

PROFESSIONAL EXPERIENCE

Research Assistant (Career NTTF) - Cartographic Developer, InfoGraphics Lab, Department of Geography, University of Oregon	July 2017 - Current
Graduate Research Assistant School of Geography and Urban Planning, Arizona State University Tempe, Arizona Supervisor: Dr. Elizabeth A. Wentz	Aug 2010 – May 2011, Aug 2016 – May 2017
Summer Employee “Internet Geographer” Latitude Geographics, Victoria, British Columbia Developed product samples, documentation, demonstrations, and instructional videos.	May – Jul 2010, 2011, 2012
Research Fellowship Awardee MicroGIS Foundation for Spatial Analysis, Lausanne, Switzerland Produced prototype interactive webatlas for census data display.	Sep 2009 – Dec 2009
Product Release Engineer Intern Esri, Redlands, California Conducted testing of development products prior to their release.	May 2009 – Aug 2009
Geomatics Technologist GIS Technician Co-op Student Royal Canadian Mounted Police E-Division, Informatics Branch. Vancouver, B.C., Canada Provided GIS and mapping support services to the operational and administrative units.	Sep 2007 – Apr 2008 May 2006 – Aug 2006
GIS Co-op Student BC Oil and Gas Commission, Victoria, B.C., Canada Maintained and updated digital data sets and advised staff on limitations and suitable uses of data and analyses.	Jan 2006 – Apr 2006
Research Co-op Student Office of the Fire Commissioner, Ministry of Public Safety and Solicitor General & The Union of BC Municipalities, Victoria, B.C., Canada Designed and maintained a geodatabase of interface fires, researched best practices, and presented findings in a subsequently published report.	May 2005 – Sep 2005

PROFESSIONAL DEVELOPMENT

UO Online Presents: Best Practices for Video Production	Feb 2020
Advanced spatial analysis and data science capabilities in ArcGIS Pro Workshop	Oct 2019
Geospatial Data Visualization with d3 Workshop	Oct 2019
Workplace Harassment Training	Jun 2019
Edward Tufte Presenting Data and Information	May 2019
ArcGIS Online Workshop (UO Library)	May 2019

Diversity Action Plan Talks Lunch Session II “Tools for Building an Inclusive Environment”	Feb 2019
Huffman Live streaming (Feb 2019)	Feb 2019
NFSP Session 4: Successfully Navigating Challenges in the Classroom	Jan 2019
Esri Workshop on ArcGIS Maps for Adobe Creative Cloud	Oct 2018
Esri Massive Online Open Course: Cartography using ArcGIS Pro	Oct 2018
CMET Canvas training	Sept 2018
Digital Scholarship Services Omeka/Culturescape Training	Aug 2018
UO Connected, UO Committed: Integrative Practices for Student Success	May 2018
UO Workshop: Faculty Organizing for Success - Teaching Excellence	Jan 2018
UO Libraries Gephi Workshop with Professor Ryan Cordell	Nov 2018
UO Workshop: Leadership in Student Supervision	Oct 2017
ASU Online Teacher Training	Sep 2015
ASU Preparing Future Faculty Program	Aug 2013 – May 2014
ASU's Graduate Women's Association Professional Presentation Strategies	Oct 2013
Arizona Geographic Information Council Symposium	Sep 2013

SERVICE

WORKSHOPS AND GUEST LECTURES

UO GIS Day Open house – Event organizer (10+ presenters)	Oct 2019
Esri Advanced GIS/R Workshop – Event organizer	Oct 2019
UOregon SAIL Program - Cartography Workshop	Jul 2018, 2019
University of Oregon Invited Guest Lectures	
ENVS 410/510: Environmental Data Management and Visualization – “Color use”	Mar 2020
ENG 410/510: Stories and Maps - “Storymapping”	Feb 2020
GEOG 4/593: Advance Cartography – “Typography”	Feb 2020
ENG 250: Literature and Digital Culture – “”	Nov 2019
GEOG 181: Our Digital Earth – “Digital Mapping”	Oct 2019
GEOG 608 - “Designing Academic Posters”	Jan 2018
ENVS 410/510: “Environmental Data Management and Visualization”	Mar, Nov 2018
ENG 250: Literature and Digital Culture – “Literature Mapping Exercise”	Jan 2018
GEOG 181: Our Digital Earth – “Getting Involved in GIScience”	Nov 2017
UO Digital Scholarship Sampler Workshop – Mapping in Digital Humanities	
MapTime Eugene Workshop - Visualize point data using Google My Maps	Nov 2017
Represented SDST major at Undergraduate Majors Fair	Sept 2017
GIS Lab Demonstration Organizer and Volunteer	
ASU Night of the Open Door	Mar 2012, Feb 2013
Brophy College Preparatory, Phoenix, Arizona	Mar 2012
Arizona State Level National Geography Bee	Apr 2011

Workshop Presenter ASU GISER Integrative Society and Environment Research "Hidden gems of ArcGIS: Using ArcGIS Publisher and ArcScene"	Dec 2011
Arizona State University Invited Guest Lecture ASU Dance 294 - Hybrid Action: Physical Intelligence in Digital Culture "Developing an interactive boid (cellular automaton) system"	Apr 2011

COMMITTEES, PANELS, AND, OTHER SERVICE

UO Geography Department Service Internship coordinator	Feb 2020 – Current
IT committee	Aug 2017 – Current
Diversity committee member	Mar 2018 – Feb 2020
MapTime Eugene - Organizing member	Aug 2017 - Current
Association of American Geographers GeoMentor Registered as volunteer to work with educators and students learn to use GIS in the classroom	Current
Journal Reviewer Spatial Cognition and Computation: An Interdisciplinary Journal Cartographic Perspectives	Jun 2014 – 2015
Panel Member NACIS Annual Meeting Cartography in the Classroom: A Changing Landscape	Oct 2015
Undergraduate Student Honors Enrichment Project Supervisor Ido Gilboa, GIS 205; Phillip Pierce, GIS 205	Oct 2015; Dec 2015
Hearing Board Member ASU University Hearing Board Appellate for alleged student violations of the Student Code of Conduct. Advise sanctions to the University Provost.	Apr 2014 – May 2015
Graduate Student Representative, ASU University Graduate Council Advisory council to the Executive Provost for Academic Affairs and Vice Provost for Graduate Education	Aug 2014 – Apr 2015
Competition Judge Arizona State Level National Geography Bee	Apr 2011, 2014, 2015
Brown Bag Organizer ASU School of Geographical Sciences and Urban Planning	Aug 2013 – Dec 2013
Geography Graduate Student Representative ASU School of Geographical Sciences and Urban Planning	Aug 2012 – May 2013
Colloquium Committee Student Member ASU School of Geographical Sciences and Urban Planning	Aug 2011 – May 2012
New Faculty Orientation Student Panelist University of Victoria. Victoria, British Columbia	May 2009
Tour Guide and Panelist for Prospective Students University of Victoria. Victoria, British Columbia	2008 – 2009

PUBLICATIONS AND PRESENTATIONS

PEER-REVIEWED PUBLICATIONS

- Shimizu, M., Wentz, E.A, **Merson, J.**, Gold, A.J., and Kellogg, D.Q. (2018) Modeling anthropogenic nitrogen flow for the Niantic River catchment in coastal New England. *Landscape Ecology*. doi.org/10.1007/s10980-018-0667-3
- Shook, E., **Merson, J.**, Wentz, E.A., (In review) Network Flow Algebra for Modeling Non-Point Source Pollution: A Case Study Modeling Nitrogen in Niantic Watershed, Connecticut.
- Wagner, M., **Merson, J.**, Wentz, E.A., (2016) Design with Nature: Key lessons from McHarg's intrinsic suitability in the wake of Hurricane Sandy. *Landscape and Urban Planning*. 155: 33-46.

PEER-REVIEWED PUBLICATIONS - FIGURE CONTRIBUTIONS

- Schmidtke, H.R. (Forthcoming). The TextMap general purpose visualization system: algorithms. *(Figure design)*
- Middleton, A.D., H. Sawyer, J.A. Merkle, M.J. Kauffman, E.K. Cole, S.R. Dewey, J.A. Gude, D.D. Gustine, D.E. McWhirter, K.M. Proffitt, and P.J. White. (In press). Conserving transboundary wildlife migrations: emerging insights from the Greater Yellowstone Ecosystem. *Frontiers in Ecology and the Environment*. *(Figure and data visualization design)*
- Aikens E.O. et al (In review). Wave-like patterns of green-up shape ungulate movement in temperate ecosystems. *Science*. *(Figure design)*
- Geremia, C., J.A. Merkle, M. Hebblewhite, D.R. Eacker, and R.L. Wallen, M.J. Kauffman (2019). Yellowstone- Where Green Waves and Grazing Lawns Meet. *Proceedings of the National Academy of Sciences*. DOI: 10.1073/pnas.1913783116 *(Cartographic design)*
- Jesmer, B. R., J. A. Merkle, J. R. Goheen, , E. O. Aikens, D. E. McWhirter, A. B. Courtemanch, M. A. Hurley, H. M. Miyasaki, K. L. Monteith, J. L. Beck, and M.J. Kauffman. (2018). Is ungulate migration culturally transmitted? Evidence of social learning from translocated animals. *Science* (361) 1023-1025. *(Figure and data visualization design)*
- Benson, E. (2018). The long, strange trip of Deer 255 (aka in Print: The record-breaking journey of Deer 255). *High Country News* Aug 20, 2018, 6–7. *(Contributed data visualization design)*
- Müller, B., L. Johnson, and D. Kreuer. 2017 "Maladaptive outcomes of climate insurance in agriculture", *Global Environmental Change* 46: 23-33 *(Interactive figure visualization design)*
- Ripplinger, J., Collins, S. L., York, A. M., and Franklin, J.. (2017). Boom–bust economics and vegetation dynamics in a desert city: How strong is the link? *Ecosphere* 8(5):e01826. 10.1002/ecs2.1826 *(Figure design)*

REFEREED CONFERENCE PROCEEDINGS

- Wagner, M*, **Merson, J.**, Gentile, L.E., Wentz, E.A., (2016) Sustainable Urban Planning and Climate Change Scenarios: an investigation of Staten Island's urban planning. Proceedings of 5th Fábos Conference on Landscape and Greenway Planning, June 30, 2016. Budapest, Hungary.

NON-REFEREED PUBLICATIONS AND PROCUTS

- Mazurek, L., **Merson, J.**, Meacham, J., and Steingisser, A. *Memorializing Connectivity: Ostia Antica's Piazza Delle Corporazioni*. Online. <https://bit.ly/OstiaPDC> *(Project and cartographic design)*

- Meacham, J.E., Steingisser, A.Y., **Merson, J.**, (2019) Cartography at the University of Oregon InfoGraphics Lab. Chapter in Buckley, Aileen R. Editorial: 2019 US National Report to the ICA. *Cartography and Geographic Information Science*, 46:3, 195.
- Nickerson, G., **Merson, J.**, Kauffman, M., Meacham, J., and Steingisser, A. (2019) *World Record Deer Migration Visualized in 3D for the First Time, Film*, on-line. Wyoming Migration Initiative. (Contributed cartographic animation)
- Nickerson, G. and Zaffarano, T. (2019). *On the Elk Trail: A Wyoming migration miniseries. Episode 1*. Online. (Contributed cartographic animation)
- Redaelli, E. (2019). *Connecting Arts and Place: Cultural Policy and American Cities*. London, New York; Palgrave. (Cartographic design)
- Meacham, J.E., Steingisser, A., **Merson, J.**, (2019) *Cartography at the University of Oregon InfoGraphics Lab*. Chapter in Buckley, Aileen R. Editorial: 2019 US National Report to the ICA. *Cartography and Geographic Information Science*, 46:3, 195.
- Oregon Department of Geology and Mineral Industries (DOGAMI), Tsunami Evacuation Maps, 2018. (Cartographic design)
- UO Government & Community Relations. (2019). Oregon Impact 2019-20. Online. (Webmap design)
- Kauffman, M., Meacham, J.E., and Sawyer, H., Steingisser, A., Rudd, W. and Ostlind, E., (2018). *Wild Migrations: An atlas of Wyoming's Ungulates*. Oregon State University Press. (Contributed to editing and data visualization design)
- Benson, E. (2018). The long, strange trip of Deer 255 (aka in Print: The record- breaking journey of Deer 255). *High Country News*. Aug 20, 2018, 6–7. (Contributed figure and data visualization design)
- No Author. (2018). Connect Interview: Steve Huter, Director of the Network Startup Resource Center (NSRC). Issue 30, 24-26. (Contributed figure and data visualization design)
- Merson, J.** (2017) Data Visualization by Andy Kirk – Book Review. *Environment and Planning B: Urban Analytics and City Science*. DOI 10.1177/2399808317715320
- Meacham, J.E., and Jacobson-Tepfer, E. (2011), *Archaeology and Landscape in the Mongolian Altai: Atlas and Interactive Website*. Online. (Webmap update and support)
- Merson, J.** (2006) Union of BC Municipalities Sprinkler Protection Program: Historical Trends, Current Practices, and Options for the Future. Union of British Columbia Municipalities: Victoria, Canada.

CONFERENCE/NOTABLE PRESENTATIONS

- Merson, J.***, Conte, K. (2020) Routeview Visibility Map. Presented at Workshop on Active Internet Measurements: Knowledge of Internet Structure: Measurement, Epistemology, and Technology (AIMS-KISMET).
- Song, S.*, **Merson, J.**, Huter, S. (2019) Presentation of Pilot Mapping of East Africa Fiber Network. Presented via web to World Bank Vice President of Infrastructure.
- Merson, J.***, Meacham, J.E., Steingisser, A.Y., (2019) "Designing "Beat the Wave" Tsunami Evacuation Maps". Presented at North American Cartographic Information Society Annual Meeting, Tacoma, Washington.
- Pulido, L.* (2019) "Commemorating to Erase: Making Visible White Supremacy in Oregon's Historic Places". Wayne Morse Resident Scholar Presentation (Fig. design)

- Merson, J.***, Rosenberg, D., Meacham, J.E., (2018) "Transforming Priestley's 1769 Timeline into an Interactive Infographic". Presented at North American Cartographic Information Society Annual Meeting, Norfolk, Virginia.
- Meacham, J.E.*, Steingisser, A.Y., and **Merson, J.** (2018) "Wild Migrations: An Atlas for Conservation Advocacy", Presentation, Presented at North American Cartographic Information Society Annual Meeting, Norfolk, Virginia.
- Merson, J.***, Rosenberg, D., Elan, B., Meacham, J., Meacham, J.E., (2018) "Interactive development on the Historical 1700's Priestley Timeline: A New Chart of History". Presented at Portland Cartography Symposium, Portland, Oregon.
- Merson, J.** (2017) Determining current uses of cartographic animation in academic geography using a journal content analysis. Presented at North American Cartographic Information Society Annual Meeting, Montreal, Canada.
- Merson, J.** (2016) Beyond Speed and Accuracy, Let's Focus on Engagement and Memorability: Creating A New Instruments for Evaluating Cartographic Animations. Presented at Association of American Geographers Annual Meeting, San Francisco, California.
- Merson, J.** (2015) Beyond Speed and Accuracy, Let's Focus on Engagement and Memorability: Creating New Instruments for Evaluating Cartographic Animations. Presented at North American Cartographic Information Society Annual Meeting, Minneapolis, Minnesota.
- Merson, J.** (2014) VisMatch: A Web Tool for Selecting Effective Space-Time Visualization Techniques, Tool Design, and Preliminary User Study Results. Presented at North American Cartographic Information Society Annual Meeting, 2014, Pittsburgh, Pennsylvania.
- Merson, J.***, Deitrick, S. (2014) Uncertain Science, Policy, & Public Action. The Cartography and Geographic Information Society's AutoCarto Symposium, Pittsburgh, Pennsylvania.
- Li, Wenwen, Wentz*, E.A., and **Merson, J.** (2014) Normalized Mass Moment of Inertia to Quantify Space-Time Patterns of Urban Growth. Presented at GIScience, Vienna, Austria.
- Merson, J.** (2014) VisMatch: A Web-Based Approach to Help Researchers Efficiently Identify Effective Space-Time Visualization Techniques. Presented at the Association of American Geographers Annual Meeting, Tampa, Florida.
- Wagner, M.*, **Merson, J.** (2014) The Role of Ian McHarg's Land Use Suitability in Hurricane Sandy. Presented at the Association of American Geographers Annual Meeting, Tampa, Florida.
- Merson, J.** (2013) Communication of Nitrogen Removal Rates for a Watershed Management Spatial Decision Support System. Presented at the Association of American Geographers Annual Meeting, Los Angeles, California.

POSTERS

- Merson, J.** (2015) Beyond Speed and Accuracy, Let's Focus on Engagement and Memorability: A New Framework for Evaluating Cartographic Animations. Presented at ASU Institute of Social Science Research Student Poster Contest. Tempe, Arizona
- Deitrick, S., **Merson, J.** (2014) Conceptualization and Representation of Uncertainty for Science-Based Policymaking. Presented at GIScience. Vienna, Austria.
- Merson, J.** (2012) Calculation of Nitrogen Loads at the Catchment and Watershed Levels: For Inclusion in an Interactive Spatial Decision Support System. Presented at the Association of American Geographers Annual Meeting. New York, New York.

HONORS AND AWARDS

Highlighted in "Around the 'O': One deer's journey: An epic migration is revealed in new maps. https://around.uoregon.edu/content/one-deers-journey-epic-migration-revealed-new-maps	Oct 2019
Ecological Society of America George Mercer Award for Jesmer, B. R., J. A. Merkle, J. R. Goheen, , E. O. Aikens, D. E. McWhirter, A. B. Courtemanch, M. A. Hurley, H. M. Miyasaki, K. L. Monteith, J. L. Beck, and M.J. Kauffman. (2018). Is ungulate migration culturally transmitted? Evidence of social learning from translocated animals. <i>Science</i> (361) 1023-1025. <i>(Contributed figure and data visualization design)</i>	2019
ASU College of Liberal Arts and Sciences 2016 Graduate Excellence Award	2016
Association of American Geographers Cartography Specialty Group Honors Student Paper Competition Finalist	2016
ASU Institute of Social Science Research Student Poster Competition Winner	2015
ASU Graduate and Professional Students Association 2014-2015 Teaching Excellence Award (Nominee)	2015
ASU College of Liberal Arts and Sciences 2014 Graduate Excellence Award	2014
Association of American Geographers Cartography Specialty Group Honors Student Paper Competition Winner	2014
Arizona Geographic Information Council Tony Gonzales Scholarship Award	2013
ASU Graduate and Professional Students Association 2012-2013 Teaching Excellence Award (Nominee)	2013
MicroGIS Foundation for Spatial Analysis Supplemental Research Fellowship, Lausanne Switzerland	2009
Association of American Geographers Marble-Boyle Undergraduate Achievement Award in Geographic Science	2008
Geomatics Canada Scholarship Award	2006
Esri Canada Student Scholarship Award	2006
The Leonard Foundation Scholarship	2004

COMPETITIVE FUNDING

NACIS Professional Travel Grant \$300 for travel to NACIS 2018	Oct 2018
ASU Graduate and Professional Student Association Travel Grant \$450 for travel to NACIS 2017	Oct 2017
ASU Graduate and Professional Student Association Travel Grant \$950 for travel to NACIS 2016	Oct 2016
ASU Graduate and Professional Student Association Travel Grant \$950 for travel to American Association of Geographers' 2016 Annual General Meeting.	Mar 2016

Preparing Future Faculty Emeriti Fellowship 2015-2016 \$1,500 research award	May 2015
Preparing Future Faculty Organization Travel Grant \$400 for travel to AutoCarto 2014	Sep 2014
North American Cartographic Information Society Student Travel Grant \$200 for travel to NACIS 2014	Sep 2014
ASU Graduate College Travel Grant \$350 for travel to GIScience 2014	Sep 2014
ASU Graduate and Professional Student Association Travel Grant \$950 for travel to GIScience 2014	Aug 2014
ASU Graduate College Travel Grant \$350 for travel to American Association of Geographers' 2014 AGM	Feb 2014
ASU Graduate and Professional Student Association Travel Grant \$550 for travel to American Association of Geographers' 2014 AGM	Mar 2014
ASU Graduate and Professional Student Association Travel Grant \$950 for travel to American Association of Geographers' 2013 AGM	Jan 2013
ASU Graduate and Professional Student Association Travel Grant \$950 for travel to American Association of Geographers' 2012 AGM	Dec 2011