

# Fritz Connor Kessler

Associate Teaching Professor

Pennsylvania State University, Department of Geography

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Last updated 01/23

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## Education

**PhD** in Geography, emphasis in cartography and geographical visualization, University of Kansas, Lawrence, KS, 1999.

**Dissertation Topic:** *The U-Boat Narrative: A Computer-Based Exploration of the 1939-1945 U-boat Conflict.*

Advisor: Dr. Terry Slocum

**MS** in Geography, emphasis in cartography, map projections, and expert system design, Pennsylvania State University, University Park, PA, 1991.

**Thesis Topic:** *MaPSS: An Expert System Designed to Assist a User in the Selection of a Suitable Map Projection.*

Advisor: Dr. Alan MacEachren

**BS** in Geography, emphasis in cartography, minors in Mathematics and History, Ohio University, Athens, OH, 1988.

Undergraduate Advisor: Dr. Huberts Blömer

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## Academic Employment History

*Teaching Professor, Penn State, 2020 – present*

*Associate Teaching Professor, Penn State, 2017 – 2020*

*Senior Research Associate and Associate Professor, Penn State, 2015 – 2017*

*Adjunct Professor, Pennsylvania State University, 2007 to 2015*

*Professor, Frostburg State University, 2013 - 2015*

*Associate Professor, Frostburg State University, 2005 to 2013*

*Assistant Professor, Frostburg State University, 1999 – 2005*

*Adjunct Professor, Department of Mathematics, Frostburg State University, 1999*

*Graduate Teaching Assistant, University of Kansas, 1997 – 1999*

*Graduate Teaching Assistant, Penn State, 1989 – 1991*

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## Membership in Academic and Professional Societies

North American Cartographic Information Society

Cartography and Geographic Information Society

International Cartographic Association / Working Group on Map Projections

American Association of Geographers

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## Honors Awarded

Frostburg State University's Faculty Achievement Award in Academic Accomplishment, 2005 and 2012

University of Kansas' honors on doctoral candidacy exam and dissertation defense, 1999

University of Kansas' George Jenks Scholarship in Cartography, 1996 and 1997

Outstanding Ohio University Undergraduate Geography Award, 1988

Ohio University's Ellen G. Farnsworth Scholarship, 1987

Ohio University Dean's Scholarship, 1985 and 1986

Ohio University's Dean's List, 1985 – 1988

## Courses Taught

### Penn State University

#### Online Courses

GEOG 486 – *Cartography and GeoVisualization*†

GEOG 583 – *Geospatial System Analysis and Design*†

GEOG 586 – *Geographical Information Analysis*†

GEOG 597G – *Challenges in Geospatial Analytics*\*\*

GEOG 861 – *The Earth is Round and Maps are Flat: Spatial Reference Systems for GIS*\*\*

#### Resident Undergraduate Courses

GEOG 361 – *Cartography: Maps and Map Construction*†

GEOG 464 – *Advanced Spatial Analysis*†\*

EMSC 100 – *Surviving a Diseased World*†\*

### Frostburg State University

#### Lower-Level Undergraduate

GEOG 103 – *Introduction to Physical Geography*†

GEOG 275 – *Introduction to Spatial Analysis*†\*

#### Upper-Level Undergraduate

GEOG 310 – *Fundamentals in the Mapping Sciences*†\*

GEOG 317 – *Introduction to Geographical Information Systems*†\*

GEOG 380 – *Research Methods and Field Research*†\*

GEOG 412 – *Geographic Visualization*†\*

GEOG 415 – *Applied Design in the Mapping Sciences*†\*

GEOG 418 – *Cartometrics*\*\*

GEOG 433 – *Surveying and Field Techniques*†

#### Undergraduate Non-Geography Courses

IDIS 350 – *Surviving in a Diseased World*\*\*

MATH 209 – *Elements of Applied and Probability Statistics*†

† indicates an existing course

\* implemented significant changes to an existing course

\*\* indicates a new course development

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## Book Publications

2022. Slocum, Terry, Robert McMaster, Fritz **Kessler**, and Hugh Howard. *Thematic Cartography and Geovisualization*. 4<sup>th</sup> ed., CRC Press. Boca Raton: FL.

2019. **Kessler**, Fritz and Sarah Battersby. *Working with Map Projections: A Guide to their Selection*. CRC Press. Boca Raton: FL. 317 pages.

2009. Slocum, Terry, Robert McMaster, Fritz **Kessler**, and Hugh Howard. *Thematic Cartography and Geovisualization*. 3<sup>rd</sup> ed., Prentice Hall. Upper Saddle River: NJ. 576 pages.

2005. Slocum, Terry, Robert McMaster, Fritz **Kessler**, and Hugh Howard. *Thematic Cartography and Geographic Visualization*. 2<sup>nd</sup> ed., Prentice Hall. Upper Saddle River: NJ. 528 pages.

## Refereed Publications

2023. Kessler, Fritz and Battersby, Sarah. "Cognition and perception of map projections: A literature review." *Cartography and Geographic Information Science*. (under review)
2022. **Kessler**, Fritz. Vertical (Geopotential) Datums. *The Geographic Information Science & Technology Body of Knowledge* (2<sup>nd</sup> Quarter 2021 Edition). John P. Wilson (ed.). doi: 10.22224/gistbok/2022.2.4 (Invited)
2022. **Kessler**, Fritz. Horizontal (Geometric) Datums. *The Geographic Information Science & Technology Body of Knowledge* (2<sup>nd</sup> Quarter 2021 Edition). John P. Wilson (ed.). doi: 10.22224/gistbok/2022.2.6 (Invited)
2022. McDonald, Max and **Kessler**, Fritz. "Least-cost path and accessibility analysis of a high-speed railway corridor Victorville, CA to Las Vegas, NV." *Journal of Geographic Information System*. 14(1):40-60. doi: 10.4236/jgis.2022.141003
2021. King, Beth and **Kessler**, Fritz. "Study Abroad in an Embedded Online Geography Class for Adult Working Professionals" In *Experiential Learning in Geography: Experience, Evaluation, and Encounters*. Ed. Jonathan Wessell. Springer. Zürich, Switzerland. doi: 10.1007/978-3-030-82087-9 (Invited)
2021. Gallagher, Patricia and **Kessler**, Fritz. *Developing Map Marginalia Design Standards for the Alaskan Division of Geological & Geophysical Surveys*. Report of Investigation 2021-2. Alaskan Department of Natural Resources. Fairbanks: AK.
2020. Geyer, Nathaniel R.; **Kessler**, Fritz C.; Lengerich, Eugene J. "LionVu 2.0 Usability Assessment for Pennsylvania, United States." *ISPRS Int. J. Geo-Inf*. 9(11): 619. doi: 10.3390/ijgi9110619
2018. **Kessler**, Fritz. "Map Projection Education in Cartography Textbooks: A Content Analysis." *Cartographic Perspectives*, 90:6-30. doi: 10.14714/CP90.1449
2018. Kamptner, Erika and **Kessler**, Fritz. "What Motivates OpenStreetMap Users? Comparing User Contributions to Small-Scale Crisis Events." *GeoJournal*, 84(5):1165-1185. doi: 10.1007/s10708-018-9912-1
2015. Ricker, Britta, Nadine Schuurman, and Fritz **Kessler**. Implications of Smartphone Usage on Privacy and Spatial Cognition: Academic Literature and Public Perceptions. *GeoJournal*, 80(5):637-652. doi: 10.1007/s10708-014-9568-4
2012. Battersby, Sarah and **Kessler**, Fritz. "Cues for Interpreting Distortion in Map Projections." *Journal of Geography*, 111(3):93-101. doi: 10.1080/00221341.2011.609895
2011. **Kessler**, Fritz. "Volunteered Geographic Information: A Bicycling Enthusiast Perspective." *Cartography and Geographic Information Science*, 38(3):258-268. doi: 10.1559/15230406382258
2011. **Kessler**, Fritz and Slocum, Terry. "Analysis of Thematic Maps Published in Two Geographical Journals in the Twentieth Century." *Annals of the Association of American Geographers*, 101(2):292-317. doi: 10.1080/00045608.2010.544947
2004. Slocum, Terry, Robert Sluter, Fritz **Kessler**, and Steven Yoder. "A Qualitative Evaluation of MapTime." *Cartographica*, 39(3):43-68. doi: 10.3138/92t3-t928-8105-88x7
2002. **Kessler**, Fritz. "Focus Groups as a Means of Qualitatively Assessing the U-Boat Narrative." *Cartographica*, 37(4):33-60. doi: 10.3138/c631-11m4-14j3-1674
2001. Slocum, Terry, Steven Yoder, Fritz **Kessler**, and Robert Sluter. "MapTime: Software for Visualizing

Spatiotemporal Data Associated with Point Locations." *Cartographica*, 37(1):15-31. doi: 10.3138/t91x-1n21-5336-2r73

2000. **Kessler**, Fritz. "A Visual Basic Algorithm for the Winkel Tripel Projection." *Cartography and Geographic Information Science*, 27(2):177-183. doi: 10.1559/152304000783547939

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## Non-Refereed Publications

2020. **Kessler**, Fritz. "Projections." In *International Encyclopedia of Human Geography* 2<sup>nd</sup> ed., Volume 1, Ed. Robin Kitchin and Nigel Thrift. Oxford: Elsevier. (Invited)

2019. **Kessler**, Fritz. "Learning about and Working with Map Projections." *Cartography and Geographic Information Science: 2019 US National Report*. 46(6):65-69. (Invited)

2019. **Kessler**, Fritz and Terry Slocum. "Is the Map Losing its Power? A Survey of the Map's Changing Role in the Annals of the Association of American Geographers." In *Handbook of the Changing World Language Map*, Eds. Stanley Bruun and Roland Kehrein, Springer, New York, NY. doi:10.1007/978-3-319-73400-2\_50-1 (Invited)

2017. **Kessler**, Fritz, Sarah Battersby, Michael Finn, and Keith Clarke. "Map Projections and the Internet." In *Choosing a Map Projection*. Eds. Miljenko Lapaine and E. Lynn Usery, 117-148. Springer, New York, NY. doi: 10.1007/978-3-319-51835-0\_4

2015. Slocum, Terry and **Kessler**, Fritz. "Thematic Mapping." In the *History of Cartography Project: Cartography in the Twentieth Century*, Ed. Mark Monmonier, 1500-1524. University of Chicago Press, Chicago: IL. doi: 10.7208/chicago/9780226152127.001.0001 (Invited)

2014. **Kessler**, Fritz. "The Importance of Horizontal and Vertical Datums." *LiDAR News*, 4(5):30-33.

2012. **Kessler**, Fritz. "Symbolizing America." In *Mapping America: Exploring the Continent*. 16-27. Black Dog Publishing London, England.

2011. Slocum, Terry and Fritz **Kessler**, Fritz. "Analysis of Thematic Map Design in the Geographical Journal and the Geographical Review during the Twentieth Century." In Proceedings of the 25<sup>th</sup> International Cartographic Association's Conference. Paris, France.

2009. **Kessler**, Fritz. "Projections." In *International Encyclopedia of Human Geography*, Volume 1. Ed. Robin Kitchin and Nigel Thrift, 455-473. Elsevier, Oxford: England. doi: 10.1016/c2009-1-28241-4 (Invited)

2009, **Kessler**, Fritz and Amy Griffin. "Results of the *Cartographic Perspectives* Readership Survey." *Cartographic Perspectives*, 53 (Summer):4-16. doi: 10.14714/cp63.158

2004. Slocum, Terry, Hugh Howard, Fritz **Kessler**, and Robert McMaster. "Recent and Ongoing Developments in Geographic Visualization." *American Congress on Surveying and Mapping: Bulletin*, January/February, (207):8-17.

1992. **Kessler**, Fritz. "Adapting to the Changing Needs of Contemporary Cartography through the Development of New Map Projection Selection Strategies: A Review." *Technical Papers*. American Society of Photogrammetry and Remote Sensing & American Congress on Surveying and Mapping: 284-293.

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## Published Book Reviews

2019. *Lining up Data in ArcGIS*, 3<sup>rd</sup> ed., by Maher, Margaret in *Cartographic Perspectives*, 92(Winter):21-23.

2018. *Introduction to Geodetic Datum and Geodetic Systems*, by Zhiping Lu, Y. Qu, and S. Qiao in *Cartographic Perspectives*, 91(Fall):73-75.

2012. *Lining up Data in ArcGIS*, by Maher, Margaret in *Cartographic Perspectives*, 72(Spring):97-99.

2011. *Oxford Comprehensive Atlas of the World*, by Dibyesh, Anand, John Burden, Peter Grego, Keith Lye, and Garrett Nagle in *Cartographic Perspectives*, 69(Spring):75-78.

2010. *Cartography: Visualization of Spatial Data*, 3<sup>rd</sup> ed., by Kraak, Menno-Jan and Ferjan Ormeling, in *Applied Spatial Analysis and Policy Journal*, 4(2):141.

2006. *Working with Projections and Datum Transformations in ArcGIS: Theory and Practical Examples*, by Flacke, Werner and Birgit Kraus, in *Cartography and Geographic Information Science*, 33(3):233-237.

2006. *Plotting the Globe: Stories of Meridians, Parallels, and the International Date Line*, by Ariel, Avraham and Nora Ariel Berger, in *Cartographic Perspectives*, 55 (Fall):63-66.

2006. *Integrated Geospatial Technologies: A Guide to GPS, GIS, and Data Logging*, by Jeff Thurston, Thomas Poiker, and J. Patrick More, in *Cartography and Geographic Information Science*, 33(1):93-96.

2005. *A Railroad Atlas of the United States in 1946: Volume 1: The Mid-Atlantic States*, by Carpenter, Richard, in *Cartographic Perspectives*, 50(Winter):54-56.

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## Published Maps

2015. Kessler, Fritz. "Trails in Garrett County, MD" Garrett County Maryland's Department of Tourism. 48" x 36"

2001. Raesly, Elaine. and G. Dates. "Water Quality Assessment of the Town Creek Watershed in Pennsylvania and Maryland, 2001" Ridge and Valley Streamkeepers. 8.5"x11"

2001. Kinciger, A. P. and R. L. Raesly. "A Narrow Hybrid Zone between Two *Cottus* Species in Wills Creek, Potomac Drainage." *The Journal of Heredity*, 92(4):309-314. Figure 1.

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## Sabbaticals

Spring 2013. Surveyed the use and popularity of world map projection use in world atlases.

Spring 2006. A qualitative analysis of student perception of map projection distortion symbolization.

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## Conference Presentations

2022. with Sarah Battersby "Cognition and Perception of Map Projections: A Review" AutoCarto 2022, Redlands, CA.

2020. With Jane Sutterlin, "Utilize Online Tools and Sound Learning Science to Improve the Student Writing and Analysis Process." Online Learning Consortium Accelerate Conference. Orlando, FL.

2019. With Yu Zhang, Hope Bodenschantz. "Developing and Redesigning a Custom Coordinate System for Penn State's Emergency Responders." North American Cartographic Information Society's Conference. Tacoma, WA.

2019. With Sara Battersby. "Thoughts on Working with Map Projections." North American Cartographic Information Society's Conference. Tacoma, WA.

2019. With Hope Bodenschantz. "Developing and Redesigning a Custom Coordinate System for Penn State's Emergency Responders." American Association of Geographers Annual Meeting. Washington, DC.

2017. "Educating a General Readership on Map Projections in Twentieth Century Thematic World Atlases: A

Survey." International Cartographic Association's 28<sup>th</sup> International Cartographic Conference. Washington D.C.

2016. With Terry Slocum. "Is the Map Losing its Power? A Survey of the Map's Changing Role in the *Annals of the Association of American Geographers*." American Association of Geographers Annual Meeting. San Francisco, CA.

2014. "World Map Projections used in World Atlases: Rise of the Pseudocylindrics." AutoCarto Conference. Pittsburgh, PA.

2014. "Map Projection Education in World Atlases: A Review." North American Cartographic Information Society's Conference. Pittsburgh, PA.

2013. With James Sloan. "Developing and Teaching an Online Course on Coordinate Systems through Penn State's World Campus." North American Cartographic Information Society's Conference. Greenville, SC.

2013. With Rick Bradshaw. "Inspection of Topographic Distance Measurements with ArcGIS." North American Cartographic Information Society's Conference. Greenville, SC.

2012. With Sarah Battersby. "Cues for Interpreting Distortion in Map Projections." American Association of Geographers Annual Meeting. New York, NY.

2010. "Integrating GPS and Health Data with Participatory Web Mapping: Technologies Designed for Analyzing Bicycle Racing Fitness." North American Cartographic Information Society's Conference. Saint Petersburg, FL.

2010. With Terry Slocum. "Evaluating Changes in Thematic Map Design in the Annals over the 20<sup>th</sup> Century." Association of American Geographers Annual Meeting. Washington, D.C.

2009. With Amy Griffin. "Results of the Cartographic Perspectives Readership Survey." North American Cartographic Information Society's Conference. Sacramento, CA.

2009. With Michael Braymen. "A GIS Tool for Evaluating Distortion of Map Projections." North American Cartographic Information Society's Conference. Sacramento, CA.

2009. With Terry Slocum. "History of Thematic Cartography: Design and Construction Issues." Association of American Geographers Annual Meeting. Las Vegas, NV.

2006. With daan Strebe. "Student Perception of Map Projection Distortion Symbolization Methods." North American Cartographic Information Society's Conference. Madison, WI.

2004. "Lessons Learned: Reflections on Co-authoring *Thematic Cartography and Geographic Visualization*." North American Cartographic Information Society's Conference. Portland, ME.

2003. "Descriptive Statistics for Geographically Referenced Data." Frostburg State University 32<sup>nd</sup> Annual Mathematics Symposium. Frostburg, MD.

2002. "Incorporating Student Learning Strategies into Interactive Teaching Tools." North American Cartographic Information Society's Conference. Columbus, OH.

2001. With MaryJo Price. "Cartographic Treasures amongst a Sea of Pearls." Mid-American Division of the Association of American Geographers Conference. Frostburg, MD.

2000. With Terry Slocum. "Utilizing Focus Groups as a Means of Qualitative Assessment for Software Development." Association of American Geographers Annual Meeting. Pittsburgh, PA.
2000. "Introducing the U-boat Narrative: A Data Exploration System for the U-Boat War 1939-1941." The Society of Military History Conference Marine Corps University. Quantico, VA.
2000. "Introducing Earth to Map: Software for Understanding the Mathematics of Map Projections." North American Cartographic Information Society's Conference. Knoxville, TN.
1999. "Results and Experiences of Using Focus Groups to Evaluate the U-Boat Narrative: A Data Exploration System for the U-Boat War 1939-1945." North American Cartographic Information Society's Conference. Williamsburg, VA.
1998. "The U-Boat Narrative: Data Exploration Possibilities of the U-boat Conflict 1939-1945." North American Cartographic Information Society's Conference. Milwaukee, WI.
1998. "Data Exploration and the U-Boat Conflict of 1939-1945." American Association of Geographers Conference: Great Plains and Rocky Mountain Meeting. Lawrence, KS.
1997. "A Critique of Map Projection Selection Guidelines." American Association of Geographers Conference. Fort Worth, TX.
1996. "Selecting map projections for the World Wide Web." American Congress on Surveying and Mapping Mid-Western GIS Conference. Kansas City, MO.
1992. "Adapting to the Changing Needs of Contemporary Cartography through the Development of New Map Projection Selection Strategies: A Review." American Society of Photogrammetry and Remote Sensing & American Congress on Surveying and Mapping Convention. Washington, D.C.

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### **Grants Awarded**

- Penn State's Global Programs Faculty Travel Grant, University Office of Global Programs, \$3,000, 2017
- Penn State's Global Programs Faculty Travel Grant, University Office of Global Programs, \$3,000, 2016
- Penn State's Gladys Snyder Junior Faculty Award, \$1,700, 2016
- American Geographical Society Helen and John S. Best Research Fellowship in Cartography, \$500.00, 2013
- Frostburg State University's Faculty Development and Sabbatical Subcommittee Grant, \$650, 2009
- Frostburg State University's Foundation Grant, \$650, 2009
- Maryland Department of Natural Resources Grant "Working Woodlot Initiative," \$5,500, 2005
- Frostburg State University's Faculty Development and Sabbatical Subcommittee Grant, \$875, 2001

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### **Workshop Presentations**

2022. (with Sarah Battersby) "Map Projections – Practical Selection and Use with Current Research Directions." Workshop held at the AutoCarto, 2022 conference.
1997. (with Jennie Dienes) "Paper and Electronic Maps: Available Resources at the University of Kansas' Map Library" Workshop held at the T.R. Smith Map Collection for the University Community, University of Kansas.
1997. "Digital Orthophoto Quads and Their Role in Large Scale Mapping" Workshop held at the T.R. Smith Map Collection for the Kansas Association of Mappers. University of Kansas.

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## **Invited Presentation**

2022. "Mapping Technology Goes to War." Pennsylvania Military Museum, October, 2022.

2009. "Creating Effective Map Design with GIS." Western Maryland GIS User's Group. Cumberland, MD.

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## **Poster Presentations**

2015. "Celebrating the International Map Year." Association of American Geographers Annual Meeting. Chicago, IL.

2004. "The International Cartographic Committee's Newly Established Working Group on Map Projections." ACSM/TAPS Conference. Nashville, TN.

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## **Students Supervised in the Masters of Geographic Information Science (MGIS) Program**

Cpt. Cody Gilham "Using ArcGIS to conduct a site suitability analysis for field artillery emplacements: A proof of concept." Fall, 2022.

Chris Harris "Exploratory Spatial Analysis for Safe Wildlife Passage in Southwestern Montana." Fall, 2021.

Cullen Williams-Freier "A Spatiotemporal Analysis of Crime Occurrences in Minneapolis in Relation to the Murder of George Floyd." Fall, 2021.

Wang, Boyang, "ParkWhere? – Designing a Mobile Application for Finding and Reporting Available Street Parking Spot," presented online through the MGIS Virtual Conference. Graduated spring, 2021

Lanier, Ashley, "Marijuana Dispensary Locations and the Spatial Autocorrelation of Crime Rates in Denver, Colorado," presented online through the MGIS Virtual Conference. Graduated spring, 2020.

MacDonald, Max, "High-Speed Railway from Los Angeles to Las Vegas: An Accessibility, Least-Cost Path and Cost-Distance Analysis Using G.I.S.," presented online through the MGIS Virtual Conference. Graduated summer, 2020.

Geyer, Nathaniel, "LionVu 2.0 Usability Assessment for Pennsylvania," presented online through the MGIS Virtual Conference. Graduated summer, 2020.

John Swett, "Modeling Sanitary Sewer Overflows: Binary Logistic Regression Analysis of the Beaver Ruin Sewer Basin," presented online through the MGIS Virtual Conference. Graduated fall, 2020.

Vasquez, Andres, "Methodology to Transform Local Altimetric Datums Into Official Elevation Datum for Reservoirs in Colombia," presented at the Ministry of Dams and Reservoirs, Medellin, Columbia. Graduated summer, 2019.

Shively, James, "Using GIS to Define Access to Veteran Healthcare in Ohio," presented at the Ohio GIS Conference. Columbus, OH. Graduated fall, 2018.

Case Robertson, "A Fundamental Study into Interior Navigation Technologies," presented at the American Association of Geographers Conference. New Orleans, LA. Graduated spring, 2018.

Patricia Gallagher, "Developing Map Marginalia Design Standards for the Alaska Division of

Geological & Geophysical Surveys," published as a Report of Investigation through the Alaska Division of Geological & Geophysical Surveys. Graduated summer, 2018.

Erika Kamptner, "What Motivates OpenStreetMap Users? A Study of User Contributions through a Comparison of Small-Scale Crisis Events," presented at the State of the Map Conference. Boulder, CO. Graduated fall, 2017.

Chris Klaube, "Development of an Address Point Editing Application for Local Governments & Public Safety Answering Points," presented at the MACURISA conference. Atlantic City, NJ. Graduated spring, 2016.

Parrish Henderson, "More Than a Mollusk: Using GIS to Effectively Repopulate Oyster Habitats in the South River (a Tributary of the Chesapeake Bay)," presented at the Esri User's Conference. San Diego, CA. Graduated summer, 2016.

Jonas Miller, "User-Defined Geospatial Risk Index and Weighting for Initial Emergency Response Mapping," presented at the Towson GIS Conference. Towson, MD. Graduated fall, 2016.

Kymberlie Kelly, "An Analysis of Symbol Design for an Indoor Navigation System," presented at the Delmarva GIS Conference. Dover, DE. Graduated spring, 2015.

Rick Bradshaw, "Inspection of Topographic Distances Measurements within ArcGIS," presented at the NACIS Conference. Greenville, SC. Graduated fall, 2013.

Michael Braymen, "Improving Decision Making in Choosing a Projection," presented at the NACIS Conference. Missoula, MT. Graduated fall, 2008.

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## Service Activities

### *DEPARTMENT LEVEL*

Penn State University, Department of Geography

Interim Director, Online Geospatial Education Programs: 2021 to present

Chair, Advising Team Committee: 2021 to present

Geography Department Head Search Committee: 2021

Faculty Advisory Committee: 2020 to 2022

Assistant/Associate Teaching Professor Search Committee in Geography Department's Online Geospatial Programs: 2020

Chair of the Masters of Geographic Information Science and Spatial Data Science Graduate Admissions Committee: 2020 to present

Masters of Geographic Information Science Graduate Selection Committee: 2015 to present

Fixed-Term Faculty Promotion Committee: 2017 to 2019

Graduate Curriculum Committee: 2015 to 2017

Frostburg State University, Department of Geography

Department Chair: 2011 to 2015

Internship Director: 2000 to 2015

Library Liaison: 2000 to 2015

Technology Committee Chair: 2002 to 2011

Department Evaluation Committee: 2001 – 2004, 2008, 2010 to 2015

Geography Program Review Committee: 2003 to 2004, 2008 to 2009, and 2013 to 2014

Graduate Program Development Committee: 2001 to 2003

Geography Search Committees:

Human Geography position: 2010

Remote Sensing positions: 2001 and 2006

#### UNIVERSITY LEVEL

Penn State University

Open-Source Geospatial Analyst Staff Librarian Search Committee: 2019

Frostburg State University, Department of Geography

Technology Committee Advisory Group: 2004 to 2006

University's Self-Study Committee: 2004 to 2005

#### PROFESSIONAL LEVEL

Pennsylvania State Land Surveyors Geospatial Committee: 2018 to 2020

Editorial Board, *Cartographic Perspectives*: 2011 to present

Editorial Board, *Journal of Maps and Geography Libraries*: 2018 to present

Past President, North American Cartographic Information Society: 2018 to 2019

President, North American Cartographic Information Society: 2017 to 2018

Vice President, North American Cartographic Information Society: 2016 to 2017

Vice President Elect, North American Cartographic Information Society: 2015 to 2016

Cartographic Education Section Editor, *Cartographic Perspectives*: 2015 to present

Editor in Chief, *Cartographic Perspectives*: 2008 to 2010

Board of Directors, Cartography and Geographic Information Society, 2015 to 2018

Board of Directors, North American Cartographic Information Society: 2010 to 2012

Board of Directors, North American Cartographic Information Society: 2004 to 2006

Secretary, International Cartographic Committee's Working Group on Map Projections: 2002 to 2005

Advisory Board, University Consortium for Geographic Information Science: 2005 to 2006

#### COMMUNITY LEVEL

Developed a new grid coordinate system for Penn State and State College's police departments for their emergency response teams: 2018 - 2019

Through GEOG 415 "Applied Design in the Mapping Sciences" at Frostburg State University, I supervised the design and production of the following new maps for local Allegany and Garrett County, MD organizations.

Garrett County Trails Commission – *Garret County Trail System* (2014)

City of Frostburg – *Parks and Recreation & Enterprise Zoning* (2010)

Evergreen Heritage Center – *Historic Land Grant Boundaries* (2010)

Evergreen Heritage Center – *Old Railroad Historic Trail* (2009)

Frostburg's Visitor's Bureau – *Trail Town Map* (2009)

Frostburg First – *Business District Overview of Downtown Frostburg* (2009)

City of Frostburg – *Parking Map* (2009)

Great Alleghany Highland's Trail – *Frostburg's Trail Head of Great Alleghany Passage* (2005)

City of Frostburg – *Frostburg Street Map* (2003)