and theoretical problems Association of American Geographers |
|  | Migration, Health, and Environment in the Desert Southwest, Yabiku, Scott T., Jennifer E. Glick, Steven Haas, and Lu Zhu, Population Association of America |
|  | The interface between cartography and remote sensing, Robert Edsall and Aileen Buckley, American Association for Photogrammetry and Remote Sensing (ASPRS)  |
| 2007 | The fractal dimension of land use and land cover in Phoenix, Arizona American Society for Photogrammetry and Remote Sensing (ASPRS) Southwest Region Technical Meeting, Sharolyn Anderson and Claudio Delriux |
| 2006 | Factors Influencing Water Consumption for the City of Phoenix, Arizona, Association of American Geographers  |
| 2004 | Polygon Pattern Analysis based on Type, Orientation, Shape, and Size, GIScience  |
| 2003 | Projected carbon dioxide (CO2) for the year 2020 in Phoenix, Arizona, Association of American Geographers |
| 2002 | Science Model Curriculum and the ASU Curriculum, University Consortium for Geographic Information |
|  | Science Model Curriculum and the ASU Curriculum, Arizona Geographic Information Council Annual Meeting |
| 2002 | GIS Applications for Open Space Planning and Acquisition, APRA Open Space Conference |
| 2001 | Desert Fire History and Effects on the Phoenix, Arizona, Metropolitan Area, IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas, University of Rome La Sapienza. |
|  | Spatial Patterns and Determinants of Carbon Dioxide in an Urban Environment, Association of American Geographers |
| 2000 | Implementing and testing two methods of spatio-temporal data interpolation applied to tracking the movement of monkeys, GIScience  |
| 1999 | The Role of Internships in GIS Education, Association of American Geographers |
|  | Teaching Concepts of Physical Geography with GIS-based tools, Association of American Geographers |
| 1998 | Challenges in GIS Education, Arizona Pacific Coast Geographers Annual Meeting |
|  | Challenges in GIS Education, Arizona Geographic Information Council (AGIC) Annual Meeting August 1998 |
|  | Teaching Concepts of Physical Geography with GIS-based tools, Geographic Alliance GeoFest |
|  | GIS User Interface Design for Applications in Archaeology, Association of American Geographers |
| 1997 | Shape Analysis and GIS, Auto-Carto 13, Seattle, Washington |
|  | Advancing the Analytical Capabilities of GIS, Association of American Geographers |
|  | Student Use of Simplified GIS Interface for Learning Introductory Geomorphology, Association of American Geographers, Cynthia Brewer and JoAnn Vender |
| 1994 | An Approach for Time-Based Analysis of Spatiotemporal Data, Sixth International Symposium on Spatial Data Handling, Donna Peuquet |
|  | Space, Shape, and Time: The shape of things to come, Association of American Geographers |
| 1992 | GIS and Research in Tropical Biology, International Union of Biological Sciences, La Selva, Costa Rica |
| 1990 | GIS and Research in Tropical Biology, Organization of Biological Field Stations, La Selva, Costa Rica |

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|  | GIS and Environmental Disaster Management: *World Prodigy* Oil Spill, National Computer Graphics Association |
|  | GIS and Management of the Narragansett Bay American Society for Photogrammetry and Remote Sensing (ASPRS) New England Chapter  |

# Poster Presentations

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| 2019 | Developing Utility Assistance Community Resilience Networks in Maricopa County ***Wei Luo****, Arizona State Univ., Tempe, AZ; and Q. Zhao, H. Fischer, P. Solis, and E. Wentz,* American Meteorological Society, January 2019 Community Resilience in Maricopa County, Arizona, USA: The Analysis of Indoor Heat-Related Death and Urban Thermal Environment***Qunshan Zhao****, Arizona State Univ., Tempe, AZ; and H. Fischer, W. Luo, P. Solis, and E. Wentz,* American Meteorological Society, January 2019 Mapping Heat Vulnerability in Maricopa County, Arizona, with the HeatMappers Volunteer Science Program, ***Grace Valandra****, Xavier College Preparatory, Phoenix, AZ; and H. Fischer, P. Solis, Q. Zhao, E. Wentz, and C. Higgins,* American Meteorological Society, January 2019 ActivityLog−HeatMappers: A Novel Research Data Collection Tool for Logging Activities, Locations, and Environment Data, ***Ziqi Li****, Arizona State Univ., Tempe, AZ; and Q. Zhao, H. Fischer, P. Solis, and E. Wentz,* American Meteorological Society, January 2019 Developing Utility Assistance Community Resilience Networks in Maricopa County, ***Wei Luo****, Arizona State Univ., Tempe, AZ; and Q. Zhao, H. Fischer, P. Solis, and E. Wentz,* American Meteorological Society, January 2019  |
| 2014 | Hurricane Sandy through the Lens of Ian McHarg, Association of Collegiate Schools of Planning , October 2014, with Melissa Wagner |
|  | Investigating the Impact of Homeowner Association Landscape Guidelines on Residential Water Use, CAP LTER, with Sandra Rode, Elizabeth A. Wentz, Xiaoxiao Li, Billie L. Turner II |
| 2011 | Classifying Urban Land cover using Spatial Weights: A Comparison of Discriminant Analysis and Markov Random Fields, American Geophysical Union annual meeting, December 2011, with Yang Song |
| 2008 | The Use of GIS as a Decision-Support Tool by Water Managers in Phoenix, Arizona, Arizona State University CAP – LTER, with J. Howard, K. Larson, and D. White |
|  | Spatial Extrapolation Mapping Based on Aggregated Data: Countywide Extrapolation of Phoenix Water Use Data Arizona State University CAP – LTER, with S. J. Lee |
| 2008 | Temporal Geographic Information Systems (TGIS) to Forecast Future Water Consumption in Phoenix, Arizona Arizona State University CAP – LTER, with S.J. Lee, and P. Gober |
| 2007 | Scale; Population; and Spatial Analysis: A Methodological Investigation 15th ACM International Symposium on Advances in Geographic Information Systems, with Darren Ruddell |
|  | Structural Analysis of Land Use Pattern in Delhi India Symposium on Remote Sensing of Environmental Sustainable Development Through Global Earth Observations San Jose, Costa Rica |
| 2006 | Defining pattern for data mining and spatial data analysis, Auto-carto |
|  | A spatial decision support tool for regional water managers: scenarios for predicting residential water consumption Decision Support Systems Symposium |
|  | Classifying land cover in New Delhi India using ASTER imagery, Annual Meeting of the Association of American Geographers |

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|  | Factors Influencing Water Consumption for the City of Phoenix, Arizona , Arizona State University CAP-LTER  |
| 2005 | Expert system approach for classifying land cover in New Delhi India using ASTER imagery 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and 5th International Symposium Remote Sensing of Urban Areas (URS 2005) |
| 2002 | Desert Fire History and Effects on the Phoenix, Arizona, Metropolitan Area Arizona State University CAP-LTER |
| 2000 | Use of geographic information systems for extracting peaks and canyons, Annual meeting of the Association of American Geographers |
| 1998 | Progress toward Integrating Spatial Technologies for Urban Infrastructure Management, Arizona Geographic Information Council Annual Conference, Arizona State University |

**International and National Service Activities**

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| 2022 – 2024 | Council of Graduate Schools, Advancement Advisory Committee |
| 2021 - 2024 | Social Science Research Council (SSRC), NSF ADVANCE Advisory Board |
| 2015 - | Proposal reviewer for Austrian Science Fund |
| 2014-2015 | Technical Committee for the Joint Urban Remote Sensing Event 2015 (JURSE) in Lausanne Switzerland |
| 2014-2017 | Executive Committee of the University Consortium for Geographic Information Science (Present-Elect, President, Past-President) |
| 2013 -  | Board of Trustees, Marble Fund, Association of American Geographers (AAG) |
| 2012 - 2013 | Scientific committee, Joint Workshop on Remote Sensing and Data Fusion over Urban Areas (URBAN) and the Workshop on Remote Sensing of Urban and Suburban Areas' (URS), Sao Paulo, Brazil, 2013 |
| 2012 - 2015 | National council member, Chair of the National Councilors (2013-2015), Association of American Geographers (AAG) |
| 2012 | Scientific review committee, Open Geospatial Research and Education Symposium, 2012, Yverdon-les-Bains, Switzerland |
| 2011 | Program committee, Space-time Symposium, Association of American Geographers (AAG) |
|  | Proposal review, Israeli Science Foundation |
| 2010 | Proposal review, Water Resources Research Institute |
|  | Proposal review, National Institutes of Health (NIH) |
| 2010 - 2011 | Program committee, Joint Urban Remote Sensing Event (JURSE), Munich, Germany |
| 2009 | Program review, Department of Geography, Rowan University |
| 2009 - 2011 | Regional director, Southwest Region of the American Society of Photogrammetry and Remote Sensing (ASPRS) |
| 2008 | Nominating committee, Association of American Geographers (AAG) |
| 2008 - | Program committee, Association for Computing Machinery, International Symposium on Advances in Geographic Information Systems (SIG SPATIAL) |
| 2008 - 2013 | Chair of the review committee, Marble-Boyle Undergraduate Award, Association of American Geographers |
| 2008 | Student chapter liaison, American Society of Photogrammetry and Remote Sensing |
| 2007 - 2008 | Conference planning committee, Auto-Carto |
| 2005 - 2008 | Board member, Cartography and Geographic Information Society |
| 2005 - 2008 | Vice chair, Chair, Past chair, Association of American Geographers Geographic Information Systems and Science Specialty Group |
| 2004 - 2006 | GIS Education Services, Board of Directors |
| 2004 - 2005 | Secretary, University Consortium for Geographic Information Science |
| 2003 - | Proposal reviewer, National Science Foundation (NSF) |
| 1999 | Board member, Board member for *Discovering Geographic* *Knowledge in Data-Rich Environments*, NCGIA-Varenius Specialist Meeting |
| 1998 - 2008 | Member, GIS Core Curriculum Group, University Consortium for Geographic Information Science (UCGIS) |
| 1998 | Reviewer for Thirty-Second Annual Hawai'i International, Conference on System Sciences Minitrack on "GIS and Decision Support" |
| 1993 - 1994 | Graduate student representative, Association of American Geographers, Geographic Information Systems Specialty Group |

University Service

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| 2022 - 2023 | Global Futures Laboratory, Task Force on Designing for Impacts and Outcomes |
| 2021-20222017 - 2020 | ASU search committee member* Watts College of Public Service and Community Solutions
* Barrett, The Honors College at Arizona State University

ASU representative, Social Science Research Council (SSRC) |
| 2016 - 2018 | Chair, PLuS Alliance fellows, ASU |
| 2014 -2015  | Member, College of Liberal Arts and Sciences Dean’s Advisory Council |
| 2014 - 2016 | Member, ASU Bicycle Advisory Committee |
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| 20142010 - 2011 | Committee member, Search committee for the Dean of the College of Liberal Arts and Sciences, Arizona State UniversityInterim Director, Master of Advanced Study in Geographic Information Systems, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2007 - 2014 | Undergraduate advising, Decision Center for a Desert City |
| 2008 - | Executive Committee, GeoDa Center, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2009 - 2010 | Executive Committee, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2008 | Proposal Reviewer, Institute for Social Science Research, College of Liberal Arts and Sciences, Arizona State University |
| 2007 - 2008 | Search Committee Member, University Library Geospatial Data Analyst, Arizona State University |
| 2007 -  | Executive Committee, Information Science Certificate, Arizona State University |
| 2007 - 2011 | Faculty Mentor, Prof. Kelli Larson, Arizona State University |
| 2006 - 2007 | Director, Transdisciplinary Center for GIScience, School of Geographical Sciences, Arizona State University |
| 2006 - | Director, Geographic Information Science Graduate Certificate, Arizona State University |
| 2005 - 2006 | Faculty Mentor, Prof. Markus Janssen, Arizona State University |
| 2004 - 2009 | Executive Committee, Decision Center for a Desert City, Arizona State University |
| 2004 - 2009 | Faculty Sponsor, Supporting Women in Geography, School of Geographical Sciences and Urban Planning, Arizona State University |
| 2002 - | Executive Committee, Geographic Information Science Graduate Certificate, Arizona State University |
| 1988 - 1989 | Graduate Student Representative, Department of Geography, The Ohio State University |

**Graduate Student Committee Chair**

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| --- | --- |
| In progress2020 | Elisha Charley, PhD, co-chair with Deirdre PfeifferJonathan Davis, PhD, co-chair with David PijawkaMelissa Wagner, PhD, co-chair with Randall Cerveny |
| 201820172014 | Lindsey Conrow, PhDQunshan Zhao, PhD Heather Fisher, PhDMelinda Shimizu, PhD |
| 2013 | Yun Ouyang, PhD. School of Sustainability, co-chair with Benjamin Ruddell |
|  | Joanna Merson, MAStephanie Deitrick, PhD |
| 2012 | David Nelson, MA |
| 2011 | Won Kyung Kim, PhD  |
| 2010 | Yang Song, MA |
|  | Angela Wills, MA |
|  | Scott Brown, MA  |
| 2009 | Darren Ruddell, PhD Jillian Elder, MA  |
| 2008 | Jamie Patterson, MA  |
|  | Jason Howard, MA  |
| 2007 | Colleen Garrity, PhD co-chair with Randall Cerveny |
|  | Shea Lemar, MA  |
|  | Andrew Burnett, MA  |
| 2004 | Emily Atwood, MA  |
| 2003 | Jennifer McCulley, GIS graduate certificate |
| 2002 | Sharolyn Anderson, PhD |
|  | Karen Blevins, MA |
|  | Seth Paine, MA  |
| 2001 | Corene Matayas, MA, co-chair with Randall Cerveny |

**Graduate Student Committee Member**

|  |  |
| --- | --- |
| In progress | Oscar Lopez, PhD, Michael Kuby chairRachel Beard, PhD, Biomedical Informatics, Matthew Scotch chair |
| 201620152014 | Lauren Gentile, PhD, Environmental Social Science, Robert Bolin chair Scott Kelley, PhD, Michael Kuby chairJenna Nash, MUEP, Deirdre PfeifferLiyuan Liu, MUEP, Aaron Golub chairJennifer Carlson, MA, Janet Franklin chair |
| 20132012 | Myung-Hwa Hwang, PhD, Luc Anselin chairElyssa Gutbrod, PhD, Ronald Dorn chairYin Liu, PhD, Alan Murray chair |
| 2011 | Melissa Wagner, MA, Randall Cerveny and Soe Myint co-chairsAngelika Kizior, MUEP, Aaron Golub chair |
| 2010 | Brent Hedquist, PhD, Anthony Brazel chair |
|  | Jong-Geun Kim, PhD, Michael Kuby chair |
| 2009 | Nayoung Ryu, MA, Breandan O hUallachain chair |
| 2008 | Robert Pahle, PhD Architecture, Feliz Ozel chair |
|  | Sarah Boyle, PhD Biology, Andrew Smith chair |
|  | Jason Kelley, MA, Michael Kuby chair |
|  | Jared Underwood, PhD, Biology, Leah Gerber chair |
| 2007 | Carol Atkinson-Palombo, PhD, Patricia Gober chair |
|  | Patrick Whelley, MA, Geological Sciences, Ronald Greeley chair |
|  | Brenda Koerner, PhD Plant Biology, Jeff Klopatek chair |
|  | Brandon Vogt, PhD, Robert Edsall chair |
|  | Seow Lim, PhD, Michael Kuby chair |
| 2005 | Stephanie Dietrick, MA, Robert Edsall chair |
| 2004 | Timothy Leslie, MA, Breandan O hUallachain chair |
| 2003 | Jana Heisler, MS Plant Biology, John Briggs chair |
| 2002 | Sean Whitcom, MS Plant Biology, Jean Stutz chair |
|  | Santiago Lopez, MS, Patricia Fall chair |
| 2000 | Antonio Matamoros, MA, Rodrigo Sierra chair |
|  | Mary Richardson, MA, Interdisciplinary Studies, Andrew Smith chair |
|  | Michael Henze, MA, Ronald Dorn chair |
|  | Brandon Vogt, MA, Ronald Dorn chair |
| 1999 | Steven Gordon, PhD, Ronald Dorn chair |
|  | Curtis Sommer, MA, Michael Kuby chair |
| 1998 | Jordon Chamberlain, MA, Rodrigo Sierra chair |
|  | Charlene Howard McDonald, MA, Elizabeth Burns chair |

**Undergraduate Honor’s Thesis Committee**

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| --- | --- |
| 2015 | Jessica Jia, co-chair with Kelli Larson, honors thesis |
| 2011 | Joshua Randall, Community of Undergraduate Research Scholars (COURS)Michael Catsos, committee member, honors thesis |
|  | Emma Harrison, committee member, honors thesis |
| 2003 | Robert Murray, chair, honors thesis |

**Memberships**

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| 2016 - | American Association for the Advancement of Science (AAAS) |
| 2011 - 2010 -  | American Geophysical Union (AGU)American Planning Association (APA) |
| 2007 - | American Society for Photogrammetry and Remote Sensing (ASPRS) |
| 1998 -  | Association of Pacific Coast Geographers (APCG) |
| 1997 – 2009 | American Congress on Surveying and Mapping (ACSM) |
| 1997 – 2009 | Cartography and Geographic Information Science Society (CaGIS) |
| 1993 - | Association of American Geographers (AAG) |