

# Curriculum Vitae

**Dr. David P. Retchless**

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Texas A&M University at Galveston  
Department of Marine Sciences

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## EDUCATION

**PhD, Geography.** Penn State University, August 2015

- Dissertation: *Und erstanding Local Sea Level Rise Risk Perceptions and The Power of Maps to Change Them: The Effects of Distance, Detail, and Doubt*

**MSc, Geography.** Penn State University, August 2011

- Thesis: *Public Perceptions of Spatial Analogs for Climate Change: A Survey of Centre Region, Pennsylvania Residents*

**BA, Program of Liberal Studies.** University of Notre Dame, May 2004

## PROFESSIONAL APPOINTMENTS

**Assistant Professor.** Department of Marine and Coastal Environmental Science, Texas A&M University at Galveston, September 2015 – present.

**Associate Member.** Marine Biology IDP Graduate Program. July 2020 – present.

**Associate Joint Appointment at rank of Assistant Professor.**

Department of Geography, Texas A&M University, February 2017 – present.

**Graduate Faculty.** Master of Marine Resources Management, Texas A&M University at Galveston, September 2016 – present.

**Faculty Fellow.** Center for Texas Beaches and Shores, Texas A&M University at Galveston, September 2015 – present.

**Graduate Assistant.** Penn State University, August 2010 – May 2015.

## RESEARCH

### **PEER-REVIEWED PUBLICATIONS**

*Journal articles (refereed and published)*

- **Retchless, D.,** W. Mobley, M. Davlasheridze, K. Atoba, A. D. Ross, W. Highfield. 2021. "Mapping cross-scale impacts of storm surge events: Considerations for design and user-testing." *Journal of Maps* 1-13 <https://doi.org/10.1080/17445647.2021.1940325>.

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- Ritt†, B., G. A. Jones, **D. Retchless**. 2021. "Sand and Social Distancing: A UAS study of Galveston, TX beach attendance during COVID-19." *Shore & Beach* 89 (1): 3-9.
- Sterne†, T., **D. Retchless**. 2020. "Predictive Modeling of Mesophotic Habitats in the Northwestern Gulf of Mexico." *Aquatic Conservation: Marine and Freshwater Ecosystems* 30 (4): 846-859.
- Karaye, I.M., J.A. Horney, **D.P. Retchless**, and A.D. Ross. 2019. "Determinants of hurricane evacuation from a large representative sample of the US Gulf Coast." *International journal of environmental research and public health* 16 (21): 4268.
- **Retchless, D.** 2018. "Understanding local sea level rise risk perceptions and the power of maps to change them: The effects of distance and doubt." *Environment and Behavior* 50 (5): 483-511.
- Mason, J. S., **D. Retchless**, and A. Klippel. 2017. "Domains of Uncertainty Visualization Research: A Visual Summary Approach." *Cartography and Geographic Information Science* 44 (4): 296-309.
- Hedberg II, R. C., A. Hesse, D. Baldwin, J. Bernhardt, **D. P. Retchless**, and J. E. Shinn. 2017. "Preparing Geographers for Interdisciplinary Research: Graduate Training at the Interface of the Natural and Social Sciences." *The Professional Geographer* 69 (1): 107-116.
- **Retchless, D.** and C. Brewer. 2016. "Guidance for Representing Uncertainty on Global Temperature Change Maps." *International Journal of Climatology* 36 (3): 1143-1159.
- **Retchless, D.** 2014. "Sea Level Rise Maps: How Individual Differences Complicate the Cartographic Communication of an Uncertain Climate Change Hazard." *Cartographic Perspectives* 77:17-32.
- **Retchless, D.**, N. Frey, C. Wang, L. S. Hung, and B. Yarnal. 2014. "Climate extremes in the United States: recent research by physical geographers." *Physical Geography* 35 (1): 3-21.
- **Retchless, D.** 2014. "Communicating climate change: spatial analog versus color-banded isoline maps with and without accompanying text." *Cartography and Geographic Information Science* 41 (1): 55-74.

## Book chapters (refereed and published)

- Husain, A., K. Jones, A. Kolshorn, **D. Retchless**, K. Tesfaye, C. M. Thatcher, J. Thatcher. 2022 (forthcoming). "Mapping Mecklenburg County: Exploring Census data for potential communities of interest." In *Women in Computational Topology 2*, Association for Women in Mathematics Series, Vol. 30. Gasparovic, E., V. Robins, and K. Turner, eds. Springer International Publishing, Cham, Switzerland.
- **Retchless, D.** 2018. "Bringing the Big Data of Climate Change Down to Human Scale: Citizen Sensors and Personalized Visualizations in Climate Communication." In *Thinking Big Data in Geography: New Regimes, New*

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*Research.* Thatcher, J., A. Shears, and J. Eckert, eds. University of Nebraska Press, Lincoln, NE, pp. 197-213.

## Conference proceedings (refereed)

- Thatcher, J., C. Thatcher, **D. Retchless**. “Putting Mapper on a Map: Cartographic Visualizations of Topological Data Analysis.” Accepted for publication in *Proc. 30<sup>th</sup> International Cartographic Conference*. Florence, Italy, December 14<sup>th</sup>-18<sup>th</sup>, 2021.
- Mason, J., **D. Retchless**, A. Klippel. 2014. “Dimensions of uncertainty: A visual classification of geospatial uncertainty visualization research.” *Proc. 23<sup>rd</sup> International Symposium on Distributed Computing*. University of Technology, Austria, September 23<sup>rd</sup>, 2014.  
[http://cognitivegis.science.psu.edu/uncertainty2014/papers/mason\\_dimensions.pdf](http://cognitivegis.science.psu.edu/uncertainty2014/papers/mason_dimensions.pdf)
- Smith, J., **D. Retchless**, C. Kinkeldey, and A. Klippel. 2013. “Beyond the Surface: Current Issues and Future Directions in Uncertainty Visualization Research.” *Proc. 26<sup>th</sup> International Cartographic Conference*. Dresden, Germany, August 25<sup>th</sup>-30<sup>th</sup>, 2013.  
<http://www.personal.psu.edu/jms1186/Documents/Smith2013Uncertainty.pdf>

†: *coauthor is graduate student advisee*

## RESEARCH FUNDING

- “Testing and Development of a Web-Based Natural Hazard Risk Communication Tool for Southeast Texas.” TDEM via FEMA. PI Wesley Highfield, Co-PIs Sam Brody, **David Retchless**, and Bill Merrell. Total award \$2,526,896, \$81,379 attributable to D. Retchless. Awarded July 2021 – May 2023.
- “EAGER: SAI-E: Synchronizing Decision-Support via Human- and Social-centered Digital Twin Infrastructures for Coastal Communities.” NSF EAGER: SAI-E. PI Xinyue Ye (TAMU LAUP), subaward to TAMUG (**David Retchless**). Total award \$298,982 (sub award \$11,316). Awarded September 2021 – August 2023.
- “Texas Natural Hazard Risk Assessment (Enhanced State Hazard Mitigation Plan - Task 2. Statewide Hazard Data Collection and Analysis) (GLO Contract No. 21-125-000-C775).” Texas Division of Emergency Management. PI Kayode Atoba, Co-PIs . Samuel Brody, Wesley Highfield, Russell Blessing, William Mobley, **David Retchless**, Ashley Ross-Wootton. Total award \$1,450,017, \$207,062.43 attributable to D. Retchless. Awarded June 2021 – October 2023.
- “Learning from Hurricane Laura’s Near Miss on Houston-Galveston: Evacuation Decision Making in an Environment of Compounding Uncertainties and Political Polarization.” CU Boulder Natural Hazards

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Center Weather Ready Program (as sponsored by NSF and NOAA). PI **David Retchless**, Co-PI Ashley Ross. Total award \$7,500, \$6,576 attributable to D. Retchless. Awarded February 2021 – December 2021.

- “Coastal Flood Visualization with Mobile Virtual and Augmented Realities for Risk Communication.” Texas A&M University T3 program. PI **David Retchless**, Co-PIs Xinyue Ye and Galen Newman. Total award \$30,000. Awarded January 2021 – December 2022.
- “Evaluating the Effects of a Coastal Spine: National-Level Economic Ripples and Effects on Flood Insurance.” Texas General Land Office. PI Wesley Highfield, co-PIs Ashley Ross-Wootton, Leonard Waterworth, Meri Davlasheridze, Samuel Brody, William Merrell Jr, and **David Retchless** Total award \$1,594,189, \$133,103.58 attributable to D. Retchless. Awarded December 2017 – December 2018.
- “A Survey on Natural Hazard Literacy.” Texas A&M University at Galveston Texas Comprehensive Research Fund. PI Ashley Ross, **David Retchless** co-PI, allotted 50% credit. Texas A&M University at Galveston. Total award \$8,000. Awarded May-August 2017.
- “Acquisition of high-resolution bathymetric and topographic surveying technology (HydroLite-DFX) for teaching and research.” Texas A&M University at Galveston Texas Comprehensive Research Fund. PI Pete van Hengstum, co-PIs Wes Highfield and **David Retchless**, allotted 33% credit. Total award \$15,450. Awarded May-August 2017.

## AWARDS, DISTINCTIONS AND FELLOWSHIPS

Society for Risk Analysis Student Travel Award (2012)  
Penn State University Graduate Fellowship (2009-2010)  
Penn State Anulf I Maun Graduate Fellowship (2009-2010)  
Phi Beta Kappa Society member (inducted 2004)  
Edward J. Cronin Award for excellence in writing in major (2004)

## PRESENTATIONS AND POSTERS

**Retchless, D.**, Wellbrock, N. B. “Cartographic Generalization for Mapping Coastal Change Hotspots: An Automated Buffer Series on Global Surface Water Data.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting (Virtual), October 15, 2021.

Thatcher, J., **Retchless, D.**, Thatcher, C., Jones, K. “Putting mapper on a map: cartographic visualizations of topological data analysis.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting (Virtual), October 14, 2021.

Wellbrock†, N. B., **Retchless, D.**, & Dellapenna, T. “Development of a Geospatial Process for the Analysis of Change in the Coastal, Embayed, and

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Estuarine Surface Waters of South Korea.” Virtual Symposium Presentation, Estuaries and the Anthropocene, Galveston, TX, May 21, 2021.

**Retchless, D.** “Election Mapping.” Panel discussant at the American Association of Geographers Annual Meeting (Virtual), April 7, 2021.

**Retchless, D.,** Wellbrock, N. B. “Cartographic Generalization for Quantifying Coastal Change: An Automated Buffer Series on Global Surface Water Data.” Presentation at American Association of Geographers Annual Meeting (Virtual), April 9, 2021.

**Retchless, D.** “New Geographies for Non-Euclidian Relational Spaces: Using MultiDimensional Scaling (MDS) to Map Ohio Electoral Districts,” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting (Virtual), October 16, 2020.

**Retchless, D.** “Reflections on Creating Storm Surge Hazardscapes: Comparing Cartographic and Ground-Level Perspectives on Flooding in the Galveston Bay Area.” Presentation at American Association of Geographers Annual Meeting (Virtual), April 7, 2020.

**Retchless, D.** “Mapping cross-scale impacts of storm surge events: Considerations for design and user-testing.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting, Tacoma, WA, October 18, 2019.

**Retchless, D.** “Map and augmented reality views of storm surge flooding: Results from pilot studies evaluating effects of perspective on risk perceptions and engagement.” Presentation at American Association of Geographers Annual Meeting, Washington, DC, April 3-7, 2019.

**Retchless, D.** Discussant for “Immersive II: Immersive Technologies for Natural Hazards and Climate Change Communication.” American Association of Geographers Annual Meeting, Washington, DC, April 3-7, 2019.

**Retchless, D.** and A. Ross. “Focus Group Evaluation of Web Map Tool for Exploring Economic Impacts of Storm Surge Flooding in Galveston Bay.” Presentation at Coastal GeoTools, Myrtle Beach, SC, February 11-14, 2019.

**Retchless, D.** and W. Mobley. “Economic Impacts of Hurricane Storm Surge in Galveston Bay at Local and National Scales.” Interactive demo for tools showcase at Coastal GeoTools, Myrtle Beach, SC, February 11-14, 2019.

**Retchless, D.** “Exploring the Links between Interaction and Affect: Results from a Study of Sea Level Rise Map Users.” Presentation at American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14, 2018.

**Retchless, D.** Discussant for “3D and Immersive Technologies for Geospatial Sciences III.” American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14, 2018.

**Retchless, D.** “Testing Augmented Reality Tools for Communicating Storm Surge and Encouraging Preparedness: A Survey of Texas A&M at Galveston Students.” Presentation at the American Meteorological Society Annual Meeting, Austin, TX, January 7-11, 2018.

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**Retchless, D.** “Map and augmented reality views of storm surge flooding: Methods for evaluating effects of perspective on risk perceptions and engagement.” Presentation at the American Association of Geographers Annual Meeting, Boston, MA, April 5-9, 2017.

**Retchless, D.** “Effects of map and augmented reality views of flood risk on concern about climate change.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting, Colorado Springs, CO, October 20, 2016.

**Retchless, D.** “Understanding Local Sea Level Rise Risk Perceptions and the Power of Maps to Change them: The Effects of Distance, Detail, and Doubt.” Presentation at the American Association of Geographers Annual Meeting, San Francisco, CA, March 29 - April 2, 2016.

**Retchless, D.** Discussant for “Risk Perception and Resilience Planning” session. American Association of Geographers Annual Meeting, San Francisco, CA, March 29 - April 2, 2016.

**Retchless, D.** “Sea Level Rise in Sarasota Bay.” Digital map poster presentation at the North American Cartographic Information Society (NACIS) Annual Meeting, Minneapolis, MN, October 14, 2015.

**Retchless, D., J. Mason, A. Klippel.** “Dimensions of Uncertainty Visualization Research.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting, Pittsburgh, PA, October 10, 2014.

**Retchless, D.** “How Do ‘Six Americas’ of Sarasota Students See Sea Level Rise Uncertainty? Preliminary Results a Survey of Map Users.” Presentation at the North American Cartographic Information Society (NACIS) Annual Meeting, Pittsburgh, PA, October 9, 2014.

Mason, J., **D. Retchless**, and A. Klippel. “Dimensions of Uncertainty: A Visual Classification of Geospatial Uncertainty Visualization Research.” *Visually-Supported Reasoning with Uncertainty Workshop at GIScience Conference*. Vienna, Austria, September 23rd, 2014.

**Retchless, D.** “How Do ‘Six Americas’ of Sarasota Students See Sea Level Rise Uncertainty? Methods for a Survey of Map Users.” Presentation at the American Association of Geographers Annual Meeting, Tampa, FL, April 21-25, 2014.

Smith, J., **D. Retchless**, C. Kinkeldey, and A. Klippel. “Beyond the Surface: Current Issues and Future Directions in Uncertainty Visualization Research.” *International Cartographic Conference*. Dresden, Germany, August 25th-30th, 2013.

**Retchless, D.** “The effect of cartographic representations of sea level rise uncertainty on the decision making process: a proposed methodology.” Presentation at the American Association of Geographers Annual Meeting, Los Angeles, CA, April 9-13, 2013.

**Retchless, D.** “Mapping climate change uncertainty: a pilot study of effects on risk perceptions and decision making.” Presentation at the Society for Risk Analysis Annual Meeting, San Francisco, CA, December 9-12, 2012.

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**Retchless, D.** “Mapping climate change uncertainty: effects on risk perceptions and decision making.” Poster presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, December 3-7, 2012.

**Retchless, D.** “Public perceptions of spatial analogs for climate change: a survey of centre region, Pennsylvania residents.” Presentation at the American Association of Geographers Annual Meeting, New York, NY, February 24-28, 2012.

**Retchless, D.** “Do spatial analogs improve climate communication: a survey of Centre Region, Pennsylvania residents.” Poster presentation at the American Association of Geographers Annual Meeting, Seattle, WA, April 12-16, 2011.

## PROFESSIONAL DEVELOPMENT

### *Administering and planning conference sessions*

- C. Fish and **D. Retchless**. Organizers for “Mapping Climate Change.” Paper session at American Association of Geographers Annual Meeting (Virtual), April 11, 2021.
- D. Retchless. Organizer for “Election Mapping.” Panel discussion session at American Association of Geographers Annual Meeting (Virtual), April 7, 2021.
- **D. Retchless**. Organizer and Chair for “Producing the Hazardscape: Mapping the Dynamic and Dangerous.” Paper session at American Association of Geographers Annual Meeting (Virtual), April 7, 2020.
- Simpson, M., J. Bernhard, and **D. Retchless**. Organizers for “Immersive II: Immersive Technologies for Natural Hazards and Climate Change Communication.” Paper session at American Association of Geographers Annual Meeting, Washington, DC, April 3-7, 2019.
- **Retchless, D.** Chair for “Mapping Climate Change II: Visualizing the Geographies of a Changing Climate.” Paper session at American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14, 2018.
- Berhardt, J., J. Shinn, and **D. Retchless**. Organizers for “Interdisciplinarity in Graduate Training in New Institutional Landscapes” session. Paper session at American Association of Geographers Annual Meeting, San Francisco, CA, March 29 - April 2, 2016.

### *Media exposure*

- “Galveston professor, researchers design flooding prediction app.” CBS-Houston (KHOU), 1/11/2018.  
<http://www.khou.com/mobile/article/tech/galveston-professor-researchers-design-flooding-prediction-app/285-507353833>

### *Workshops*

- Special Interest Meeting: 3D Nation. Coastal GeoTools, Myrtle Beach, SC, February 11, 2019.

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- Special Interest Meeting: Digital Coast Resources to Jump-Start Open Space Preservation Analysis for Community Rating System Credit. Coastal GeoTools, Myrtle Beach, SC, February 11, 2019.

## INVITED/GUEST LECTURES

**Invited Speaker:** “Developing and User-Testing Augmented Reality Tools for Storm Surge Risk,” Center for Texas Beaches and Shores Virtual Coffee Hour, Texas A&M University at Galveston, Galveston, TX, 22 October 2020.

**Invited Lecturer:** “Developing and User Testing Tools for Communicating Storm Surge Risk.” Institute for Sustainable Communities Speaker Series Luncheon, Texas A&M University, College Station, TX, 23 April 2019.

**Guest Lecturer:** “Communicating Coastal Hazards with Maps and Apps.” **Spring 2018 MARB/MARS 681 Graduate Seminar**, Texas A&M University at Galveston, Galveston, TX, 26 April 2018.

**Invited Lecturer:** “Cartography in Climate Change Communication: How design, audience, and scale affect public understanding and engagement.” Department of Geography Friday Seminar Series, Texas A&M University, 9 September 2016.

**Guest Lecturer:** “Basics of cartography and map design,” Introduction to GIS, UT Health Science Center Houston, 2 February 2016.

**Graduate Student Guest Lecturer:** Physical Geography (GEOG 010, Spring & Fall 2014), Applied Cartographic Design (GEOG 467, Spring 2014), Multivariate Mapping for Energy, Economic and Climate Data Using GIS (GEOG 560, Fall 2013), Natural Hazards (GEOG 333, Spring 2010).

## OTHER RESEARCH

**Mobile app developer and researcher**, mobile application for human sensor reports of nuisance flooding in Galveston and surrounding west-bay communities. 2021-present.

**Researcher and developer**, augmented reality application for Galveston storm surge flooding, self-funded/T3. 2016-present.

**Researcher and project lead**, Google Earth Engine analysis of global shoreline change, in partnership with Tim Dellapenna, self-funded, 2017-present.

**Developer and focus group testing facilitator**, Interactive web map for economic impacts of storm surge in Galveston Bay, funded by Texas General Land Office. 2018.

**Contributing researcher**, Hurricane Harvey Commission to Rebuild Texas Report. 2018.

**Researcher and interviewer**, Hurricane Harvey Rural Resilience, PI Ashley Ross, self-funded. 2017-2018.



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**Research Assistant**, classification of satellite imagery and analysis of interview data, NSF Human Social Dynamics Grant (PI: Dr. Karl Zimmerer), Geography, Penn State University. 2012-2014.

## TEACHING

### COURSES TAUGHT

**Professor:** GIS Use in Coastal Resources (MARS 625). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Spring 2020, 2019, 2018.

**Professor:** GIS-Based Spatial Analysis and Modeling (GEOG 665). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2021, 2020, 2019, 2018, 2017.

**Professor:** Introduction to GIS (MARS 325). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Spring 2021, 2020 and fall 2018, 2017, 2016, 2015.

**Professor:** Marine Geography (MARS 210). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Spring 2017, fall 2016, spring 2016.

**Co-Professor:** Marine Science Senior Seminar (MARS 481). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2017.

**Supervisor:** Undergraduate Research (MARS 491). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2020, Spring 2020, Spring 2019, Fall 2018, Fall 2017, Spring 2017, Fall 2016 (12 student-semesters).

**Supervisor:** Graduate Research (MARS 691). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2020, Summer 2020, Summer 2018, Spring 2018, Fall 2017, Summer 2017, Spring 2017, Fall 2016 (10 student-semesters).

**Supervisor:** Directed Studies (MARS 685). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2020 (1 student-semester).

**Supervisor:** Professional Study for MARM (MARS 693). Marine Sciences, Texas A&M University at Galveston, Galveston, TX. Fall 2018 (1 student-semester).

**Instructor:** Natural Hazards (GEOG 333). Geography, Penn State University, University Park, PA. Spring 2013.

**Instructional Materials Developer:** Coastal Processes, Hazards, and Society. Interdisciplinary Teaching about Earth for a Sustainable Future (InTeGrate), <http://serc.carleton.edu/integrate/>. 2013-2014.

**Teaching Assistant:** Cartography – Maps and Map Construction (GEOG 361). Geography, Penn State University, University Park, PA. Fall 2014.

**Teaching Assistant:** Human Dimensions of Global Warming (GEOG 438W). Geography, Penn State University, University Park, PA. Fall 2011.

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**Teaching Assistant:** Economic Geography (GEOG 126). Geography, Penn State University, University Park, PA. Fall 2011.

**Teaching Assistant:** Mapping Our Changing World (GEOG 160). Geography, Penn State University, University Park, PA. Spring 2011.

**Teaching Assistant:** Physical Geography (GEOG 010). Geography, Penn State University, University Park, PA. Fall 2010.

**Language Instructor:** NOVA Group, Osaka, Japan, 2004-2005.

## OTHER TEACHING

**Summer Undergraduate Mentor for External NSF REU.** Guided students in data analysis and visualization related to application of clustering algorithm to US Census data for identifying communities of interest to inform redistricting analysis. National Science Foundation REU: “Spatial Models and Electoral Districting” (Award Number: 1851696). PI Jim Thatcher (University of Washington), Co-PI Courtney Thatcher (University of Puget Sound). University of Washington Tacoma, Tacoma, WA. Summer 2019-2021.

## SERVICE

### PROFESSIONAL ORGANIZATIONS

**Past Chair, Cartography Specialty Group, American Association of Geographers.** April 2021-February 2022.

**Chair, Cartography Specialty Group, American Association of Geographers.** April 2020-April 2021.

**Vice Chair, Cartography Specialty Group, American Association of Geographers.** April 2019-April 2020.

### TEXAS A&M AT GALVESTON

**Member, TAMUG Honor Council.** 2021-present.

**Member, Art Subcommittee of the Council for Built Environment.** 2017-present.

**Presenter, TAMUG GIS Day. “Workshop | Google Earth Engine.”** November 11, 2020.

**Judge, Undergraduate TAMUG Student Research Symposium.** April 16, 2019; April 17, 2018.

### MARINE SCIENCE DEPARTMENT (TEXAS A&M AT GALVESTON)

**Member, Marine Resources Management Core Committee.** 2015-present.

- Attend meetings and suggest curriculum revisions

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**Member, MARS Geological Marine Science Visiting Instructional Faculty Search Committee.** 2020-2021.

**Member, MARS Scholarship and Awards Committee.** 2019, 2021.

**Member, Remote Sensing Search Committee.** 2016-2019.

**Lead, Recertification of MARS 210 for Core Curriculum and International and Cultural Diversity (ICD) credit.** 2018.

- Complete recertification forms, gather and submit student artifacts

**Co-Lead, ad-hoc committee for review of OCRE curriculum.** Spring 2017-Spring 2018.

**Member, GIS Librarian Search Committee.** Marine Sciences, Texas A&M University at Galveston, Galveston, TX. 2016-2018.

**Member, Academic Program Review Committee for Ocean and Coastal Resources.** Marine Sciences, Texas A&M University at Galveston, Galveston, TX. 2015-2017.

- Attend meetings and contribute to self-study report

## **GEOGRAPHY DEPARTMENT (TEXAS A&M)**

**Member, GIS Day Planning Committee.** Fall 2018, Fall 2017.

**Presenter, TAMU GIS Day. “Workshop | Google Earth Engine.”** College of Geosciences, Texas A&M University. College Station, TX. November 13, 2018.

**Exhibitor, TAMU GIS Day.** College of Geosciences, Texas A&M University. College Station, TX. November 15, 2017; November 18, 2015.

- Promote GIS activities of Marine Sciences department at outreach event

## **CENTERS, INSTITUTES, & LABS (TEXAS A&M)**

**Discovery Lead, Institute for Sustainable Communities.** Coastal Risk Reduction and Resilience Discovery Area. Spring 2019-present.

**Pilot project lead for VIVID Lab for Visceral Intersensory Visualization & Information Design.** Project title: Tailored Risk Communication in Virtual and Augmented Reality. Fall 2021-present.

## **GEOGRAPHY DEPARTMENT (PENN STATE)**

**President, Graduate Students in the Department of Geography.** 2012-2013.

- Organized graduate student town hall meetings, represented graduate students at faculty meetings, helped secure funding for graduate student travel, solicited volunteers for standing committees

**Administrative assistant for departmental transition to 5-year PhD program.** Spring 2012.

## **Curriculum Vitae**

- Drafted justification statement for program change, changes to graduate student handbook