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EDUCATION

- 2013 Doctor of Philosophy, Geography, May 2013
School of Geographical Sciences and Urban Planning Arizona State University
Dissertation Title: *Implicit Visualization as Usable Science: Visualizing
Uncertainty as Decision Outcomes*
Advisor: Elizabeth Wentz
- 2006 Master of Arts, Geography, May 2006
School of Geographical Sciences and Urban Planning Arizona State University
Thesis Title: *The Influence of Uncertainty Visualization on Decision Making*
Advisor: Robert Edsall
- 1996 Bachelor of Science, Mathematics, December 1996
Department of Mathematics Santa Clara University, Santa Clara, CA

PROFESSIONAL EXPERIENCE

- 2011-Current Director Master of Advanced Study in Geographic Information Systems
(MASGIS) and Lecturer, School of Geographical Sciences and Urban Planning,
Arizona State University, Tempe, Arizona
- 2014-Current Enterprise Data and Analytics Group, Information Technology Department,
City of Tempe, Arizona
- 2013-2014 GIS Consultant, Information Technology Department, City of Tempe, Arizona
- 2002-2013 Transportation Planning & GIS Manager, TASK Engineering Phoenix, Arizona
- 2008-2009 Research Associate, Decision Center for a Desert City, Arizona State
University, Tempe, AZ. Dr. Patricia Gober, School of Geographical Sciences
and Urban Planning/Decision Center for a Desert City
- 2004-2007 Research Associate, School of Geographical Sciences and Urban Planning,
Arizona State University

REFEREED PUBLICATIONS

- 2016 Mason, J.S., A. Klippel, S. Bleisch, A. Slingsby and **S. Deitrick**. Approaching spatial uncertainty visualization to support reasoning and decision-making. *Spatial Cognition and Computation*. 16 (2): 97 - 105
- 2015 Deitrick, S., and E.A. Wentz. Developing Implicit Uncertainty Visualization Methods Motivated by Theories in Decision Science. *Annals of the Association of American Geographers*, 105 (3): p. 531-551
- 2010 Gober, P., C. Kirkwood, R. Balling, A. Ellis, and S. Deitrick. 2010. Water planning under climatic uncertainty in Phoenix: Why we need a new paradigm. *Annals of the Association of American Geographers*, 100 (2): p. 356-372

REFEREED EDITED BOOK CHAPTERS

- 2012 **Deitrick, S.** 2012. Uncertain Decisions and Continuous Spaces: Outcomes Spaces and Uncertainty Visualization. Edited by K. Kriz et al. (eds.), *Understanding Different Geographies, Lecture Notes in Geoinformation and Cartography*: p. 117-134. Springer-Verlag Berlin Heidelberg.
- 2008 **Deitrick, S.** and R. Edsall. 2008. Making uncertainty usable: approaches for visualizing uncertainty information. Edited by M. Dodge and M. Turner, *Geographic Visualization: Concepts, Tools, and Applications*: p. 277-291. Wiley & Sons
- 2006 **Deitrick, S.** and R. Edsall. 2006. The Influence of Uncertainty Visualization on Decision Making: An Empirical Evaluation. Edited by A. Riedl, W. Kainz and G. Elmes, *Progress in Spatial Data Handling: Twelfth International Symposium on Spatial Data Handling*: p. 719-738. Springer Berlin

GRANTS

- 2016-2017 Gila River Indian Community Grant – ADA Transit Pilot: Comparing the Use of Beacons and GIS to Support Wayfinding and Audible Schedules for the Visually Impaired (\$30,000)
- July 2012 Brazil National Institute for Space Research (INPE) Travel Grant for Vespucci Initiative (\$400)
- March 2012 Visualizing uncertain science for environmental decision making support, CAP LTER Research Grant (\$3,750)

Summer 2008	A pilot investigation of scenario-based visualization of uncertain geographic data and models, Co-PI, DCDC Decision Center for a Desert City Research Grant, (\$20,450)
November 2007	Graduate Student Association Travel Grant, Arizona State University (\$500)
October 2007	Division of Graduate Studies Travel Grant, Arizona State University (\$350)
2006 – 2007	University Graduate Scholars Grant, Arizona State University
2006 – 2007	School of Geographical Sciences and Urban Planning International Travel Grant, Arizona State University (\$2400 and \$3400)
2006	Matthew G. Bailey Fieldwork Funding. An Evaluation of the Influence of Experience on Information Control and User Comprehension of Uncertainty Visualization (\$1,000)
Spring 2006	Graduate Student Association Travel Grant, Arizona State University (\$500)
Spring 2006	School of Geographical Sciences and Urban Planning Travel Grant, Arizona State University (\$200)

TEACHING EXPERIENCE (INSTRUCTOR OF RECORD)

School of Geographical Sciences and Urban Planning, Arizona State University, Arizona

Fall 2014	Statistics for Geographers (GIS 470)
Fall 2010-2016	Introduction to Geographic Information Systems (GPH 601/GIS 601)
Fall 2010-2016	Intermediate Geographic Information Systems (GPH 602/GIS 602)
Fall 2015-2016	Spatial Statistics and Modeling (GIS 603 co-taught with Dr. Robert Balling)
Fall 2012-2015	Implementation in Corporate and Public Sectors (GPH 604/GIS 604)
Spring 2017	GIS Technologies (GIS 630)
Summer 2010-2014	Geographic Information Science II (GPH 473/GPH 598)
Spring 2014	GIS and Planning Studio II (PUP 598)
Spring 2011-2015	GIS and Planning Studio (PUP 576)

Spring 2008-2016, Summer 2010 Introduction to Cartography and Georepresentation (GPH 371/GIS 470)

Fall 2010-2013, Spring 2010-2013 GIS and Planning (PUP 598/PUP 570)

Fall 2009-2014 Quantitative Methods for Geographers (GCU 495)

Summer 2010-2013 Geographic Information Science I (GPH 373)

Winter 2009, Spring 2010 Geographic Information Technologies (GPH 370 - online)

Fall 2007, Summer 2009, Spring 2010 Geographic Information Technologies (GPH 370)

Summer 2010 GIS and Planning (PUP 494/PUP598)

Phoenix Community College, Phoenix, Arizona

2006-2007 Intro to Geospatial Technology Environmental Science (Bio 119)

CURRICULUM AND PROGRAM DEVELOPMENT

2014-2016 Masters in GeoDesign (member of degree proposal and development team)

2010-2011 GIS Planning Studio and GIS for Planners Core Course Development

WORKSHOPS (TAUGHT)

January 30-31, 2012 Place Makers Collaboratory: GIS for Land Development. School of Geographical Sciences and Urban Planning, Arizona State University

May 7-11, 2012 Institute for Social Science Research Methods Workshop: Geographic Information Systems, Arizona State University

UNDERGRADUATE ADVISING

2012 Joshua Randall, Honors Thesis Reader, Identifying Communities of Interest in Arizona Through a Multivariate Factor Analysis of 2000 Census Data

2010 Joshua Randall, Geography and Politics. (Honors Project)

2009 Meagan Rubel, Assessing Musculoskeletal Markers Characteristic of Military Activities: Analysis of Sacrificial Victims from Teotihuacan (Honors Project)

INVITED TALKS AND PANEL SESSIONS

- 2016 **Deitrick, S.** Oh the Humanity!...GIS in Human Services. Maricopa County GIS Day. November 15, 2016
- 2016 **Deitrick, S.** Panel Session. Implementing Service Learning in Geoinformation Technology Courses. UCGIS 2016 Symposium. Scottsdale, Arizona. May 23 – 26, 2016
- 2015 **Deitrick, S.** Panel Session. Cartographic Perspectives Special Session – Cartography in the Classroom: A Changing Landscape. North American Cartographic Information Society (NACIS) Annual Conference. Minneapolis, Minnesota. October 14-17, 2015
- 2015 **Deitrick, S.** Uncertainty in Context. Preparing Future Faculty Program. Geography Department. University of Tennessee, Knoxville. September 25, 2015
- 2015 **Deitrick, S.** and D. DiBiase. Teaching Innovation with Open Data and Civic Apps. ESRI Education Summit. San Diego, California. July 20-24, 2015
- 2014 **Deitrick, S.** Chaos management in university research and evolving teaching pedagogies for GEOINT Learners. Foreword: Focus on Science, Technology and Analytics. United States Geospatial Intelligence Foundation (GEOINT) Symposium. Tampa, Florida. April 14-17, 2014
- 2008 **Deitrick, S.** Affective Representation: The Art of Uncertainty. International Cartographic Association Symposium. Art and Cartography – Cartography and Art. Vienna, Austria. January 31 – February 2, 2008
- 2006 **Deitrick, S.** The Influence of Uncertainty Visualization on Decision Making. Workshop on Geographic Visualization Across the Social Sciences: State of the Art Review. Manchester, England. June 12-13, 2006

PRESENTATIONS

- 2017 Mitra, A., S. Lewis and **S. Deitrick.** Change Management for the ArcGIS Platform for Local Government. ESRI International User Conference, San Diego, California. July 10 – July 14, 2017
- 2017 Lewis, S. and **S. Deitrick.** Effective Address Design and Management in a Municipal Enterprise. ESRI International User Conference, San Diego, California. July 10 – July 14, 2017

- 2016 **Deitrick, S.**, S. Lewis and A. Mitra. Access Tempe: Demystifying Accessible Web Maps. AGIC Symposium, Prescott, Arizona. September 21 – September 23, 2016
- 2016 Mitra, A., S. Lewis and **S. Deitrick**. Developing Simple Applications for Complex Workflows. ESRI International User Conference, San Diego, California. June 27 – July 1, 2016
- 2016 Lewis, S., A. Mitra, and **S. Deitrick**. Developing Simple Applications for Complex Workflows. ESRI Southwest User Conference, Phoenix, AZ. January 19-21, 2016
- 2015 **Deitrick, S.** GeoDesign as a Framework for User-Centered Uncertainty Visualization. Association of American Geographers Annual Conference. Chicago, Illinois. April 21-25, 2015
- 2015 Lewis, S, A. Mitra and **S. Deitrick**. Analyzing Local Food Sources with ArcGIS. ESRI User Conference. San Diego, California. July 20-24, 2015
- 2014 **Deitrick, S** and J. Merson. Conceptualization and Representation of Uncertainty for Science-Based Policymaking. GIScience. Vienna, Austria. September 23-26, 2014
- 2014 **Deitrick, S.** Exploring the relationship between uncertainty and policy decisions. Association of American Geographers Annual Conference. Tampa, Florida. April 8-12, 2014
- 2012 **Deitrick, S.** Evaluating implicit visualization of geographic uncertainty for public policy decision support. AutoCarto, Columbus, Ohio. September 2012
- 2012 Randall, Joshua, J. Steen, and **S. Deitrick**. Identifying Communities of Interest in Arizona Through a Multivariate Factor Analysis of 2000 Census Data. Association of American Geographers Annual Conference. New York, New York. February 24-February 28, 2012
- 2011 **Deitrick, S.** The Geography of Uncertainty: Outcomes Spaces and Uncertainty Visualization. Understanding Different Geographies. International Cartographic Association. Puchberg am Schneeberg, Austria. January 31-February 3, 2011
- 2010 **Deitrick, S.** Imagery and misinterpretation in mass media communication of science. Representing Reality: Imagery in the Cognitive, Social and Natural Sciences, Buffalo, NY. May 12-15, 2010
- 2009 **Deitrick, S.** Maps, climate change, and mediated knowledge: mass media and (un)certain science. International Cartographic Conference. Santiago, Chile. November 15-21, 2009 (presented by Robert Edsall)

- 2009 Edsall, R. and **S. Deitrick**. Case Studies Demonstrating the Utility of Unconventional Designs for Geographic Problem-Solving. International Cartographic Conference. Santiago, Chile. November 15-21, 2009
- 2009 **Deitrick, S.** Maps, climate change, and mediated knowledge: mass media and (un)certain science. Association of American Geographers Annual Conference. Las Vegas, NV. March 22-28, 2009
- 2008 **Deitrick, S.** The influence of expertise on decision making under uncertainty. Association of American Geographers Annual Conference. Boston, MA. April 14-20, 2008
- 2007 **Deitrick, S.** Altering map quality for uncertainty representation. Association of American Geographers Annual Conference. San Francisco, CA. April 17-21, 2007
- 2007 **Deitrick, S.** What am I supposed to do with this? or Does expertise influence decision made with representation of uncertain outcomes? 8th Annual GELSS (Graduates in the Earth, Life, and Social Science) Symposium. Arizona State University, Tempe, Arizona. February 9, 2007
- 2006 **Deitrick, S., R. Edsall, and R. Aspinall.** An experiment to assess influence of uncertainty representations on decision-making. Illustrated paper presentation. Association of American Geographers Annual Conference. Chicago, IL. March 7 – 11, 2006
- 2005 **Deitrick, S., B. Trapido-Lurie, R. Edsall, and R. Aspinall.** Mapping Metropolitan Phoenix: Changing Population, Economy and Lifestyles. Poster presentation. Stephanie Deitrick, Barbara Trapido-Lurie, Robert Edsall, Richard Aspinall. North American Cartographic Association Annual Conference. Salt Lake City, Utah. October 12 – 15, 2005
- 2005 **Deitrick, S., B. Trapido-Lurie, R. Edsall, and R. Aspinall.** Selections from a Contemporary Atlas of Arizona. Poster presentation. Association of American Geographers Annual Conference. Denver, Colorado. April 5 – 9, 2005
- 2005 **Deitrick, S., B. Trapido-Lurie, R. Edsall, and R. Aspinall.** Contemporary Atlas of Arizona. Graduates in Earth, Life, and Social Sciences Graduate Research Symposium. Tempe, Arizona. February 11, 2005

WORKSHOPS (ATTENDED)

- September 23, 2014 Workshop on Visually-Supported Reasoning with Uncertainty, GIScience Conference Vienna Austria, September 23-26, 2014

- July 1-7, 2012 The Vespucci Summer Institute on Geographic Information Science. Spatial Information in Science and Society. Fiesole, Italy
- March 6-7, 2012 Responding to Change and Uncertainty in the Western United States: Managing Risk in Decision Making. Sonoran Institute, Phoenix, AZ
- June 11-15, 2007 The Vespucci Summer Institute on Geographic Information Science. Geospatial Ontology. Fiesole, Italy

PROJECTS

- 2017 Denecour, N., **S. Deitrick**, and J. Davis. Trafficking Visa (T Visa) Mapping Project, Immigrant Rights Clinic at the New Haven Legal Assistance Association

AWARDS

- 2017 ESRI Special Achievement in GIS Award
- March 2011 Recipient ASU Graduate and Professional Student Association (GPSA) Graduate Student Teaching Excellence Award
- April 2009 Saarinen Student Paper Award, First Place, Environmental Perception & Behavioral Geography Specialty Group, Association of American Geographers
- October 2007 Association of American Geographers GIS Specialty Group Student Paper Competition Finalist
- April 2007 Association of American Geographers-International Geographic Information Fund Student Paper Competition (First Place) (\$200)

PROFESSIONAL DEVELOPMENT

- 2015 Invited Participant. Preparing Future Faculty Program. Geography Department. University of Tennessee, Knoxville. September 24-26, 2015

INTERNATIONAL SERVICE

- 2014-2016 Organizing Committee. Special Issue: Visually-Supported Reasoning with Uncertainty in Spatial Cognition and Computation: An Interdisciplinary Journal
- 2014 Organizing Committee. Workshop on Visually-Supported Reasoning with Uncertainty, GIScience Conference Vienna Austria, September 23-26, 2014

2013 Steering Committee, Visually Supported Reasoning with Uncertainty, Conference on Spatial Information Theory (COSIT), September 2, 2013, Scarborough, UK

2011-Current International Journal of Geographic Information Science, Article Reviewer

NATIONAL SERVICE

2017 Reviewer, GIST Body of Knowledge, Second Edition

2014-2016 Cartographic Perspectives, Article Reviewer

2013-Current Academic Director, Cartography Specialty Group, Association of American Geographers

2013-2017 Masters Thesis Grant Reviewer
2014-2017 Honors Student Paper Competition Reviewer
2015 National Geographic Student Map Competition Organizer
2015-2017 Honors Student Paper Competition Organizer

2016-Current Vice President, Environmental Perception and Behavioral Geography Group, Association of American Geographers

2017 Saarinen Student Paper Competition Reviewer
2017 EPBG Travel Grant Reviewer

2015-2016 Member at Large, Environmental Perception and Behavioral Geography Group, Association of American Geographers

2016 Saarinen Student Paper Competition Reviewer
2016 EPBG Travel Grant Reviewer

2013-2015 Academic Director, Environmental Perception and Behavioral Geography (EPBG) Group, Association of American Geographers

2014-2015 Saarinen Student Paper Competition Reviewer
2014-2015 EPBG Travel Grant Reviewer

2013-Current GISP Application Reviewer, GIS Certification Institute

2008 Graduate Student Affinity Group Grant Peer Reviewer, Field Award, Association of American Geographers

2007-2008 Director, Graduate Student Affinity Group, Association of American Geographers

UNIVERSITY SERVICE

2017	External Program Reviewer for the Masters in Geoscience GIS&T Degree (with Oil and Gas specialization), College of Geosciences, Texas A&M University, College Station, Texas
2015	GIS STEM Summer Camp Pilot (Development and Implementation)
2013-2015	Arizona State University representative on the Arizona State Board of Geographic and Historic Names
2013	Master of Advanced Study in Geographic Information Systems and Masters of Urban and Environmental Planning Representative for 3+2 Program Recruiting Visit for Chinese Universities
2010-2013	Graduate and Professional Student Association (GPSA) Grant Peer Reviewer and Jump Start Grant Program Peer Reviewer
2010-Current	Computer Committee, School of Geographical Sciences and Urban Planning
2006-2007	Graduate and Professional Student Association (GPSA) Grant Peer Reviewer
2007	Graduate Student Search Committee, Director, School of Geographical Sciences and Urban Planning
2006	School of Geographical Sciences and Urban Planning Colloquium Committee (student led)

PROFESSIONAL ASSOCIATIONS

2004 – Present	Association of American Geographers
2004 – Present	Cartography and Geographic Information Society (CaGIS)
2004 – Present	Gamma Theta Epsilon
2014 – Current	North American Cartographic Information Society (NACIS)