

## SAMUEL DAVID BRODY

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### EDUCATION

- Ph.D.      **City and Regional Planning, University of North Carolina, Chapel Hill, NC, 2002.**  
Research focus: ecosystem management and collaborative environmental planning.  
Advisors: David Godschalk and Phil Berke.  
Dissertation: *A Model for Ecosystem Management Through Land-Use Planning: Understanding the Mosaic of Protection Across Ecological Systems in Florida.*
- M.S.      **Resource policy and behavior. University of Michigan, Ann Arbor, MI, 1996.**  
Emphasis on resource policy/planning and ecosystem management.
- Graduate      **Environmental Studies, University of Adelaide, Australia, 1994.**  
Diploma      Funded through Rotary International Graduate Scholarship.
- B.A.      **Environmental Studies and anthropology. Bowdoin College, Brunswick, ME, 1992.**  
*Summa Cum Laude, Phi Beta Kappa.*

### ACADEMIC POSITIONS

- 2020 to present      ***Director. The Institute for a Disaster Resilient Texas. Texas A&M University.***
- 2020 to present      ***Adjunct Professor, Rice University, Department of Civil and Environmental Engineering.***
- 2017 to 2019      ***Lead Technical Expert. Commission to Rebuild Texas.***
- 2009 to present      ***Professor, Texas A&M University, Galveston Campus. George P. Mitchell 40' Endowed Chair in Sustainable Coasts.***
- 2009 to 2020      ***Director. Center for Texas Beaches and Shores, Texas A&M University, Galveston, TX.***
- 2012 to 2016      ***Founding Director. Institute for Sustainable Coastal Communities, Galveston Campus.***
- 2008 to 2009      ***Acting Director. Hazard Reduction & Recovery Center. Texas A&M University, College Station, TX.***

2006 to 2009      *Associate Professor.* Texas A&M University, College Station, TX.

2005 to 2008      *Director.* Environmental Planning and Sustainability Research Unit, Texas A&M University, College Station, TX.

August to December 2007      *Visiting Scholar.* Florida Atlantic University, Department of Urban and Regional Planning, Fort Lauderdale, Florida.

2002 to 2006      *Assistant Professor.* Texas A&M University, College Station, TX.

1999 to 2001      *Project Director.* University of North Carolina, Center for Urban and Regional Studies, Chapel Hill, NC.

1999 to 2001      *Research Assistant.* University of North Carolina, Center for Urban & Regional Studies, Chapel Hill, NC.

1998      *Teaching Assistant.* University of North Carolina, Department of City and Regional Planning, Chapel Hill, NC

1997 to 1998      *Project Director.* Woods Hole Oceanographic Institution, Marine Policy Center, Woods Hole, MA.

1996 to 1997      *Research Assistant II.* University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI.

1996      *Research Assistant II.* University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI.

## **PROFESSIONAL EXPERIENCE**

1997 to present      *President.* Harpswell 10, Inc., Houston, TX.

2001 to 2003      *Consultant.* Washington/Baltimore Regional 2012 Coalition, Washington, D.C.

1997      *Coastal Policy Analyst.* Maine State Planning Office/ME Coastal Program, Augusta, ME.

1996 to 1997      *Consultant.* Gulf of Maine Council on the Marine Environment, Augusta, ME.

1995 to 1996      *Environmental Correspondent.* The Food Channel, Chicago, IL.

1995      *Research Analyst.* Planning Decisions, Inc., Portland, ME.

1993      *Park Ranger/Environmental Interpreter.* Canyonlands National Park, UT.

1992 to 1993      *Paralegal Specialist.* U.S. Department of Justice: Environmental Enforcement Section, Washington, D.C.

1991      *Planning Assistant.* Market Decisions, Inc., Portland, ME.

1990

*Research Assistant. The Chesapeake Bay Foundation, Annapolis, MD.*

## FELLOWSHIPS AND ASSOCIATIONS

2023 to present	<i>Member. The Philosophical Society of Washington</i>
2021 to present	<i>Senior Fellow. The Water Institute of the Gulf, Baton Rouge, LA.</i>
2016 to present	<i>Fellow. Kinder Institute, Rice University, Houston, TX.</i>
2008 to present	<i>Fellow. Institute for Science, Technology, and Public Policy (ISTPP), Texas A&amp;M University, College Station, TX.</i>
2006 to present	<i>Founding Fellow. Severe Storm Prediction, Education and Evacuation from Disaster (SSPEED) Center, Rice University, Houston, TX.</i>
2003 to present	<i>Faculty Affiliate. Hazards Reduction and Recovery Center (HRRC), Texas A&amp;M University, College Station, TX.</i>

## HONORS AND AWARDS

- 2023 Inducted into the Philosophical Society of Washington. Member. June 16, 2023.
- 2020 Journal of Flood Risk Management, Outstanding Paper Award 2020.
- 2019 National Alliance for Public Safety GIS (NAPSG) Foundation. Award for Excellence in Public Safety GIS.
- 2019 First Place, Thomas A. Philpott Excellence of Presentation Award, “The Flooded City: Adapting to the New Reality of Extreme Water Events in TX,” presented at the 2019 GeoGulf Convention in Houston, Texas.
- 2017 TX A&M Presidential Impact Fellow.
- 2016 TX A&M University Regents Professor.
- 2008 Best Paper Award, 2007, *Journal of the American Planning Association*.
- 2007 Award for Outstanding Research, College of Architecture, Texas A&M University, College Station, TX.
- 2004 College Outstanding Achievement Award, College of Architecture, Texas A&M University, College Station, TX.

- 2004 Nominated for the Presidential Early Career Award for Science and Engineering (PECASE), National Science Foundation.
- 2002 Graduate Recruitment Award, Department of Landscape Architecture and Urban Planning, Texas A&M University, College Station, TX.
- 2001 U.S. Environmental Protection Agency (EPA) Science to Achieve Results (STAR) Fellowship Conference Best Paper Award.
- 1997 United States Presidential Management Intern Award.
- 1995/1996 University of Michigan, School of Natural Resources and the Environment Merit Award.
- 1995 University of Adelaide Environmental Achievement Award.
- 1994 to  
1995 Rotary International Preserve the Planet Scholar.
- 1992 Bowdoin College – *Phi Beta Kappa*; James Bowdoin Scholar.

## RESEARCH EXPERIENCE

### EXTERNAL GRANTS AND CONTRACTS

- 2024 to 2028 **Principal Investigator.** TX General Land Office/ U.S. Department of Housing and Urban Development, \$30,000,000.  
Co-PIs: Wesley E. Highfield, Russell Blessing, Ali Mostafavi.  
Texas Disaster Information System.
- 2023 to 2026 **Co-Principal Investigator.** TX General Land Office, \$3,000,000.  
Developing Effective Flood Risk Communication Tools for Texas Communities.  
PI: Russell Blessing; Co-PIs: Andrew Juan, Wesley Highfield.
- 2022 to 2025 **Principal Investigator.** National Science Foundation, IRES program, Track 1, \$345,815.  
Flood Resilience Program - Integrated research experiences to foster understanding on how to increase resilience in flood-prone communities.  
Co-PIs: Yoonjeong Lee, Jens Figlus.
- 2021 to 2023 **Principal Investigator.** TX State Legislature, Governor's Office/American Rescue Plan Act (ARPA) Appropriation, \$1,150,000.  
Co-PIs: Wesley E. Highfield, Russell Blessing, William Mobley.  
Disaster Resilient Texas – Digital Flood Risk Infrastructure.
- 2021 to 2024 **Principal Investigator.** TX General Land Office/U.S. Department of Housing and Urban Development, \$8,500,000.  
Co-PIs: Wesley E. Highfield, Russell Blessing.  
Risk Tools for Flood Hazard Assessment: Implementation of the Texas Disaster Information System.
- 2021 to 2022 **Co-Principal Investigator.** National Science Foundation, SCC-CIVIC, \$383,591.  
Community-Centric Pre-Disaster Mitigation with Unmanned Aerial and Marine Systems.  
PI: Robin Murphy.
- 2021 to 2022 **Principal Investigator.** National Science Foundation, PIRE Award Supplement, \$124,481.  
Co-PIs: Wesley Highfield, Jens Figlus, Meri Davlasheridze, William Merrell.  
Coastal Flood Risk Reduction Program: Integrated, multi-scale approaches for understanding how to reduce vulnerability to damaging events.
- 2021 to 2024 **Co-Principal Investigator.** Texas Division of Emergency Management/FEMA, \$2,368,956.  
PI: Wesley Highfield. Co-PIs: Russell Blessing, William Mobley.
- 2021 to 2023 **Co-Principal Investigator.** Texas Division of Emergency Management, \$1,450,017.  
PI: Kayode Atoba; Co-PIs: Wesley Highfield, Russell Blessing, William Mobley.  
Texas Natural Hazard Risk Assessment.
- 2020 to 2021 **Principal Investigator.** TX General Land Office, \$1,500,000.  
Co-PIs: Wesley E. Highfield, Russell Blessing, William Mobley.  
Planning the Texas Disaster Information System.

- 2020 to 2023 **Co-Principal Investigator.** TX Department of Insurance, \$290,392.  
PI: Meri Dalvasheridze; Co-PI: Wesley E. Highfield.  
Insurance Market Incentive Study.
- 2019 to 2021 **Senior Advisor.** National Science Foundation, \$496,634.  
PI: Tom Cova; CoPIs: Timothy Collins, Terri Norton, Sara Grineski.  
NSF Hazard Enabling Program.
- 2019 to 2021 **Principal Investigator.** TX General Land Office, \$2,000,000.  
Measuring, Mapping and Managing Flood Risk: A Pilot Program in Southeast Texas.  
\*\*An addition \$1million was given by FEMA for National Academy Sciences (NAS) to participate in the project.
- 2018 to 2019 **Co-Principal Investigator.** Texas Comprehensive Research Fund, \$22,200.  
PI: Wesley Highfield and Brent Fortenberry.  
Interdisciplinary project to develop a rapid, accurate, and scalable digital methodology to determine building (first floor) elevation survey for hazard mitigation planning efforts.
- 2018 to 2019 **Co-Investigator.** National Science Foundation, \$100,000.  
PI: Daniel Cox, University of Oregon.  
NSF Engineering Research Center for Adaptive and Resilient Coastal Infrastructure (CARCI).
- 2017 to 2019 **Co-Principal Investigator.** TX General Land Office, \$1,595,189.  
PI: Wesley Highfield.  
Evaluating the Effects of a Coastal Spine: National-Level Economic Ripples and Effects on Flood Insurance.
- 2017 **Co-Principal Investigator.** TX General Land Office, \$168,627.  
PI: Wesley Highfield.  
Identifying the future costs of floods in the Houston-Galveston Area.
- 2016 to 2017 **Principal Investigator.** Kempner Foundation, \$10,000.  
Combining Environmental Protection and Flood Mitigation on the Texas Coast: A Proactive Land Acquisition Framework.
- 2016 to 2017 **Principal Investigator.** Wortham Foundation, \$26,315.  
Coastal Spine Placement on the Upper Texas Coast.
- 2015 to 2022 **Principal Investigator.** National Science Foundation, \$3,998,336.  
Co-PIs: Wesley Highfield, Jens Figlus, Meri Davlasheridze, William Merrell.  
Coastal Flood Risk Reduction Program: Integrated, multi-scale approaches for understanding how to reduce vulnerability to damaging events.  
NSF Program for International Research and Education.
- 2014 to 2016 **Principal Investigator.** TX Commission on Environmental Quality, \$173,228.  
Galveston Bay Estuary Program Status and Trends Maintenance Project.
- 2014 to 2016 **Co-Principal Investigator.** National Science Foundation, \$349,725.  
PI: Deborah Thomas; Co-PI: Brian Gerber.

Enabling the Next Generation of Hazards and Disasters Researchers:  
An Education and Training Proposal.

- 2014 to 2015 **Principal Investigator.** West Galveston Island Homeowner's Association, \$50,000. Co-PI: Wesley Highfield.  
An Integrated Assessment of Flood Risk Reduction on the West End of Galveston Island.
- 2013 to 2016 **Co-Principal Investigator.** Rice University Shell Center for Sustainability, \$207,000. PI: Jeffrey Nittrouer; Co-PIs: Jaimie Padgett, Philip Bedient.  
The stress nexus of coastlines: Population development, infrastructure security, and morphological dynamics of the Upper Texas Gulf Coast.
- 2014 to 2014 **Principal Investigator.** Houston Advanced Research Center/USFWS, \$132,146. Co-PI: Wesley Highfield.  
Survey of preferences for Wave-Based Flood Risk Reduction Strategies in Harris County, TX.
- 2013 **Principal Investigator.** National Science Foundation, \$27,230.  
Flood Risk Reduction Colloquium with Delft University, Netherlands.
- 2012 to 2013 **Co-Principal Investigator.** Federal Transportation Agency, \$146,000. PI: Linda Cherrington.  
Transit Climate Change Adaptation Assessment Pilots for the Gulf Coast Region.
- 2011 to 2013 **Principal Investigator.** National Science Foundation, \$345,891. Co-PIs: Wesley Highfield, Michael Lindell.  
Examining the 100-year Floodplain as a Metric of Risk, Loss, and Household Adjustment.
- 2011 to 2013 **Co-Principal Investigator.** NASA, \$398,857. PI: Patrick Louchouart; Co-PIs: Wesley Highfield, Anna Armitage.  
Examining the Relationship Between Land Use Change, Wetland Alteration, and Carbon Sequestration in the Gulf of Mexico.
- 2011 **Co-Principal Investigator.** TX Council on Environmental Quality, \$136,000. PI: Wesley Highfield.  
Development of an OSSF (Failing on-site septic sewage facilities) Optimization Model for the Dickinson Bayou Watershed.
- 2010 to 2011 **Co-Principal Investigator.** Montgomery County, TX, \$141,879. PI: George Rogers; CO-PIs: Georgianne W. Moore, Jesse Saginore.  
Economic Impact of Lake-Level Reductions on Lake Conroe: Lake Area Property Values, Property Tax Revenues, and Sales Tax Revenues.
- 2009 to 2011 **Principal Investigator.** Houston Advanced Research Center, \$80,000. Co-PI: Wesley E. Highfield.  
Natural and Human Hydrologic Interactions: Development of an Integrated Conceptual Model and Empirical Testing in the Greater Houston –Galveston Region.
- 2009 to 2011 **Co-Principal Investigator.** National Science Foundation, \$374,036. PI: Shannon Van Zandt; Co-PIs: Wesley E. Highfield, Yu Xiao, Walter Peacock.  
Developing a Living Laboratory for Examining Community Resiliency and Recovery After Disaster.

- 2008 to 2009 **Senior Personnel.** National Science Foundation, SGER Award, \$144,674. PI: Shannon Van Zandt; Co-PIs: Wesley E. Highfield, Yu Xiao; Senior Personnel: Walter Peacock, Michael Lindell, Carla Prater. Social Vulnerability and Urban Development Patterns: Impacts on Community Resilience and Recovery.
- 2008 to 2010 **Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Sea Grant Award, \$291,274. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi, June Martin. A Coastal Communities Planning Atlas for Decision Makers and Local Residents: Phase II.
- 2007 to 2009 **Co-Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Coastal Services Center, \$299,922. PI: Walter Peacock; Co-PIs: Sammy Zahran, Robert Harris, William Seitz, William Merrell, Arnold Vedlitz. Advancing the Resilience of Coastal Localities: Developing, Implementing and Sustaining the Use of Coastal Resilience Indicators.
- 2006 to 2012 **Co-Principal Investigator.** Coastal Coordination Council/TX GLO/NOAA, \$744,000. PI: Walter Peacock; Co-PIs: Doug Wunneburger, Forster Ndubisi, June Martin, Michael Lindell, Carla Prater. Status and Trends of Coastal Vulnerability to Natural Hazards. Renewable each year for six years.
- 2007 to 2008 **Co-Principal Investigator.** Lower River Colorado Authority (LCRA), \$98,404. PI: Gerard Kyle; Co-PIs: Scott Schafer, James Jeffries, Kokel-Oberrender-Wood Appraisals. Analysis of socioeconomic and land use characteristics for LCRA properties.
- 2006 to 2009 **Principal Investigator.** National Park Service, Cooperative Agreement, \$378,946. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi. Development of a Land Use Change Early Warning System.
- 2006 to 2008 **Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Sea Grant Award, \$388,398. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi, June Martin. Developing a Coastal Communities Planning Atlas as an Educational Tool for Decision Makers and Local Residents.
- 2006 to 2008 **Co-Principal Investigator.** USDA, Program of Research on the Economics of Invasive Species Management (PREISM), \$190,956. PI: David Zilberman; CO-PI: Sean B. Cash. Border Enforcement, Importer Behavior, and Trade-Related Invasive Species Risk.
- 2005 to 2006 **Co-Principal Investigator.** National Science Foundation (NSF), SGER, \$96,638. PI: Doug Shaw; Co-PIs: William Neilson, Richard Woodward, Mary Riddel. Perceived Risks and Willingness to Pay for Hurricane Protection.
- 2005 to 2008 **Co-Principal Investigator.** National Science Foundation (NSF), \$750,944. PI: Frederic Park; Co-PIs: Donald House, Steven Smith, Peter Stiller. MRI: Development of Spatially Immersive Visualization Facilities.
- 2004 to 2010 **Principal Investigator.** National Science Foundation (NSF) CAREER Award, \$521,384 (including 3 REU supplements).



Modeling Watershed Flooding and Adaptive Flood Management: An Integrative Plan for Research, Teaching, and Learning. A five-year research project examining the relationship between the development of wetlands and coastal watershed flooding.

- 2004 to 2005 **Researcher.** Department of Homeland Security Office of State and Local Government Coordination and Preparedness, \$89,235.  
Identifying Best Practices for Systems and Equipment Procurement Decisions in Emergency-Responder Organizations.
- 1999 to 2001 **Principal Investigator.** U.S. EPA Science to Achieve Results (STAR) Fellowship, \$100,000.  
Researched environmental impacts of local policies in Florida. Developed methods to evaluate and spatially analyze plan quality using geographic information systems.
- 2000 to 2001 **Principal Investigator.** Steinwachs Family Foundation, \$5,000.  
Collaborative Ecosystem Planning in South Florida.
- 1997 to 1999 **Principal Investigator.** Gulf of Maine Council on the Marine Environment, \$25,000.  
Examining a Network of Coastal and Marine Protected Areas in the Gulf of Maine as an Ecosystem Approach to Management.
- 1998 to 1999 **Principal Investigator.** U.S. NOAA, Office of Ocean and Coastal Resource Management, \$15,000.  
Using Geographic Information Systems to Map and Analyze Existing Coastal and Marine Protected Areas in the Gulf of Maine.
- 1996 to 1997 **Principal Investigator.** State of Maine, Executive Office, State Planning Office, \$5,000.  
Examining Stakeholder Perceptions of Marine Protected Areas.

## INTERNAL GRANTS

- 2021 to 2023 **Principal Investigator.** Texas A&M University System, Chancellor's Office, \$571,080.  
Navasota River Flood Project.
- 2021 to 2024 **Principal Investigator.** Texas A&M University, Global Engagement Grant \$50,000.  
Flood Resilient Aggies Program (FRAP).  
Co-PIs: Yoonjeong Lee, Jens Figlus.
- 2020 to 2023 **Co-Principal Investigator.** Texas A&M University, \$1,000,000.  
X-Grant- Integrating Machine and Human Intelligence to Augment Flood Resilience.  
PI: Ali Mostafavi; Co-PIs: Xia Hu, Michelle Meyer.
- 2017 to 2018 **Principal Investigator.** Texas A&M University System, Chancellor's Office, \$750,000.  
Commission to Rebuild Texas Future Proofing Project.

- 2016 to 2019 **Principal Investigator.** Texas A&M University President's Office, \$1,000,000. Support for the Center for Texas Beaches and Shores.
- 2016 to 2019 **Principal Investigator.** Texas A&M University Institute for Advanced Study Faculty Fellowship, \$260,000.
- 2014 to 2017 **Co-Principal Investigator.** Texas A&M University System, Tier One Program, \$300,000.  
PI: Jean Bowman.  
Development of a Multidisciplinary Climate Change Program.
- 2004 to 2005 **Co-Principal Investigator.** College Research and Interdisciplinary Council (CRIC) Research Grant, College of Architecture, Texas A&M University. \$7,500.  
Understanding Organizational and Technological Capabilities in Public and Private Planning Agencies in Texas for Applications of GIS/PSS to Practice and Decision Making.
- 2002 **Principal Investigator.** Center for Teaching Excellence, Texas A&M University, Teaching Incentive Grant, \$4,000.  
Development of Case Studies in Environmental Dispute Resolution: Integrating teaching, research, and learning. A grant to publish a book of student-written case studies in dispute resolution to be used as a teaching aid in dispute resolution/conflict management courses throughout the University and the United States.
- 2002 to 2003 **Principal Investigator.** College Research and Interdisciplinary Council (CRIC) Grant, College of Architecture, Texas A&M University. \$5,000.  
Examining the Role of Resource-Based Industries in Ecosystem Approaches to Management.
- 2002 **Collaborator.** Vice President for Research Office's Travel Grant, Texas A&M University, \$1,500.  
Identifying Opportunities for Coastal Watershed Management in Bordeaux, France: A Collaborative Initiative. This grant provided funding to travel to Bordeaux and initiate a collaborative research project with Bordeaux 1 University on Coastal Watershed Management.

## FELLOWSHIPS AND SCHOLARSHIPS

- 2021 to 2024 **Senior Fellowship.** The Water Institute of the Gulf, Baton Rouge, LA.
- 2003 to 2004 National Science Foundation. Hazards Enabling Fellowship. Three trips to develop research proposals (Woods Hole, MA, Chapel Hill, NC, and Estes Park, CO) and a \$3,000 stipend.
- 2001 to 2002 University of North Carolina, Chapel Hill, NC. Dissertation Fellowship, \$17,000.  
A model for Ecosystem Approaches to Management.

- 1999 to 2002 EPA Science to Achieve Results (STAR) Doctoral Fellowship, \$100,000.  
A Model for Ecosystem Management Through Land Use Planning: Implementing the Principles of Ecosystem Management in Florida.
- 1994 Rotary Ambassadorial Graduate Scholarship, \$34,000.  
Graduate study at the University of Adelaide, Australia.

## REFEREED JOURNAL ARTICLES

- \*Diaz, N. D., Lee, Y., Kothuis, B. L., Pagán-Trinidad, I., Jonkman, S. N., & Brody, S. D. (2024). Mapping the Flood Vulnerability of Residential Structures: Cases from The Netherlands, Puerto Rico, and the United States. *Geosciences* 14(4): 109.
- Lee, C. C., Huang, L., Antolini, F., Garcia, M., Juan, A., Brody, S. D., & Mostafavi, A. (2024). Predicting peak inundation depths with a physics informed machine learning model. *Scientific Reports* 14(1):14826.
- Stephens, K.K., Varela Castro, S., Xu, Y., Juan, A., \*Diaz, N., +Blessing, R. and Brody, S.D. (2024). Rectifying a flood data desert one step at a time: a co-created, engaged scholarship approach. *Journal of Applied Communication Research* 52(3): 421–434.
- Stephens, K. K., +Blessing, R., Tasuji, T., McGlone, M. S., +Stearns, L. N., +Lee, Y., & Brody, S. D. (2024). Investigating ways to better communicate flood risk: the tight coupling of perceived flood map usability and accuracy. *Environmental Hazards* 23(1): 92-111.
- Ho, Y. H., Lee, C. C., \*Diaz, N., Brody, S., & Mostafavi, A. (2023). Elev-vision: Automated lowest floor elevation estimation from segmenting street view images. *ACM Journal on Computing and Sustainable Societies* 2(2), Article 26: 1-18.
- \*Yuan, F., Farahmand, H., Blessing, R., Brody, S., & Mostafavi, A. (2023). Unveiling Vulnerability and Inequality in Disrupted Access to Dialysis Centers During Urban Flooding. *Transportation Research Part D*. 125:103920.
- Esparza, M., Farahmand, H., Brody, S., & Mostafavi, A. (2023). Examining data imbalance in crowdsourced reports for improving flash flood situational awareness. *International Journal of Disaster Risk Reduction* 95: 103825.
- \*Yuan, F., Lee, C.C., +Mobley, W., Farahmand, H., Xu, Y., +Blessing, R., Dong, S., Mostafavi, A. and Brody, S.D. (2023). Predicting road flooding risk with crowdsourced reports and fine-grained traffic data. *Computational Urban Science* 3(1): 15.
- \*Billman, M., +Atoba, K., Thompson, C., & Brody, S. (2023). How about Now? Changes in Risk Perception before and after Hurricane Irma. *Sustainability* 15(9): 7680.
- de Ruig, L. T., Haer, T., de Moel, H., Brody, S. D., Botzen, W. J., Czajkowski, J., & Aerts, J. C. (2022). How the USA can benefit from risk-based premiums combined with flood protection. *Nature Climate Change* 12(11): 995-998.

- de Ruig, L. T., Haer, T., de Moel, H., Brody, S. D., Botzen, W. J., Czajkowski, J., & Aerts, J. C. (2022). Climate-proofing the National Flood Insurance Program. *Nature Climate Change* 12(11): 975-976.
- \*Diaz, N. D., +Highfield, W. E., Brody, S. D., & Fortenberry, B. R. (2022). Deriving First Floor Elevations within Residential Communities Located in Galveston Using UAS Based Data. *Drones* 6(4): 81.
- +Atoba, K., Newman, G., Brody, S., Highfield, W., Kim, Y., Juan, A. (2021). Buy them out before they are built: Evaluating the proactive acquisition of vacant land in flood-prone areas. *Environmental Conservation* 48 (2): 118-126.
- +Grover, H., Lindell, M. K., Brody, S. D., & +Highfield, W. E. (2021). Correlates of flood hazard adjustment adoption in four coastal communities. *International Journal of Disaster Risk Reduction* 68:102728.
- +Mobley, W., +Sebastian, A., +Blessing, R., +Highfield, W. E., Stearns, L., & Brody, S. D. (2021). Quantification of continuous flood hazard using random forest classification and flood insurance claims at large spatial scales: a pilot study in southeast Texas. *Natural Hazards and Earth System Sciences*, 21(2): 807-822.
- \*Rainey, J. L., Brody, S. D., Galloway, G. E., & +Highfield, W. E. (2021). Assessment of the growing threat of urban flooding: a case study of a national survey. *Urban Water Journal*, 18(5): 375-381.
- Drakes, Oronde, Tate, E., \*Rainey, J., Brody, S.D. (2021). Social vulnerability and short-term disaster assistance in the United States. *International Journal of Disaster Risk Reduction* 53.
- \*Min, Sohn Won, Brody, S.D., Kim, J.H., Li, M.L. (2020). How Effective Are Drainage Systems in Mitigating Flood Losses? *Cities*, 107, 102917.
- +Atoba, K., Brody, S., Highfield, W., Shepherd, C., & Verdone L. (2020). Strategic Property Buyouts to Enhance Flood Resilience: A Multi-Criteria Spatial Approach for Incorporating Ecological Values into the Selection Process. *Environmental Hazards*. DOI: 10.1080/17477891.2020.1771251. 1-19.
- Dai, Zhi-jun, Jinzhou, Du, +Zhenghong, Tang, Suying, Ou, Brody Samuel, Wen, Wei, Jinjuan, Gao. (2019). Detection of linkage between solar and lunar cycles and runoff of the world's large rivers. *Earth and Space Science*. 6(6): 914-930. DOI: 10.1029/2018EA000541.
- \*Gori, Avantika, +Blessing, R. Juan, A., Brody, S., Bedient, P. (2019). Characterizing urbanization impacts on floodplain through integrated land use, hydrologic, and hydraulic modeling. *Journal of Hydrology* 568: 82-95.
- \*Blessing, Russell, Brody, S.D., Highfield, W.E. (2019). Valuing Floodplain Protection and Avoidance in a Coastal Watershed. *Disasters* 43(4): 906-925.

- +Mobley, W., +Sebastian, A., Highfield, W., & Brody, S. D. (2019). Estimating Flood Extent during Hurricane Harvey using Maximum Entropy to build a Hazard Distribution Model. *Journal of Flood Risk Management* 12(S1): e12549.
- \*van Berchum, E. C., \*Mobley, W., Jonkman, S. N., Timmermans, J. S., Kwakkel, J. H., & Brody, S. D. (2019). Evaluation of flood risk reduction strategies through combinations of interventions. *Journal of Flood Risk Management* 12(S2): e12506, doi:10.1111/jfr3.12506.
- Davlasheridze, Meri, \*Atoba, K.O., Brody, S.D., +Highfield, W.E., Merrell, W., Ebersole, B., Purdue, A., Gilmer, R. (2019). Economic Impacts of Storm Surge and the Cost-Benefit Analysis of a Coastal Spine as The Surge Mitigation Strategy in Houston-Galveston Area of Texas in the United States. *Mitigation and Adaptation Strategies for Global Change* 24: 329-354, <https://doi.org/10.1007/s11027-018-9814-z>.
- +Highfield, W.E., Brody, S.D., Shepard, C. (2018). The effects of estuarine wetlands on flood losses associated with storm surge. *Ocean & Coastal Management* 157: 50-55.
- \*Walters, Helen, Brody, S.D., +Highfield, W.E. (2018). Examining the relationship between development patterns and total phosphorus in the Galveston Bay Estuary. *Environmental Science and Policy* 88: 10-16.
- \*Atoba, Kayode, Brody, S.D., +Highfield, W.E., Merrell, W.J. (2018). Estimating Residential Property Loss Reduction from a Proposed Coastal Barrier System in the Houston-Galveston Region. *Natural Hazards Review* 19(3): 05018006.
- Brody, S.D., \*Sebastian, A., \*Blessing, R., Bedient, P. (2018). Case study results from southeast Houston, Texas: identifying the impacts of residential location on flood risk and loss. *Journal of Flood Risk Management* 11, S110-S120, DOI:10.1111/jfr3.12184.
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- \*Reja, Md, Brody, S.D., +Highfield, W.E., Newman, G.D. (2017). Hurricane Recovery and Ecological Resilience: Measuring the impacts of wetland alteration post Hurricane Ike on the upper TX coast. *Environmental Management*. 60(6), 1116-1126.
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## CONFERENCE PROCEEDINGS

- Stephens, K. K., Blessing, R., Tasuji, T., McGlone, M., Stearns, L. N., Lee, Y., & Brody, S. D. (2023). Investigating ways to better communicate flood risk: The tight coupling of perceived flood map usability and accuracy. Paper presented at *the International Communication Association (ICA) Conference*, Toronto, Canada.
- Brody, S.D. & Wesley E. Highfield. (2006). Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida: Causes, Consequences, and Policy Implications. In *Proceedings for the International Disaster Reduction Conference*. August 27-September 1, Davos, Switzerland. Davos: Swiss Federal Research Institute.



Brody, S.D., Carrasco, V. & Highfield, W. (2003). Evaluating Ecosystem Management Capabilities at the Local Level in Florida: A Policy Gap Analysis Using Geographic Information Systems. In *The Network Society: The New Context for Planning*. Proceedings from the ACSP-AESOP Third Joint Congress, July 8-12, 2003, Leuven, Belgium.

Brody, S.D. & Nicholson, B. (1999). Marine Protected Areas in the Gulf of Maine: Providing a Framework for an Ecosystem Approach to Management. In David Harmon (ed.), *On the Frontiers of Conservation: Proceedings of the Tenth Conference on Research and Resource Management in Parks and on Public Lands*. George Wright Society, Hancock, MI.

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## **INVITED LECTURES, SEMINARS, and WORKSHOPS**

2023 Disaster Resilience in a Changing World: How Data Analytics Can Help Us Make Better Decisions. Consular Corps of Houston. December 11, 2023. Houston, TX.

2023 Coastal Flooding and the Built Environment: Causes, Consequences, and Policy Implications. The Cascadia Coastlines and Peoples Hazards Research Hub and Cascadia Coastal Hazards Research Coordination Network. December 7, 2023. Virtual.

2023 The Growing Threat of Urban Flooding: Causes, Consequences, and Planning Implications. Research for Community Resilience Event Series, University of Washington, Institute of Hazard Mitigation Planning and Research, Department of Urban Planning and Design. October 23, 2023. Seattle, WA.

2023 Buyers Be-Where: Web-Based Natural Hazard Risk Communication Tool for Southeast Texas. Houston Realtors Information Service. Board of Directors Meeting. August 21, 2023. Houston, TX.

2023 Institute for a Disaster Resilient Texas. San Antonio River Authority. August 3, 2023. Virtual.

2023 Protecting America's Coasts from Flooding in the Face of Rapid Climate and Land Use Change: A Case Study of the TX Coastal Spine Project. Philosophical Society of Washington, Cosmos Club. June 16, 2023. Washington, DC.

2023 Buyers Be-where: Web-Based Natural Hazard Risk Communication Tool for Southeast Texas. Using Data to Help Disclose Flood Risk. FEMA Region 6 Floodplain Management Webinar. May 2, 2023. Virtual.

2023 Living in the Eye of the Storm: How Texas became one of the most flood resilient states in the USA. London School of Economics (LSE). March 13, 2023. London, England.

2023 Storm Surge Protection in the Upper TX Coast: The Ike Dike Proposal. American Association of University Women (AAUW). February 13, 2023. Houston, TX.

- 2023 Institute for a Disaster Resilient Texas. TDEM Regional Workshop. February 8, 2023. Tarleton State University, Fort Worth Texas.
- 2022 Protecting Open Spaces: A Pathway to Flood Resilient Coastal Communities. Keynote Speech. National Partner Network Annual Meeting. December 1, 2022. Galveston, TX.
- 2022 Urban Flooding and the Built Environment: A Texas Perspective. When it rains, it pours: a dialogue on urban flooding across the U.S. APA Hazard Mitigation and Disaster Recovery Planning Division. October 28, 2022. Virtual.
- 2022 Coastal Protection Roundtable and book presentation for HMQ Maxima of the Netherlands. Moderator. Netherlands Royal Working Visit- Program Water Expert Delegation. September 9, 2022. Minute Maid Park, Houston TX.
- 2022 The Flooded City: Adapting to the New Reality of Extreme Water Events in Houston TX. Keynote presentation. American Institute of Chemical Engineers. South Texas Local Section. September 1, 2022. Pasadena, TX.
- 2022 Reducing Increasing Flood Losses through the NFIP Reauthorization. Hearing on Reauthorization of the National Flood Insurance Program: Protecting Communities from Flood Risk. U.S. Senate Committee on Banking, Housing, and Urban Affairs. June 16, 2022. Washington, D.C.
- 2022 Predicting Land Use/Land Cover Change on the Texas Coast: Assessing Flood Resilience. COMMUNITY-CENTRIC PRE-DISASTER MITIGATION WITH UNMANNED AERIAL & MARINE SYSTEMS Workshop. January 28, 2022. Disaster City, TX A&M University, College Station, TX.
- 2021 From Data to Decisions: How university researchers are making flood risk policy in Texas. Bush School of Government and Public Service. December 3, 2021. College Station, TX.
- 2021 The Built Environment and Flood Resilience: causes, consequences, and management strategies. Stanford Urban Resilience Initiative/ Civil and Environmental Engineering Department. Stanford University. October 27, 2021. Virtual.
- 2021 Institute for a Disaster Resilient Texas: Current and future directions. International Maritime Advisory Committee, Bay Area Houston Economic Partnership. October 21, 2021. Clear Lake, TX.
- 2021 Decision Support Tools for Resilience: Texas Disaster Information System Overview. Louisiana Watershed Initiative. May 27, 2021. Virtual.
- 2021 IDRT and TDIS Program Overview. TX Floodplain Managers Association, Annual Meeting. April 13, 2021. Virtual.
- 2020 Protecting Open Spaces: A pathway to flood resilient communities. 2020 Texas Gulf Coast Resilience through Nature Based Solutions Workshop. Dow Chemical and the Nature Conservancy. December 8, 2020. Virtual.

- 2020 Mitigating Hazard Risks and Impacts through Web-based Communication Tools. Federal Insurance Directorate R&D Council's Subcommittee on Academic Engagement. October 23, 2020. Virtual.
- 2020 The Texas Disaster Information System. NSF CoPe Workshop: Coastal Observations and Modeling Systems. Florida International University, Sea Level Solutions Center. September 8, 2020. Virtual.
- 2020 Communicating Flood Risk to Reduce Adverse Impact of Extreme Events. Department of Homeland Security, Flood APEX Meeting. August 27, 2020. Virtual.
- 2020 Institute for a Disaster Resilient TX. Interagency Flood Risk Management (InFRM) Academic Council Meeting. Center for Space Research (CSR), University of Texas. February 14, 2020, Austin, TX.
- 2020 Institute for a Disaster Resilient TX. TX Interagency Coordination Committee, Community Development and Revitalization (CDR), TX General Land Office. February 13, 2020, Austin, TX.
- 2020 Lessons Learned from Hurricane Harvey: Implementing State Policy. Pew Charitable Trusts, State Resilience Planning Group. February 4, 2020, Online Webinar.
- 2020 The Response to Hurricane Harvey: Moving toward flood resiliency. River Oaks Country Club. January 14, 2020, Houston, TX.
- 2019 Measuring, Mapping, & Managing Flood Risk: A Pilot Program in Southeast Texas. Center for Water and Environment, University of Texas. July 30, 2019, Austin, TX.
- 2019 Buyers Be-Where as a tool for risk assessment. Houston-Denmark Resilient Cities Collaboration workshop. May 23, 2019, Houston, TX.
- 2019 Nature-Based Infrastructure and Flood Risk Reduction. Regional Development/Engineering Land Use Forum. Houston Wilderness. April 11, 2019, Houston, TX.
- 2019 House Homeland Security Committee hearing Testimony. March 19, 2019, State Capital, Austin TX.
- 2019 The Growing Threat of Urban Flooding. With Gerry Galloway. Department of Housing and Urban Development. February 27, 2019, Washington, DC.
- 2019 The Growing Threat of Urban Flooding. With Gerry Galloway. USACE Office of Contingency Operations. February 26, 2019, Washington, DC.
- 2019 The Eye of the Storm: Report of the Governor's Commission to Rebuild Texas. Rijkswaterstaat: Directorate-General for Public Works and Water Management. January 8, 2019, Lelystad, Netherlands.
- 2018 The Eye of the Storm: Report of the Governor's Commission to Rebuild Texas. Legislative Briefing, Texas State Capital. December 13, 2018, Austin, TX.

- 2018 The Growing Threat of Urban Flooding: A National Challenge. Engineering Resilience seminar. University of Maryland. November 28, 2018, College Park, MD.
- 2018 The Growing Threat of Urban Flooding: A National Challenge. With Gerry Galloway. Congressional Staff Briefing, U.S. Capital. November 28, 2018, Washington, DC.
- 2018 Protecting Open Spaces: A pathway to flood-resilient communities. Keynote speech. Bayou Land Conservancy Annual Gala. November 10, 2018, Spring, TX.
- 2018 The Flooded City: Adapting to the New Reality of Extreme Water Events in TX. Mitchell Society Lecture Series. Texas A&M University, Galveston Campus. October 19, 2018, Galveston, TX.
- 2018 Assessing the Value of Protecting Naturally Occurring Wetlands for Flood Risk Reduction. Interagency Coastal Wetland Workgroup Meeting, EPA. October 18, 2018, Washington, DC.
- 2018 Flood Risk Reduction Research: Where, Why, and How. Webinar, ASFP Foundation Fellows meeting. October 16, 2018.
- 2018 Flood Risk Reduction Research: Causes, Consequences, and Policy Implications. Planning Information Exchange Webinar: Current Research Topics in Disasters, Hazard Mitigation, and Resilience. APA/ASFP. October 9, 2018.
- 2018 Houston's Vulnerability to Floods and Extreme Weather. Rice University Glasscock School of Continuing Studies. After the Flood: Lessons from Hurricane Harvey series. Rice University, October 4, 2018, Houston, TX.
- 2018 The Flooded City: Adapting to the New Reality of Extreme Water Events in TX. Galveston Bay Foundation members meeting. Lone Star Flight Museum. October 3, 2018, Houston TX.
- 2018 A Comprehensive Framework for Coastal Flood Risk Reduction: Charting a Path Towards Resiliency. The Adaptation Blueprint: Designing a New Policy Agenda for the Coast workshop. University of Pennsylvania, Wharton School. September 28, 2018, Philadelphia, PA.
- 2018 Rebuild Texas Report Highlights. Greater Houston Partnership. August 23, 2018, Houston, TX.
- 2018 Flood Impacts and the Built Environment in the U.S.: Lessons Learned from Hurricane Harvey. Multi-Layered Flood Safety: The Netherlands meets the United States. Deltas, Infrastructure, and Mobility Initiative, Delft University. May 22, 2018. Delft, Netherlands.
- 2018 The Importance of Comprehensive Flood Risk Management: Lessons learned from Hurricane Harvey. Keynote. INTERAGENCY FLOOD RISK MANAGEMENT COMMUNITY OF PRACTICE TRAINING Seminar. USACE. May 1, 2018, Indianapolis, IN.
- 2018 The Flooded Landscape: Adapting to the New Reality of Extreme Water Events in Houston. Museum of Natural Science. Brown Bag Series. April 16, 2018, Houston, TX.

- 2018 The Flooded City: Adapting to the New Reality of Extreme Water Events in Texas. TX A&M University, Legacy Society Lecture. April 13, 2018. College Station, TX.
- 2018 Reducing Flood Risk and Property Loss on the Upper Texas Coast  
A Multi-Scale Perspective. UH Clear Lake. March 21, 2018. Clear Lake, Houston.
- 2017 The Path to Professorship. The Emery School. December 5, 2017, Houston, TX.
- 2017 A Flood-Resilient TX Coast: how to reduce flood losses before the next major storm.  
Galveston Funders Roundtable. December 4, 2017, Galveston, TX.
- 2017 Avoiding Flood Losses with a Surge Suppression System on the Upper Texas Coast.  
American Shore and Beach Preservation Association Texas Chapter Annual Meeting.  
August 17, Galveston, TX.
- 2017 Planning for Carbon Dioxide Removal: The Role of Coastal Wetlands Management.  
National Academies of Sciences. Workshop on Blue Carbon: July 26, 2017, woods hole,  
MA.
- 2017 Urban Flooding: A growing national challenge. With Josh Gunn and Jayton Rainey.  
National Academies of Sciences. Study on Urban Flooding. Houston, TX, July 6, 2017.
- 2017 Fighting with floods: how to reduce the costs of flooding in the Houston area. Residents  
Against Flooding. Houston, TX. June 20, 2017.
- 2017 Reducing Flood Risk and Property Loss on the Upper Texas Coast: A multi-scale  
perspective. IVM, VU Amsterdam. May 29, 2017.
- 2017 How to Protect Maryland's Most Vulnerable from Future Floods (Encore Presentation).  
Association of Baltimore Area Grantmakers. Baltimore, MD. April 26, 2017.
- 2017 Losses Avoided with a Coastal Spine. League City Council meeting. League City, TX,  
April 11, 2017.
- 2017 Fighting with Floods: How we can reduce the cost of flooding along the Gulf of Mexico.  
Gulf of Mexico Alliance, All Hands Meeting. Houston, TX, March 30, 2017.
- 2017 Floods and the Built Environment: Protecting Maryland's Most Vulnerable. Association of  
Baltimore Area Grantmakers. Baltimore, MD. March 6, 2017.
- 2017 Rising Waters: How can Baltimore and other Coastal Communities adapt to the coming  
floods? Brain Spark, The Park School of Baltimore. Brooklynville, MD. March 5, 2017.
- 2016 Using Spatial Data to Identify Flood Risk Reduction Measures. TX Windstorm Insurance  
Association. November 16, 2016. Austin, TX.
- 2016 Crafting a New Agenda for Flood-Resilient Policies in the United States. Resiliency and  
Restoration Workshop. Ecology and Environment, Inc. October 11, 2016. Blue Mountain  
Lake, NY.

- 2016 Effective Flood Risk Reduction on the Texas Coast: the role of the Center for Texas Beaches and Shores. Galveston Coastal Legislative Tour. September 9, 2016. Galveston, TX.
- 2016 Flooding in Meyerland, TX: causes, consequences, and mitigation alternatives. Citizen Solutions to Houston Flooding. August 2, 2016. Meyerland, TX.
- 2016 Testimony on surge suppression in Galveston Bay. Joint TX State Legislative Committee to Study a Coastal Barrier System. TAMUG. April 11, 2016. Galveston, TX.
- 2016 The Coastal Atlas. Bay Area Houston Economic Partnership General. Membership Meeting. April 6, 2016. Seabrook, TX.
- 2016 NSF Flood Risk Reduction Program: A U.S.-Dutch Research & Education Partnership. Galveston Bay & Surrounding Area Coastal Resiliency & Storm Surge Workshop. April 5<sup>th</sup>, 2016. Houston, TX.
- 2016 Rising Waters: Crafting a New Agenda for Flood Resilient Policies in the United States. Delaware Environmental Institute, University of Delaware. March 10, 2016. Newark, DE.
- 2016 Spatial Analytical Approaches to identifying flood risk mitigation techniques in Galveston Bay. University of Amsterdam, Institute for Environmental Studies. March 2, 2016. Amsterdam, Netherlands.
- 2016 The NSF PIRE Program on Flood Risk Reduction. Risk Reduction Workshop. Delft University. February 29, 2016. Delft, Netherlands.
- 2016 State of the Bay: The Future of Preservation of Galveston Bay and an Introduction to the Texas Coastal Atlas for Galveston Bay. State of the Bay Symposium. January 14, 2016. Galveston, TX. With Stuart Carlton, Helen Walters, and William Mobley.
- 2015 The Texas Coastal Atlas and Collaborative Data Sharing. Houston Galveston Area Council (HGAC), GIS Working Group. December 2, 2015. Houston TX.
- 2015 Understanding Flood Risk with the Galveston Bay Coastal Web Atlas. Galveston Chamber of Commerce. October 8, 2015. Galveston, TX. With Bill Merrell, Len Waterworth, and Will Mobley.
- 2015 Flood Risk Reduction Program for the Houston-Galveston Region. River Oaks Breakfast Club. October 6, 2015. Houston, TX. With Bill Merrell and Len Waterworth.
- 2015 Flooding and Coastal Urban Resilience: The Houston-Galveston Region. Clemson University, Department of Planning, Development, and Preservation. Urban Resilience Speaker Series. September 24, 2015. Clemson, SC.
- 2015 The Coastal Web Atlas and Storm Surge Suppression. IMAC-Bay Area Houston Economic Partnership (BAHEP), International Maritime Advisory Committee. September 17, 2015. Clear Lake, TX.

- 2015 What Works: the cost savings of flood mitigation techniques. Preparing for Change: Building Resilient Coastal Communities workshop. The Nature Conservancy. August 17, 2015. Aransas Pass, TX.
- 2015 Flood Mitigation: What Works and What Doesn't. Preparing for Change: Building Resilient Coastal Communities Workshop. April 10, 2015. Pensacola, FL.
- 2015 Development, Sprawl, and Resilient Coastal Communities. *Houston of Tomorrow: Building a Resilient Coastal City*. Glasscock School of Continuing Studies, Rice University. March 25, 2015. Houston TX.
- 2015 Using Spatial Analysis to Assess Flood Risk and Reduction in Coastal Areas. GEOSAT Seminar Series, TX A&M University. March 24, 2015. College Station.
- 2015 Reducing flood risk in the Houston-Galveston region. Seabrook Rotary Club. February 19, 2015. Seabrook, TX.
- 2015 Modeling Scenarios for Flood Loss Reduction in Escambia County, FL. Webinar for Escambia County and The Nature Conservancy. February 9, 2015. With Wesley Highfield.
- 2014 Influence of Development Patterns on Flood Damages. General Land Office Coastal Resiliency Forum. December 12, 2014. Nassau Bay, TX.
- 2014 Analysis of Flood Risk: West Galveston Island, TX. Bermuda Beach Homeowner's Association meeting. October 25, 2014. Moody Gardens Hotel, Galveston Island, TX.
- 2014 Reducing Flood Risk in the Houston-Galveston Region. October 1, 2014. Delft University, Netherlands.
- 2014 Analysis of Flood Claims and Policies on the Galveston Island West End. West Galveston Island Homeowner's Association. Sept. 20, 2014. Galveston Country Club, Galveston, TX.
- 2014 Evaluating the Flood Loss Effectiveness of the Community Rating System. FEMA CRS Task Force meeting. September 11, 2014. Boulder, CO.
- 2014 Coastal Resiliency in TX: Pointing the way to more effective mitigation in the future. Texas State Legislature, Joint Committee Hearing for Land and Resource Management and Insurance on Coastal Resiliency. September 9, 2014. Austin, TX.
- 2014 Decreasing Flood Damage Through Effective Mitigation. Keeping your Head Above Water: Flood insurance, mitigation, and the Community Rating System Workshop. University of Florida, IFAS Extension. April 24, 2014. Okaloosa, FL.
- 2013 Evaluating the Effectiveness of Mitigation Strategies. Regional Floodplain Management Workshop. November 13, 2013. Largo, FL.
- 2013 Flood Mitigation: What Works and What Doesn't. Preparing for Change: Building Resilient Coastal Communities Workshop. October 4, 2013. Punta Gorda, FL.
- 2013 The TX Coastal Communities Planning Atlas. TX General Land Office. November 12, 2013.

- 2013 Floods, Hurricanes, and other Natural Hazards. Davinci Experience Science Camp. July 11, 2013. Brunswick, Maine.
- 2013 Evaluating the Effectiveness of Flood Mitigation Strategies. Community Rating System Workshop: Reducing flood insurance costs through comprehensive floodplain management. June, 18, 2013. Apalachicola NERR, Eastpoint, FL.
- 2012 Economic Values of Floodplain Ecosystems: The role of natural functions in reducing loss. University of Houston at Clear Lake. October 7, 2012. Clear Lake, TX.
- 2012 TX A&M at Galveston Summer Commencement Speech. August 11, 2012. Galveston, TX.
- 2012 Coastal Levees, Development, and Flood Mitigation: Reducing Vulnerability through Land Use Policy. National Research Council, Committee on Levees and the NFIP: Improving Policies and Practices. May 10, 2012. Sugarland, TX.
- 2012 Landscape Planning for Ecosystem Services: A Boundary Spanning Problem. Ecosystem Science and Management. March 8, 2012. Texas A&M University, College Station, TX.
- 2012 Building Resilient Communities: Implications for Texas. Chancellors' Century Council Annual Meeting. February 24, 2012. Galveston, TX.
- 2012 Causes and Consequences of Flooding in the United States. Eastern Carolina University Lecture Series. February 9, 2012. Greenville, NC.
- 2011 Research on the Impacts of the Community Rating System on Flood Risk Management. NAFSMA Annual Meeting. October 11, 2011. St. Petersburg, FL.
- 2011 Land Use Planning for Ecosystem Services. Galveston Bay Watershed Ecosystem Services Planning Workshop. September 27, 2011. The Woodlands, TX.
- 2011 Texas Coastal Communities Planning Atlas: Preparing Communities for Coastal Hazards. Showcase of NSF-Funded Hazards Research. September 7, 2011. Harte Senate Office Building, Washington, D.C.
- 2011 Texas Coastal Communities Planning Atlas: Preparing Communities for Coastal Hazards. National Science Foundation Research Expo. September 6, 2011. National Science Foundation, Arlington, VA.
- 2011 Coastal Community Atlas. West Galveston Island Property Owners Association. August 20, 2011. Galveston Island, TX.
- 2011 Green Cities and Natural Hazards. Green Land and Water Management Institute, Pusan National University. July 22, 2011. Pusan, Korea.
- 2011 Coastal Flooding and Resiliency: Building Safer Communities. June 29, 2011. University of Houston-Clear Lake, Clear Lake, TX.
- 2011 Evaluating the Effectiveness of the FEMA Community Rating System. FEMA CRS Weighting Forum. June 6, 2011. Philadelphia, PA.



- 2011 Introduction to the Concepts of Coastal Resiliency. 2011 Coastal Resiliency Workshop. May 27, 2011. TX A&M University, Galveston, TX.
- 2011 Evaluating the Effectiveness of the FEMA Community Rating System. May 24, 2011. FEMA Mitigation Division, Crystal City, VA.
- 2011 Landscape Planning and Analysis: Mapping Policy, Perceptions, and Policy Implementation. April, 5, 2011. TAMU Department of Ecosystem Science and Management, College Station, TX.
- 2011 Development Intensity and Flood Loss on the Gulf Coast: Causes, Consequences, and Policy Implications. April 1, 2011. Rice University, Department of Engineering.
- 2011 Factors Influencing Flood Loss: Development, Risk, and Mitigation on the Gulf Coast. Cascading Disasters and Resilience to Hurricanes Workshop. March 25, 2011. Rice University, Houston, TX.
- 2011 Opening Remarks. National Ocean Science Bowl. April 28, 2011. Galveston, TX.
- 2011 Advancing Coastal Resilience. Indicators of Community Well Being Workshop. March 8, 2011. Hollings Marine Lab, Charleston, SC.
- 2010 Environmental Planning and Analysis: Mapping, Perceptions, and Policy Implementation. October 9, Spatial Sciences Laboratory, TX A&M University, College Station, TX.
- 2010 Making Maps with the Coastal Atlas. September 23, Cline Elementary, Friendswood ISD, Friendswood, TX.
- 2010 Evaluating the Effectiveness of the FEMA CRS Program. April 23, FEMA Mitigation Division, FEMA Headquarters, Crystal City, VA.
- 2010 Decision-Making with the Coastal Atlas. April 21, Galveston GIS Consortium, Galveston, TX.
- 2010 Coastal Atlas Online Workshop. March 3, Sponsored by TX Sea Grant.
- 2010 Ecosystem Planning and Spatial Analysis. March 11, RLEM 410, Department of Ecosystem Science and Management, TX A&M University, College Station, TX.
- 2009 Flood Damage in Florida. October 30, Florida A&M University, Environmental Sciences Institute, Tallahassee, FL.
- 2009 Land Use Change on the Coast: causes, consequences, and policy implications. Southern Marine Laboratory Association Annual Meeting. April, 29, Smithsonian Environmental Research Center, Edgewater, MD.
- 2009 Land Use Change on the Texas Coast. Marine Research Seminar Series. February 13, Texas A&M University- Galveston.

- 2009 The Coastal Community Planning Atlas. Hazard Reduction and Recovery 20<sup>th</sup> Anniversary Workshop, January 31, Texas A&M University-College Station.
- 2009 Developing a Coastal Communities Planning Atlas for Texas. Given by Himanshu Grover, Galveston State of the Bay Symposium, January 13, Galveston, TX.
- 2009 Flood Mitigation through the FEMA Community Rating System. FEMA CRS Task Force, January 13, Houston, TX.
- 2008 Geographic Information Systems and the Hazard Reduction and Recovery Center. GIS Day, University Libraries Map and GIS Collections Services, November 11, Texas A&M University, College Station, TX.
- 2008 Developing a Coastal Communities Planning Atlas. Texas Coastal Applied Research Review Team Meeting. June, 17, Texas A&M University, College Station, TX.
- 2008 Examining the Impact of the Built Environment on Flooding in Coastal Texas and Florida. Harte Research Institute for Gulf of Mexico Studies, Texas A&M- Corpus Christi. March 28, Corpus Christie, TX.
- 2008 Developing a Coastal Communities Planning Atlas. City of Galveston. March 24, Galveston, TX.
- 2008 The Rising Cost of Floods: Examining the Impact of Wetland Alteration on Flooding. League of Women's Voters, Clean Water Act Forum. March 14, Houston, TX.
- 2008 Landscape Planning & Analysis: Mapping Policy, Perceptions & Policy Implementation. Renewable Natural Resources (RNER) 410. March 6, Texas A&M University, College Station, TX.
- 2008 The Rising Cost of Floods: Examining the Impact of Planning and Development Decisions on Flooding. NOAA Annual Ocean and Coastal Program Manager's Meeting. February 27, Washington, D.C.
- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Gulf of Mexico Alliance Annual Meeting. December 11, Corpus Christi, TX.
- 2007 Explaining Local Commitment to Climate Change Policy in the United States. South Florida Water Management District. November 16, West Palm Beach, FL.
- 2007 Coastal Flooding in Florida. Florida Atlantic University, Florida Atlantic Planning Society. November 14, Fort Lauderdale, FL.
- 2007 Examining the Relationship between Wetland Alteration and Coastal Watershed Flooding in Texas and Florida. University of North Carolina at Chapel Hill, Department of City and Regional Planning, Chapel Hill, North Carolina.
- 2007 Linking Wetland Alteration to Coastal Flooding in Texas and Florida. 10<sup>th</sup> Annual Southern & Caribbean Regional Coastal Managers Meeting. November 5-8, Lafayette, LA.

- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Houston Advanced Research Council, Woodlands, TX.
- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Bayou Preservation Association, Houston, TX.
- 2007 Landscape Planning & Analysis: Mapping policy, perceptions, and policy implementation. Renewable Natural Resources (RNER) 410, Texas A&M University, College Station, TX.
- 2007 Understanding the Relationship Between Wetland Alteration and Coastal Flooding. Texas General Land Office, Austin, TX.
- 2007 Estimating Flood Damage in Texas: Predictors, consequences, and policy implications. Department of Engineering, Rice University, Houston, TX. Bush School of Government, TX A&M University, College Station, TX.
- 2007 Estimating Flood Damage in Texas: Predictors, consequences, and policy implications. Department of Engineering, Rice University, Houston, TX.
- 2006 Spatial Analysis in Environmental Planning. Spatial Sciences Lab, Introduction to Spatial Sciences. Texas A&M University, College Station, TX.
- 2006 Environmental Planning: Principles and Practices. PLAN 365. Texas A&M University, College Station, TX.
- 2006 Explaining Local Commitment to Climate Change. Environmental Research and Studies Center, University of Alberta, Edmonton, Alberta.
- 2006 Wetland Alteration in Galveston Bay, Texas. Galveston Bay Estuary Project (GBEP), Clearwater, TX.
- 2005 Landscape Planning and Spatial Analysis. Renewable Natural Resources (RNER) 410. Texas A&M University, College Station, TX.
- 2005 The Role of Industry in Managing Ecosystems. Sustainable Development Seminar Series. University of Texas.
- 2004 Introduction to Environmental Planning. PLAN 365. Texas A&M University, College Station, TX.
- 2004 Ecosystem Planning and Management. RLEM 481. Texas A&M University, College Station, TX.
- 2003 Watershed Planning and Management. Department of Engineering Sustainability Seminar Series. Texas A&M University, College Station, TX.
- 2003 Ecosystem Planning. Rangeland Ecology and Management Seminar Series. Texas A&M University College Station, TX.
- 2003 Evaluating Ecosystem Management Capabilities at the Local Level in Florida. Program on Conflict and Dispute Resolution Colloquium. Texas A&M University, College Station, TX.

- 2002 Watershed Management and Environmental Planning in the United States. GISECOBAG, Bordeaux University 1 Meeting. Bordeaux, France.
- 2002 Economy and Sustainable Planning. College of Natural Resources, Environmental Policy Seminary Series. University of California at Berkeley, Berkeley, CA.
- 2002 The Role of Industry in Ecosystem Approaches to Management. Sustainable Seminar Series. University of Texas, Austin, TX.

## **CONFERENCE PRESENTATIONS**

- 2023 The Growing Threat of Urban Flooding: Causes, Consequences, and Policy Implications. Water Environment Federation 96th Annual Technical Exhibition and Conference (WEFTEC). October 2, 2023. Chicago, IL.
- 2023 Texas Buyers Be-Where: Flooding Risk Prevention Tool. Texas Emergency Management Conference. May 31, 2023. Fort Worth, TX.
- 2023 Understanding the Texas Hazard Mitigation Plan: Threats and Risks to Texas. Texas Emergency Management Conference. May 31, 2023. Fort Worth, TX.
- 2023 Fifteen Years of U.S.-Dutch Collaborations: How far we have come. Keynote. 2023 International Symposium on Coastal Flood Risk Reduction: Designing comprehensive solutions to multiple flooding threats. April 26, 2023. TX A&M University, Galveston, TX.
- 2023 Converting Data into Knowledge and Knowledge into Action to Help Support More Resilient Decisions in the Face of Disasters. 50<sup>th</sup> Anniversary of Environmental Studies at Bowdoin. Environmental Design and Planning Panel. April 14, 2023. Bowdoin College, Brunswick Maine.
- 2022 TX Disaster Information System. Texas Emergency Management Conference. June 1, 2022. San Antonio, TX.
- 2022 BRIDGING THE GAP: DATA ANALYTICS & DECISION MAKING FOR A DISASTER RESILIENT TEXAS. SSPEED's 10th Conference, Post-Harvey Climate & Flood Impacts on the Built Environment. April 29, 2022, Rice University, Houston, TX.
- 2022 Inside the Fight to Tackle Flood Risks. Panel Discussion. Society of Environmental Journalists Annual Conference. April 2, 2022. Houston, TX.
- 2022 Empowering Decision Makers in Texas with Information They Want. Closing Plenary. TFMA Annual Conference. March 11, 2022. Houston, TX.
- 2022 Building Flood Awareness through Communications. Panel Discussion. TFMA Annual Conference. March 10, 2022. Houston, TX.

- 2022 Texas Weather Disasters--Everything Is Bigger Here? Understanding the Role of the Built Environment. Presidential Session. American Meteorological Society Annual Meeting. January 26, 2022. Virtual.
- 2021 Measuring Mapping, and Communicating Flood Risk in Texas. Texas Division of Emergency Management, TAMUS Research Symposium. November 1, 2021. College Station, TX.
- 2021 A Framework for Coastal Flood Risk Reduction: Charting a course toward resiliency. Blueprint for Coastal Adaptation Webinar. Co-sponsors: OCTO (EBM Tools Network, The Skimmer, OpenChannels, MPA News, MarineDebris.info). October 13, 2021. Virtual.
- 2021 The Built Environment and Increasing Flood Loss. Association of State Floodplain Managers webinar: Flood Damage Data Identifies Risk Issues with Highway Sound Barriers. Sept. 2, 2021. Virtual.
- 2021 Measuring, Mapping, and Communicating Flood Risk in Texas. Global Alliance of Disaster Research Institutes (GADRI), 5<sup>th</sup> Global Summit: Engaging Sciences with Action. August 31, 2021. Virtual.
- 2021 Dealing with Uncertainty on the Texas Coast: How to Communicate Flood Risk. PVAMU Land Grant Earth Day Celebration. Earth Restoration under Uncertainty: Accomplishments and Future Outlooks panel session. April 22, 2021. Virtual.
- 2021 Managing Flooding in Coastal Areas: A framework for mitigating losses. Recurrent Flooding Workshop: Identifying and Prioritizing Research Needs. NSF CoPe workshop. Old Dominion University. April 15, 2021. Virtual.
- 2021 Measuring, Mapping, and Communicating Flood Risk in the Houston, TX Region. SSPEED Center, Rice University webinar. HOUSTON INLAND FLOODING...DEFINING THE WATERMARK. March 25, 2021. Virtual.
- 2021 Texas Disaster Information System. Iowa-Texas Flood Planning Meeting, Feb 4, 2021, Virtual.
- 2020 Innovations in Measuring, Mapping, and Communicating Flood Risk. Building a Culture of Preparedness- FAIR Foundation Industry Conference 2020. October 1, 2020. Virtual.
- 2020 The Growing Threat of Urban Flooding. Floodplain Management Association Annual Conference. Sacramento, CA. September 10, 2020. Virtual.
- 2020 Eye of the Storm: How Texas Emerged as a Flood-Resilient State. Plenary session. Association of State Floodplain Managers National Conference. June 9, 2020. 1,600 people virtually.
- 2020 The Growing Threat of Urban Flooding. Plenary Session. National Flood Conference. June 1, 2020. 1,072 people virtually.
- 2019 From Knowledge to Action: Communicating Flood Risk to Support Resilience Policy in Texas: Lessons Learned from Hurricane Harvey. National Association of Insurance Commissioners (NAIC) National Meeting, Center for Insurance Policy and Research. December 8, 2019, Austin, TX.

- 2019 Applying Science and Technology to Drive State Flood Mitigation and Resilience Policy. Innovation Summit for Preparedness and Resilience. NAPSG Foundation. November 14, 2019, Texas A&M University at Galveston. Galveston, TX.
- 2019 The Flooded City: Adapting to the New Reality of Extreme Water Events in TX. Gulf Coast Association of Geological Societies Convention. October 25, 2019, Houston, TX.
- 2019 Measuring, Mapping, and Managing Flood Risk. 2019 SSPEED CONFERENCE: Post-Harvey Era: Resilient Engineering, Infrastructure & Policy. October 8, 2019, Rice University, Houston, TX.
- 2019 Buyers Be-where: using geo-visual tools to facilitate emergency preparedness. 2019 Texas Emergency Management Conference. April 15, 2019, San Antonio, TX.
- 2019 Urban Flooding: Our Growing National Challenge to Sustainability. Keynote. NatureCity Forum. March 26, 2019, Wheaton, MD.
- 2018 The Flooded City: Adapting to the New Reality of Extreme Water Events in TX. College of Architecture Research Symposium. TAMU. October 29, 2018, College Station, TX.
- 2018 The Texas Response to Hurricane Harvey: Setting a framework for flood risk reduction. New Jersey Association for Floodplain Management Annual Conference. October 24, 2018, Atlantic City, NJ.
- 2018 The Future of Flood Risk Management: Lessons learned from Hurricane Harvey. National Flood Conference: Making a Moonshot for the Future. June 13, 2018, Washington, DC.
- 2018 The Flooded Landscape: Adapting to the New Reality of Extreme Water Events. Keynote, 27<sup>th</sup> Tennessee Water Resources Symposium. Montgomery Belle State Park. April 11, Nashville, TN.
- 2018 Flood Risk Reduction and the Urban Built Environment. TEXAS FLOODPLAIN MANAGEMENT ASSOCIATION. 30th Annual Conference. March 9, 2018, Horseshoe Bay, TX.
- 2018 INFORMING THE TEXAS COMMISSION TO REBUILD AFTER HURRICANE HARVEY. TEXAS FLOODPLAIN MANAGEMENT ASSOCIATION. 30th Annual Conference. March 9, 2018, Horseshoe Bay, TX. With Len Waterworth.
- 2018 Flood Risk Reduction and the Built Environment. Urban Flooding and Infrastructure: Moving forward from Harvey. SSEED Center Conference, Rice University. Feb 21-22, 2018. Houston TX.
- 2017 Rising Waters: The Causes, Consequences and Policy Implications for Flooding in the United States. National Tornado Summit and Disaster Symposium. Feb 14, 2017. Oklahoma City, OK.
- 2017 Risk, Mitigation and Planning: Lessons Learned from Flooding in the Houston Area. With Russell Blessing and Wes Highfield. ASFPM 2017 Conference. May 2, 2017. Kansas City, MO.

- 2017 Urban Flooding: How do we deal with a National Challenge. With Gerry Galloway. NATIONAL ASSOCIATION OF FLOOD & STORMWATER MANAGEMENT AGENCIES (NAFSMA) Annual Meeting. June 28, 2017. Charleston, SC.
- 2016 The Galveston Bay Region as an International Test Bed for Flood Risk Reduction. Robert Whalen, Sam Brody, Bill Merrell. 8th Annual Conference on Hurricanes, Major Disasters, Coastal Protection and Rapid Recovery in Texas and the Gulf Coast Region. University of Houston. August 5, 2016. Houston TX.
- 2016 NSF PIRE Flood Risk Reduction Program: A U.S.-Dutch Research and Education Partnership AVOIDING DISASTERS CONFERENCE: How to Reduce Impacts from the Next Big Storm. Rice University, April 26, 2016. Houston, TX.
- 2016 NSF Flood Risk Reduction Program: A U.S.-Dutch Research & Education Partnership. Galveston Bay & Surrounding Area Coastal Resiliency & Storm Surge Workshop. April 5th, 2016. Houston, TX.
- 2016 The National Science Foundation PIRE Program on Flood Risk Reduction. Risk Reduction Workshop. Delft University. Feb. 29, 2016. Delft, Netherlands.
- 2016 State of the Bay: The Future of Preservation of Galveston Bay and an Introduction to the Texas Coastal Atlas for Galveston Bay by Sam Brody, Stuart Carlton, Helen Walters, William Mobley. State of the Bay Symposium. January 14, 2016. Galveston, TX.
- 2016 NSF PIRE Flood Risk Reduction Program: A U.S.-Dutch Research and Education Partnership AVOIDING DISASTERS CONFERENCE: How to Reduce Impacts from the Next Big Storm. Rice University, April 26, 2016. Houston, TX.
- 2015 Measuring the Effect of the FEMA Community Rating System Program on Flood Losses across the United States. With Wesley Highfield. ACSP Conference. October 22, 2015. Houston, TX.
- 2015 Flooding and Coastal Resiliency: The Houston-Galveston Region. Annual TX APA Chapter State Planning Conference. October 8, 2015. Galveston, TX.
- 2015 Examining Flood Risk, Loss, and Policy in the Clear Creek Watershed. With Russell Blessing. World Environmental and Water Resources Congress. May 20, 2015. Austin, TX.
- 2014 Predicting Urban Growth in Vulnerable Coastal Environments. Shell Center for Sustainability Workshop: How Sustainable is the Texas Coast? Are we in a "state of denial"? October 29, 2014. Rice University, Houston, TX.
- 2014 Bridging Campuses: How to teach in Multi-Classroom Environments. College of Architecture Research Symposium: Natural, Built, Virtual. October 27, 2014. Texas A&M University, College Station, TX.
- 2014 Coastal Resilience in Texas. Coastal Resilience Conference 2014, Living on the Edge: Strategies for Building and Preserving Resilient Coastal Communities. October 9, 2014. Galveston, TX.

- 2014 Evaluating the effectiveness of the Community rating system: A comparative analysis. With Wes Highfield. Association of State Floodplain Managers Annual Conference- making room for floods and fish. June 3, 2014. Seattle, WA.
- 2014 Achieving Higher Standards to Promote Responsible Floodplain Management: a local, state and federal perspective. URS Showcase. Association of State Floodplain Managers Annual Conference- making room for floods and fish. June 3, 2014. Seattle, WA.
- 2014 Floodplain Management in TX: Pointing the Way to More Effective Mitigation in the Future. TX Floodplain Managers Association Annual Conference, Mike Howard Lectureship, May 28, 2014. Irving, TX.
- 2013 Influence of the built environment on flooding. Flood risk reduction colloquium. July 24, 2013. Delft University, Netherlands.
- 2013 Policies and Practices for Flood Mitigation in Texas and the U.S. Plenary speech. TX Flood Managers Association Annual Conference. May 23, 2013. Sugarland, TX, Plenary speech.
- 2013 Policies and Practices for Flood Mitigation in the U.S.: How much could we save? Keynote speech. Florida Flood Managers Association Annual Conference. April 11, 2013. St. Petersburg, FL, Keynote Speech.
- 2013 Texas Planning Schools and Sustainable Community Development. TX American Planning Association Conference. October 4, 2013. Galveston, TX.
- 2013 Examining Flood Losses Along the Gulf of Mexico Coast. Conference on Hurricane Ike 5 Years Later. Rice University SSPEED Center. September 25, 2013. Houston, TX
- 2012 The TX Coastal Planning Atlas and Storm-water Runoff Modeling. Planning for Sustainable Coastal Communities Symposium. Texas A&M University at Galveston. December 6, 2012. Galveston, TX.
- 2012 Determining the Economic Benefits of Flood Mitigation: Evidence from Scientific Research. USACE Flood Risk Management and Silver Jackets Workshop. Keynote speaker. August 21, 2012. Harrisburg, PA.
- 2012 Determining the Economic Values of Floodplain Ecosystems: the role of natural functions in reducing flood losses. ASFM National Conference: Mission Mitigation. Plenary speech. May 23, 2012. San Antonio, TX.
- 2012 Identifying Risk and Vulnerability in the Clear Lake Watershed. Gulf Coast Hurricanes: Mitigation and Response Conference. April 10, 2012. Rice University, Houston, TX.
- 2012 Regional Community Resiliency Along the Gulf Coast: Urban versus Rural Settings. Disaster Resiliency and Sustainability Workshop. March 28-30. University of Central Florida, Orlando, FL.
- 2011 Evaluating the Effectiveness of Planning Activities in Reducing Flood Losses: A National Study. ACSP 2011 Annual Conference. October 13, 2011. Salt Lake City, UT.



- 2011 Rising Waters: Causes and Consequences of Flooding in the United States. Texas Floodplain Management Association Annual Conference. September 22, 2011. San Antonio, TX.
- 2011 Flooding in the U.S.: Causes, Consequences, and Policy Implications. 2011 International Water Symposium: Water Security and Cities of the Future. Korea Environmental Institute. July 19, 2011. Korea Chamber of Commerce and Industry, Seoul, Korea.
- 2011 Developing a Coastal Communities Planning Atlas for Decision Makers and Local Residents. 21st Annual SAIL Conference: Into the "I" of the Storm. April, 7, 2011. TX A&M University, Galveston, TX.
- 2010 Negotiation: Tips, Tricks, and Treat for Successful Outcomes. 4<sup>th</sup> Annual Women on the Water (WOW) Conference. November 6, Texas A&M University at Galveston.
- 2010 Development Intensity and Flood Loss: The Erosion of Resiliency on the Gulf Coast. ACSP Conference. October 7, Minneapolis, Minnesota.
- 2010 Land Use Tools for Flood Sustainability. Sustainable Land Use Conference: A Better Future for the Houston Region. October 5, Shell Center for Sustainability, Rice University, Houston, TX.
- 2010 Coastal Communities Planning Atlas as a Tool for Emergency Management. 4<sup>th</sup> Annual Emergency Managers Association of Texas Symposium: Lighting the Way to the Future. September 1, League City, TX.
- 2010 Evaluating the Effectiveness of Mitigation Strategies for Flood Reduction: How Much Can We Save? May 26, Coastal Resiliency Symposium. Rice University, Houston, TX.
- 2009 A Coastal Communities Planning Atlas for Decision Makers and Local Residents. TX APA Conference. October 9, Galveston, TX.
- 2009 Examining the Effectiveness of Flood Reduction Strategies. TX APA Conference. October 8, Galveston, TX.
- 2009 Examining the Willingness of Americans to Alter Behavior to Mitigate Climate Change. ACSP Annual Conference. October 1, Crystal City, VA.
- 2009 Applications of the Texas Coastal Communities Planning Atlas: Proactive Decision Making in a Web GIS Environment. 8<sup>th</sup> Annual Sea Grant Researchers Conference. September 22, TX A&M-Galveston, Galveston, TX.
- 2009 Does Mitigation Work? Examining the Effectiveness of Flood Reduction Strategies. Hurricane Ike Revisited Symposium. September 14, Rice University, Houston TX.
- 2009 Examining Local Commitment to Climate Change Policy in the U.S. through the Dimensions of Risk, Stress, and Capacity. 5<sup>th</sup> Urban Research Symposium, "Cities and Climate Change," World Bank, June 29, Marseilles, France.
- 2008 *Keynote Speaker*, Land Use Change on the Coast of Texas. Severe Storm Prediction and Global Climate Impact in the Gulf Coast Conference, October 30, Rice University, Houston, TX.

- 2008 Developing a Coastal Planning Support System for Texas. TX Sea Grant Researchers Conference, September 24, Texas A&M University, College Station, TX.
- 2008 Mitigating Flood Impacts at the Local Level in Texas and Florida. ACSP/AESOP Conference, July 7, Chicago, Illinois.
- 2008 Examining the Impact of Local Planning Decisions on Flooding in Texas. Severe Storm Prediction, Education and Evacuation from Disaster (SSEED) Center Conference, May 29, Rice University, TX.
- 2008 Greening Local Energy: Explaining the Geography of Household Energy Use in the U.S. National APA Conference, April 28, Las Vegas, NV.
- 2007 Planning for Sustainable Coastal Communities: A Web-based Approach. Texas Sea Grant Researchers Conference. October 10, Port Aransas, TX.
- 2007 Policy Learning for Flood Mitigation: a longitudinal assessment of CRS activities in Florida. ACSP Conference, October 21, Milwaukee, WI.
- 2007 Policy Learning for Flood Mitigation: A longitudinal assessment of CRS activities in Florida. National Hazards Workshop, Hazards and Disasters Researchers Meeting. July 10, Boulder, Colorado.
- 2007 Explaining Local Commitment to Climate Change Policy in the United States. Florida Climate Change Conference. May 10, Tampa, Florida.
- 2007 Linking Wetland Alteration to Coastal Flooding: predictors, consequences, and policy implications. State of the Bay Symposium. January 24, Galveston, Texas.
- 2007 Examining the Impact of the Built Environment on Flood Losses in Texas. Sustainable Urbanism Conference, April 2, Texas A&M University, College Station, Texas.
- 2006 Estimating Flood Damage in Texas Using GIS: predictors, consequences, and policy implications. Geospatial Technology and Homeland Security University Symposium. November 15, Texas A&M University, College Station, Texas.
- 2006 Developing A Coastal Communities Planning Atlas: An Educational Tool for Decision Makers and Local Residents. Sea Grant Researchers Conference. October 8, Galveston, Texas.
- 2006 Explaining Local Commitment to Climate Change Policy in the United States. ACSP Conference. November 10-12, Fort Worth, Texas.
- 2006 National Hazards Workshop, Hazards and Disaster Researchers Meeting. July, Boulder, Colorado.
- 2006 Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida: Causes, Consequences, and Policy Implications. International Disaster Reduction Conference. Davos, Switzerland.

- 2005 Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida. ACSP Conference. Kansas City, MO.
- 2005 Sustainable Planning at the Urban Fringe: Examining the factors contributing to nonconforming development patterns in Florida. International Conference on Sustainable Planning and Development. Bologna, Italy
- 2004 Does Planning Work? Testing the Implementation of Local Environmental Planning in Florida. ACSP Conference. Portland, OR.
- 2003 Evaluating Ecosystem Management Capabilities at the Local Level in Florida: A Policy Gap Analysis. International Conference on Sustainable Planning and Development. Skiathos, Greece.
- 2001 Implementing the Principles of Ecosystem Management In Florida. ACSP 43<sup>rd</sup> Annual Conference. Cleveland, OH.
- 2000 A Model for Ecosystem Management Through Land Use Planning. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.
- 2000 Public Participation and Planning for Natural Hazards Mitigation. ACSP 42<sup>nd</sup> Annual Conference. Atlanta, GA.
- 1997 Evaluating a Network of Marine Protected Areas. Maritime Atlantic Ecozone Science Workshop. Huntsman Marine Science Center. St. Andrews, NB.
- 1997 Planning for Ecotourism in Maine. DownEast Ecotourism Conference. Hancock, ME.
- 1997 Marine Protected Areas: Results of a Survey. Gulf of Maine Marine Protected Areas Workshop. Freeport, ME.

## TEACHING EXPERIENCE

### COURSES TAUGHT

- LDEV 671, Sustainable Development.
- PLAN 641, Environmental Planning.
- PLAN 620, Dispute Resolution.
- PLAN 651, SCMP Seminar: Planning for Coastal and Marine Protected Areas.
- NSF Sustainable Coastal Margins Seminar on Informational Technology and Science Education.
- MARS 689, Coastal Environmental Planning
- PLAN 642, Coastal Sustainability and Resiliency

<b>Semester</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Evaluation Score</b>
<i>Spring, 2002</i>	PLAN 641	Environmental Planning	3	4.30
<i>Fall, 2002</i>	PLAN 620	Dispute Resolution	3	4.42
<i>Spring, 2003</i>	PLAN 641	Environmental Planning	3	4.58
<i>Spring, 2003</i>	*PLAN 689	Planning for Coastal & Marine Protected Areas	3	4.56
<i>Summer, 2003</i>	**PLAN 689	Sustainable Coastal Margins	3	NA
<i>Fall, 2003</i>	PLAN 620	Dispute Resolution	3	4.93
<i>Spring, 2004</i>	PLAN 641	Environmental Planning	3	4.66
<i>Spring, 2004</i>	LDEV 671	Sustainable Development	3	4.50
<i>Summer, 2004</i>	+PLAN 689	Sustainable Coastal Margins	3	NA
<i>Fall, 2004</i>	PLAN 620	Dispute Resolution	3	4.92
<i>Fall, 2004</i>	PLAN 689	Planning for Coastal & Marine Protected Areas	3	4.96
<i>Spring, 2005</i>	PLAN 641	Environmental Planning	3	4.54

<i>Spring, 2005</i>	LDEV 671	Sustainable Development	3	4.63
<i>Spring, 2006</i>	LDEV 671	Sustainable Development	3	4.44
<i>Spring, 2006</i>	PLAN 620	Dispute Resolution	3	4.62
<i>Fall, 2006</i>	PLAN 641	Environmental Planning	3	4.73
<i>Spring, 2007</i>	PLAN 620	Dispute Resolution	3	4.95
<i>Spring, 2007</i>	LDEV 671	Sustainable Development	3	4.27
<i>Spring, 2008</i>	PLAN 620	Dispute Resolution	3	4.92
<i>Spring, 2008</i>	LDEV 671	Sustainable Development	3	4.68
<i>Fall, 2008</i>	PLAN 641	Environmental Planning	3	4.90
<i>Spring, 2009</i>	LDEV 671	Sustainable Development	3	4.19
<i>Spring, 2009</i>	PLAN 620	Dispute Resolution	3	4.91
<i>Fall, 2009</i>	PLAN 641	Environmental Planning	3	4.61
<i>Fall, 2009</i>	MARS 689	Coastal Environmental Planning	3	4.80 <sup>^</sup>

<i>Spring, 2010</i>	LDEV 671	Sustainable Development	3	4.47
<i>Spring, 2010</i>	MARS 689	Coastal Sustainability & Resiliency	3	4.68^
<i>Fall, 2010</i>	PLAN 641- CS	Environmental Planning	3	4.52
<i>Fall, 2010</i>	PLAN 641- G	Environmental Planning	3	4.98^
<i>Spring, 2011</i>	LDEV671	Sustainable Development	3	4.08
<i>Spring, 2011</i>	MARS 689	Coastal Resiliency & Sustainability	3	4.87^
<i>Fall, 2011</i>	PLAN 641-CS	Environmental Planning	3	4.55
<i>Fall, 2011</i>	Plan 641-G	Environmental Planning	3	4.80^
<i>Spring, 2012</i>	LDEV671	Sustainable Development	3	4.95
<i>Spring, 2012</i>	MARS 689	Coastal Resiliency & Sustainability	3	3.78
<i>Fall, 2012</i>	PLAN 641-CS	Environmental Planning	3	4.95
<i>Fall, 2012</i>	Plan 641-G	Environmental Planning	3	4.78
<i>Spring, 2013</i>	LDEV-G 671	Sustainable Development	3	NA

<i>Spring, 2013</i>	PLAN 642	Coastal Resiliency	3	4.85
<i>Fall, 2013</i>	PLAN 641-CS	Environmental Planning	3	4.58
<i>Fall, 2013</i>	PLAN 641-G	Environmental Planning	3	4.69
<i>Spring, 2014</i>	LDEV-G 671	Sustainable Development	3	5.00
<i>Spring, 2014</i>	PLAN 642	Coastal Resiliency	3	4.98
<i>Fall, 2014</i>	PLAN 641-CS	Environmental Planning	3	4.97
<i>Fall, 2014</i>	PLAN 641-G	Environmental Planning	3	5.00
<i>Spring, 2015</i>	PLAN 642-CS	Coastal Resiliency	3	4.65
<i>Spring, 2015</i>	PLAN 642-G	Coastal Resiliency	3	4.55
<i>Fall, 2015</i>	PLAN 641-CS	Environmental Planning	3	4.84
<i>Fall, 2015</i>	PLAN 641-G	Environmental Planning	3	4.33
<i>Spring, 2016</i>	PLAN 642	Coastal Resiliency	6	4.83
<i>Spring, 2016</i>	MARS 489	Sp. Topics Climate Change	3	4.78

<i>Fall, 2016</i>	PLAN 641	Environmental Planning	6	NA
<i>Spring, 2017</i>	PLAN 642-CS/G	Coastal Resiliency	6	4.95/4.83
<i>Fall, 2017</i>	PLAN 641- CS/G	Environmental Planning	6	4.82/4.51
<i>Spring, 2018</i>	PLAN 642-CS/G	Coastal Resiliency	6	/4.83
<i>Fall, 2018</i>	Rice U., Glasscock School of Continuing Education	Hurricane Harvey Course	--	3.83-4.0
<i>Spring, 2020</i>	PLAN 642-CS/G	Coastal Resiliency	6	4.82/4.78
<i>Fall, 2020</i>	MARS689	Coastal Ecosystem Management	3	
<i>Spring, 2021</i>	MARS689	Coastal Resiliency	3	
<i>Fall, 2021</i>	MARS689	Coastal Ecosystem Management	3	
<i>Spring, 2021</i>	MARS689	Coastal Resiliency	3	
AVERAGE				<b>4.67</b>

\*Denotes a course that has never previously been taught in the Department.

+This course is taught through the NSF-sponsored Informational Technology and Science (ITS) program.

^Scale reversed to keep scores consistent with other courses taught.

## PH.D. COMMITTEES

<b>Name</b>	<b>Faculty Role</b>	<b>Degree Sought</b>	<b>Topic/Title</b>	<b>Expected Date of Graduation</b>



Hyung-Cheal Ryu	Chair	Urban & Regional Science	Ecological Footprint Analysis in Dallas County, TX	2005*
David Bierling	Member	Urban & Regional Science	Stakeholder Participation	2010*
Zhenghong Tang	Chair	Urban & Regional Science	Watershed Management and Planning	2007*
Sarah Bernhardt	Chair	Urban & Regional Science	Coastal & Marine Planning	2009*
Sudha Arlikatti	Member	Urban & Regional Science	Household Earthquake Adjustments	2005*
Roubabah Ismayilova	Member	Urban & Regional Science	Bio-fuel Production in TX	2007*
Bing Sheng	Member	Geography	Growth Management	2009*
De'Etra Young	Member	Forestry	Watershed Management	2010*
Wesley Highfield	Chair	Urban & Regional Science	Wetland Alteration & Watershed Flooding	2008*
Himanshu Grover	Chair	Urban & Regional Science	Climate Change Planning	2009*
JunEun Kang	Co-Chair	Urban & Regional Science	Flood Planning	2009*
Gabriel Burns	Member	Urban & Regional Science	Hazard Resiliency Among Border Communities	2012
Li-Pin Lin	Chair	Urban & Regional Science	Environmental Impacts of Ecotourism	2011*
HeeJu Kim	Chair	Urban & Regional Science	Urban Heat Island Effects	2013*
Michael Gilbrook	Member	Biology, UCF	Land Use and Biodiversity	2015*
Joshua Gunn	Chair	Urban & Regional Science	Wetlands and Flooding	2016*

Mustafa Sharif	Member	Urban & Regional Science	Sustainable Industry	2015*
Hyun Kim	Member	Urban & Regional Science	Flood Hazards	2014*
Paula Lorente	Member	Urban & Regional Science	Development and Flooding	2016*
Russell Blessing	Chair	Urban & Regional Science	Ecosystem Function	2017*
Kayode Atoba	Chair	Urban & Regional Science	Coastal Hazards	2017*
William Mobley	Co-Chair	Urban & Regional Science	Fire and Resiliency	2017*
Yoonjeong Lee	Chair	Urban & Regional Science	Flood Hazards	2016*
Hyekyung Lee	Co-Chair	Urban & Regional Science	Low Impact Development	2016*
Antonia Sebastian	Member	Engin., Rice U.	Flood Hazards	2017*
Siyu Yu	Member	Urban & Regional Science	Environmental Planning	2019*
Mathew Malecha	Member	Urban & Regional Science	Coastal Resiliency	2020*
Kirana Pirandi	Member	Geography	Crowd sourcing data analysis	2022
Jayton Rainey	Chair	Urban & Regional Science	Flood Planning	2021*
Hamed Farahmand	Member	Eng.	Flood Risk	2022*
Mitchel Meads	Chair	MCMS	Wetlands and Surge	2025
Nick Diaz	Member	MCMS	Flood Risk	2024
Miguel Esparza	Member	Civil Eng.	Flood Risk	2023
Faxi Juan	Member	Civil Eng.	Flood Risk	2023
Chandra Hada	Chair	MCMS	Plan Implementation	2025
Shefali Venkatrami	Chair	MCMS	Tidal Parks	2026

Kelli Greenwood	Member	UTA	Engineering	2025
Kelli Sobers	Member	MCMS	Recovery	2025
Jacklyn Turnbaugh	Member	Coastal Eng.	Dune systems	2025
Peter Akinlotan	Member	MCMS	Spatial Analysis	2026
Kelli Gobers	Member	MCMS	Flood Risk	2026
Shawn Carter	Member	MCMS	Coastal Floods	2026
Flavia Iona Patrascu	Member	Civil Eng.	Flood Modeling	2026
Akhil Anil Rajput	Member	Civil Eng.	Urban Resilience	2026
Chia-Fu (Joey) Liu	Member	Civil Eng.	Flood Resilience	2026

\* Graduated

## MASTER'S COMMITTEES

<b>Name</b>	<b>Faculty Role</b>	<b>Degree Sought</b>	<b>Topic/Title</b>	<b>Expected Date of Graduation</b>
Jennifer Yust	Chair	Master's of Urban Planning	The Role of Resource-Based Industry in Ecosystem Management	2004*
Vicky Carrasco	Chair	Master's of Urban Planning	Sprawl Reduction Planning Policies	2004*
Wes Highfield	Chair	Master's of Urban Planning	A Spatial Analysis of Air Quality in Dallas, TX	2004*
Sara Thornton	Chair	Master's of Urban Planning	Ecological Restoration	2005*
Missy Pollard	Chair	Master's of Urban Planning	Land Use Planning	2006*
Michael Dyke	Co-Chair	Master's of Urban Planning	Natural Hazards Management	2005*
Paula Lorente	Co-Chair	Master's of Urban Planning	Wetland Mitigation Banking	2005*

Tracy Gwaltney	Member	M.S. in Rangeland Ecology	Modeling the Impacts on Runoff in a Rangeland Environment	2003*
Clint Wolfe	Member	M.S. in Water Res. Management	Water Resource Conflicts	2004*
Chris Butler	Member	Master's of Urban Planning	Public Participation in Planning Using Geographic Information Systems	2004*
Robin Stover	Member	Master's of Urban Planning	Plan Implementation	2004*
Dan Whitton	Member	Master's of Land Development	Wetland Mitigation	2005*
Lee Johnson	Member	Master's of Land Development	Sustainable Development	2005*
Katie Collier	Member	Architecture	Ecotourism and Environmental Education	2005*
Amber Davies	Member	Rangeland Ecology	Spatial Examination of Landowner Perceptions	2006*
De'Etra Young	Member	Forestry	GIS Tools & Water Quality	2006*
Himanshu Grover	Chair	Master's of Urban Planning	Climate Change Planning	2006*
Mathew Hilgemeier	Chair	Master's of Urban Planning	Greenway Planning	2007*
Jeffery Missal	Chair	Master's of Urban Planning	Hazards Planning	2008*
Vanessa Kelly	Member	M.S. Water Management Hydrological Science	Water Dispute Resolution	2007*
Linda Salzar	Chair	Master's of Urban Planning	Watershed Management	2009*
Angie Leinhert	Chair	Master's of Urban Planning	Environmental Planning	2009*

Ching-Yu Chou	Chair	Master's of Urban Planning	Environmental/land use planning	2008*
Pamela Da'Graca	Member	Master's of Architecture	Sustainable Architectural Design	2009*
Parrot Hall	Member	Master's of Natural Resources Development	Golf Courses & Protection of Natural Habitats	2009
Dan Galindo	Chair	Master's of Urban Planning	Evaluation of Smart Growth Communities	2009*
Hee Ju Kim	Chair	Master's of Urban Planning	Urban Heat Island Effect	2009*
Xun Ping	Member	Master's of Urban Planning	Urban Form	2009*
Anita Hollman	Chair	Master's of Urban Planning	Coastal Management	2010*
Juanita Huff	Member	Rangeland Ecology	Watershed Management	2010*
Nicole Persons	Member	Geography	Wind Energy	2010*
Mark Navarro	Member	Land Development	Sustainable Development	2010*
Cameron Muhic	Member	MUP	Land Use	2010*
Amanda Geserick	Member	Arch	Sustainable Design	2010*
Joshua Gunn	Member	MARM	Wetland Policy	2010*
Amie Hufton	Member	MARM	Fisheries	2010*
Heather Wade	Chair	MUP	Enviro. Planning	2011*
Carland Holstead	Chair	MARM	Wetlands	2011*
Sarah Norman	Member	MARM	Recreational Fisheries	2011*
Russell Blessing	Chair	MUP	Failing Septic Systems	2011*
Allen Kumassah	Chair	MUP	Open Space	2011*
Dayna Finlay	Member	Arch	Ecotourism	2012*
Ryan Norton	Chair	MUP	Resiliency	2012*

Laura Forest	Member	WFS	Protected Areas	2012
Tyler Frizzle	Chair	MARM	Coastal Planning	2012*
Laurissa Noack	Member	MARM	Bird Habitat	2012*
Melinda Barnes	Member	ESSM	Sustainable Forestry	2012*
Thomas Riddle	Member	MARM Thesis	Bird Habitat	2012*
Jennifer Feagins	Chair	MARM	Coastal Hazards	2012*
Sae Lee	Chair	MUP	Coastal Hazards	2012*
Jaimie Masterson	Chair	MUP	Flood Resiliency	2012*
Patrick Doty	Chair	MUP	Flood Hazards	2013*
Tak Makino	Chair	MARM Thesis	Fire Resiliency	2012*
Alexandra Stiles	Chair	MARM	Coastal Resiliency	2013*
Stephanie Carballo	Member	MUP	Protected Areas Network	2013*
Kevin Crosby	Chair	MUP	Open Space Protection & Floods	2013*
Frances Kellerman	Member	MCRP- UT Austin	Flood Risk Vulnerability	2013*
Morgan Wilson	Chair	MUP	Flood Hazards	2014
Jake Emmert	Co-Chair	MARM	Geo Hazards	2015*
Sequoia Riley	Chair	MARM	Wetlands	2015*
Kasper Stoeten	Member	Engineering, Delft U.	Flood Barriers	2013*
Walt Peacock, Jr.	Member	MUP	Hazards	2014*
David Moulton	Member	Marine Biology	Ecosystems	2015*
Amanda Schneider	Member	Architecture	Sustainable Development	2014*
Helen Walters	Chair	MARM	Land Use Change	2016*
Whitlee Baimbridge	Member	MARM	Ecosystem Services	2015*
Kendra Kopp	Member	MARM		2015*
James Gay	Member	MARM		2015*

Lindsay Doremus	Member	MUP	Housing	2015*
Kathryn Kalubar	Chair	MARM	Environmental Planning	2016*
Reja Yousuf	Chair	MUP	Wetland Resiliency	2016*
Vera Abushakra	Chair	MUP	Elevating Structures & Floods	2016*
Jayton Rainey	Chair	MARM	Harmful Algae Blooms	2017*
Valeria Rodriquez	Co-Chair	MARM		2018*
Samantha Dunn	Chair	MARM	Protected Areas	2018*
Travis Winters	Member	Water Management		2018*
Jessica Casillas	Member	MARM		2018*
Jesse Gill	Member	Rice U.		2017*
Ellen Harmon	Member	MARM		2018*
Jaimlyn Korol	Chair	MARM	Flood Risk Reduction	2019*
Laura Sterns	Chair	MARM	Industry & Flood Risk	2018*
Matthew Billman	Member	Geography	Flood Risk perception	2020*
John Friebele	Member	Rec, Park, Tourism Sciences		2020*
Hanna Sumrall	Co-Chair	MARM		2020
Andrew Rydzak	Member	MARM		2020
Paige Strunk	Chair	MUP	Wetland Alteration	2019*
Heather McLaine	Chair	MARM		2021*
Brittney Daniels	Chair	MARM	Flood Risk	2021*
Devon Romano	Chair	MARM	Coral Reefs	2022*
Mei Ling Valdes	Member	Marine Bio.		2023*
Mia Peeples	Member	Rice U.	Flood Modeling	2023*
Alicia Peck	Member	MARM		2024
Samantha Young	Member	MARM		2025

Alexis Dorenbosch	Member	MARM	2025*
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\* Graduated

## POST-DOC & RESEARCH SCIENTIST SUPERVISION

Wesley Highfield, Postdoctoral Researcher, 2008-2009.  
 Yoonjeong Lee, Postdoctoral Researcher, 2016-2018.  
 Russell Blessing, Postdoctoral Researcher, 2018-2019.  
 William Mobley, Postdoctoral Researcher, 2018-2019.  
 Kayode Atoba, Postdoctoral Researcher, 2018-2019.  
 Federico Antonoli, Postdoctoral Researcher, 2022-present.

Wesley Highfield, Research Scientist, 2009-2011.  
 Yoonjeong Lee, Research Scientist, 2018-present.  
 Antonia Sebastian, Research Scientist, 2018-2019.  
 Russell Blessing, Research Scientist, 2019-present.  
 William Mobley, Research Scientist, 2020- 2021.  
 Kayode Atoba, Research Scientist, 2020-present.  
 Arash Taghinezhad, Research Scientist, 2022-2023.  
 Jooho Kim, Research Scientist, 2023-present.

Joshua Gunn, Senior Research Associate, 2016-2017.  
 Laura Sterns, Research Associate, 2018-2020; Research Specialist, 2020-present.  
 Ritika Prasai, Research Associate, 2023.



## SERVICE ACTIVITIES

### SELECTED SCIENTIFIC JOURNAL AD HOC REVIEWS

Natural Hazards Review	Land Use Policy
International Journal of Sustainable- Planning & Development	International Journal of Mass Emergencies- & Disasters
Society and Natural Resources	Journal of Planning Literature
Corporate Social Responsibility and Environmental Management	GeoJournal
Journal of Landscape and Urban Planning	Ad Hoc Assignment Editor, Conservation- Biology
International Journal of Epidemiology	Natural Hazards
Journal of the American Planning- Association	Canadian Geographer
Journal of Planning Education and Research	Coastal Management
Journal of Environmental Planning and Management	Climate, Disaster, and Development Journal
Conservation Biology	Risk Analysis

### SELECTED SCIENTIFIC PEER REVIEWS

2023	NSF Ad Hoc review, Human-Environment and Geographical Sciences Program.
2023	NAES GRP, Mississippi River Delta Transitions Initiative (MissDelta) Standing Committee
2021	Oxford Research Encyclopedia of Environmental Science, Land Use Planning for Climate Change Adaptation Along the Shoreline
2021	National Science Foundation, Ad Hoc Proposal Review
2020	National Science Foundation, Ad Hoc Proposal Review
2019	Book Proposal Review, <i>Community Disaster Recovery: Moving from Vulnerability to Resilience</i> , Cambridge University Press.
2018	National Science Foundation, Ad Hoc Proposal Review
2017	National Science Foundation, Ad Hoc Proposal Review
2016	Book Proposal Review, <i>Advanced Techniques for Disaster Mitigation and Management</i> , Elsevier Press.

Fall/Spring, 2016	National Science Foundation Ad Hoc Proposal Review
Fall, 2015	National Science Foundation Ad Hoc Proposal Review
Summer, 2015	National Science Foundation Ad Hoc Proposal Review
Spring, 2015	National Science Foundation Panel Review
Fall, 2014	National Science Foundation, SBE, Ad Hoc Proposal Review
Fall, 2014	National Science Foundation, Geography and Spatial Sciences, Ad Hoc proposal review
Fall, 2014	Proposal Review, Netherlands Organization for Scientific Research (NOW), Council for Earth and Life Sciences (ALW)
Summer, 2013	Georgia Sea Grant Panel Review
Fall, 2013	National Science Foundation Panel Review
Fall, 2012	National Science Foundation Panel Review, Social and Behavioral Sciences.
Spring, 2012	Environmental Protection Agency Technical Review. Benefits of Green Infrastructure in Flood Damage Reduction.
Fall, 2011	National Science Foundation Panel Review, Engineering Directorate.
Summer, 2011	Georgia Sea Grant Research Proposal Review, Athens, GA, August 18.
Spring, 2011	FEMA NFIP Reform Expert Panel, Minimizing Exposure to Flood Hazards, April 12.
Spring, 2011	Texas Sea Grant Proposal Ad Hoc Review.
Spring, 2011	National Science Foundation Ad Hoc Review. Social Behavioral and Economic Sciences.
Spring, 2011	Book Proposal Review, Hydrology of Floods, Cambridge University Press.

Spring, 2010	San Clemente Storm Damage and Shoreline Protection Feasibility Study. Independent External Review. US Army Corps of Engineers/Batelle Corp.
Fall, 2009	Ad Hoc National Science Foundation (NSF) proposal review, Social, Behavior, Economic Sciences Directorate.
Fall, 2009	Book Proposal Review, Flooding and Environmental Change in Fluvial Lowlands, Cambridge University Press.
Spring, 2009	Ad Hoc National Science Foundation (NSF) proposal review, Engineering Directorate.
Spring, 2009	National PERISHIP Award Dissertation Fellowship in Hazards, Risks, and Disasters Proposal Review.
Fall, 2008	Ad Hoc National Science Foundation (NSF) proposal review, Engineering Directorate.
Fall, 2008	Ad Hoc Proposal Review, National Science Foundation (NSF) Panel, Social, Behavioral, and Economic Sciences
Spring, 2008	Ad Hoc Proposal Review, PERISHIP Dissertation Fellowship, National Hazard Center, University of Colorado- Boulder.
Fall, 2007	Ad Hoc Proposal Review, National Science Foundation (NSF) Panel, Social, Behavioral, and Economic Sciences.
Fall, 2007	Book Proposal Review, <i>The Planner's Guide to Natural Resource Conservation: The Science of Land Development Beyond the Urban Fringe</i> , Springer Press.
Spring, 2007	Book Chapter Review, <i>Geospatial Technology and Homeland Security</i> , Springer Press.
Fall, 2006	Proposal Review, National Science Foundation (NSF) Panel, Engineering Directorate
Summer, 2006	Ad Hoc National Science Foundation (NSF) proposal review, Division of Earth Sciences
Spring, 2005	Proposal Review, National Science Foundation (NSF) Panel, MUSES/Biocomplexity Program
Spring, 2004	Proposal Review, National Science Foundation (NSF) Panel
Fall, 2004	Proposal Review, National Science Foundation (NSF) Panel

2003                      Proposal Review, NOAA Sea Grant Program

2002                      Proposal Review, Joshua Venture Fellowship Program for Social  
Entrepreneurs

## **EXPERT PANELS AND WORKSHOPS**

2023 International Symposium on Coastal Flood Risk Reduction: Designing comprehensive solutions to multiple flooding threats. TX A&M University, Galveston, TX. April 26, 2023.

50<sup>th</sup> Anniversary of Environmental Studies at Bowdoin. Environmental Design and Planning Panel. Bowdoin College, Brunswick Maine, April 14, 2023.

NSF Hazard Enabling Workshop, Boulder CO, July 10-11, 2021. Virtual.

Recurrent Flooding Workshop: Identifying and Prioritizing Research Needs. NSF CoPe workshop. Old Dominion University. April 15-16, 2021. Virtual.

DHS Science & Technology (S&T) Flood Event Risk Situational Awareness Ideation Workshop  
September 21-22, 2020.

LA Coastal Master Plan, Predictive Models Technical Advisory Committee meeting, Baton Rouge, LA, September 9, 2020. Virtual.

USACE, Institute for Water Resources, Water Resources Challenges Facing the United States, August 26, 2020.

LA Coastal Master Plan, Predictive Models Technical Advisory Committee meeting, July 8, 2020.

National Science Foundation, Enabling the Next Generation of Hazards and Disasters Researchers Workshop, June 18, 2020.

Gulf of Mexico Ecosystem Service Logic Models & Socio-Economic Indicators (GEMS), Coastal Flooding Metric Selection Review. May 26, 2020.

National Academy of Sciences, Engineering, and Medicine. Visualizing Flood Risk Scoping Meeting, April 17, 2020.

2023 Coastal Master Plan Predictive Models Technical Advisory Committee (PM-TAC) - Webinar 3, April 15, 2020.

National Science Foundation ERC Proposal development meeting. Oregon State University, Corvallis, OR, Feb 4-5, 2019.

LA Coastal Master Plan, Predictive Models Technical Advisory Committee meeting, Baton Rouge, LA, July 8, 2019.

National Science Foundation Partnerships for International Research and Education, site visit and program review, TAMUG, Nov. 19-20, 2018.

Water Resilience Convening Workshop. City of Houston/Water Institute/Rockefeller 100 Resilient Cities, University of Houston, Houston, TX, November 8-9, 2018.

Program DIMI Seminar Multi-Layered Flood Safety: The Netherlands meets the United States, Delft U., Netherlands, May 22, 2018.

NSF PIRE Bi-Annual meeting, Alexandria, VA, April 9-10, 2018.

Dutch Roundtable Discussion: Water Management Houston, Houston, TX, January 26, 2018.

National Academy of Sciences, Engineering, and Medicine (NASEM), Regional Urban Flood Workshop, Phoenix, AZ, January 23, 2018.

Rockefeller Resilience Roundtable, Houston, TX, January 18, 2018.

Flood Apex Research Review Board Meeting, Ballston, VA, May 8-10, 2017.

NAS, Urban Flood Study regional workshop, Towson, MD, April 24-25, 2017.

Tracking Community Resilience: Gulf Research Program Opportunity Analysis Meeting. National Academies of Sciences, Engineering and Medicine, Washington, D.C., February 15-16, 2017.

Flood Apex Research Review Board Meeting, Ballston, VA, December 18-19, 2017.

Rethinking Flood Analytics Colloquium. Learning from Disaster Panel. UNC-Chapel Hill, Chapel Hill, NC. Sponsored by DHS, November 7-9, 2017.

NSF PIRE Principal Investigators Workshop, Office of International Science and Engineering, NSF, Washington, DC, May 16-17, 2016.

Flood Apex Research Review Board Meeting, Washington, DC, March 29-30, 2016.

Flood Risk Reduction Workshop. TU Delft., Delft, Netherlands, Feb 29, 2016.

National Science Foundation, Enabling the Next Generation of Hazards Research. San Diego, CA. February 5-6, 2016.

National Hazards Research and Applications Workshop, Broomfield, CO. July 20-22, 2015.

Workshop on Quantitative Community and Infrastructure Integrated Risk Assessment Approaches. The Water Institute of the Gulf. Baton Rouge, LA. May 13, 2015.

Houston of Tomorrow: Building a Resilient Coastal City. Expert Panel, Glasscock School of Continuing Studies, Rice University. Houston TX. April 15, 2015.

APA/FEMA Flood Symposium: subdivision design in flood hazard areas. Chicago, IL. February 19-20, 2015.

NSF Hazard Enabling Project Workshop, Denver CO. February 4-6, 2015.

FEMA CRS Task Force Meeting, New Orleans, LA. January 26, 2015.

AAG Annual Conference, Coastal Hazard Panel, Tampa Bay, FL. April 8, 2014.

Hazard Reduction and Recovery Center Symposium Panelist, College Station, TX. April 4-5, 2014.

Flood Risk Reduction Colloquium. Delft University, Netherlands, July 22-26, 2013.

NSF ICNET Project workshop. University of New Hampshire, April 25, 2013.

Texas Flood Risk Symposium. TX GLO, Austin, TX, March 19, 2013.

Building global resilience to natural hazards: translating science into action. Wilton Park, England, January 28-30, 2013.

FEMA Community Rating System Weighting Forum, Philadelphia, PA, June 6-9, 2011.

Coastal Resiliency Workshop, TAMU-Galveston, May 27, 2011.

ACSP Administrator's Conference, Planner's Role in Large Multidisciplinary Research Projects. University of Texas, Austin, TX, May 6, 2011.

National Science Foundation, Hazards Enabling Project, Ballston, VA, June 20-23, 2010.

NSF Long Term Ecological Research, Coastal Vulnerability Workshop. Athens, GA, February 22-24, 2010.

Coastal Resiliency Indicators for the Gulf Coast Workshop, Texas A&M University at Galveston, May 13, 2009.

20<sup>th</sup> Anniversary Hazard Reduction and Recovery Center Workshop, TX A&M University, College Station, TX, January 31, 2009.

Natural Hazards Workshop, Broomfield, Colorado, July 11-15, 2009.

Wetland Valuation Assessment Model Certification Review, USACE/Battelle Corp., May – July, 2009.

Community Resilience Indicator Meeting, Coastal Services Center, NOAA, Charleston, SC, May 28-29, 2009.

Coastal Resiliency Indicators for the Gulf Coast Workshop, Texas A&M University- Galveston, May 13, 2009.

Environmental Law Institute, Conservation Thresholds Committee Meeting, Fort Collins, Co, September 18-21, 2008.

Natural Hazards Workshop, Broomfield, Colorado, July 11-15, 2008.

Toward a National Hazard Vulnerability and Resiliency Observatory Workshop, Texas A&M University, College Station, Texas. Sponsored by the National Science Foundation, June, 2008.

National Science Foundation, Hazards Enabling Project, Mentor, 2008-2010.

Hazards and Disaster Researchers Meeting, Boulder, Colorado. Sponsored by University of Colorado, July 2007.

Conservation Thresholds Workshop, Racine, Wisconsin. Sponsored by the Environmental Law Institute, March, 2007.

Hazards and Disaster Researchers Meeting, Boulder, Colorado. Sponsored by Texas A&M University, July 2006.

National Hazards Workshop, Boulder, Colorado, July, 2006.

## **COMMITTEES**

### ***International/National***

NAES GRP, Mississippi River Delta Transitions Initiative (MissDelta) Standing Committee. 2023-2024.

Stakeholder Advisory Board. NSF project, “Collaborative Research: SAI-R: Decision-making Under Evolving and Conditional Risk Associated with Coastal Flood Barriers.” 2022-2024.

4TU Centre for Resilience Engineering, Resilience Ambassador. The Netherlands. 2022-2023.

Extreme Events & Coastal Community Resilience Interdisciplinary Research Team (IRT), Network to Network (N2N) - Gulf of Mexico (GoM), 2021-present.

Rice University ION Academic Network, 2021-present.

Editorial Board, Journal of Coastal and Riverine Flood Risk, 2021-present.

Editorial Board, Water Research Bulletin (WRB), 2021-present.

FEMA, Project Steering Committee (PSC) for the Flood Mitigation Library Website project, 2020.

USACE, Institute for Water Resources, Water Resources Challenges Facing the United States, 2020-present.

National Academy of Sciences, Engineering, and Medicine (NASEM), Urban Flood Report, Contributing Author. 2018-2019.

DHS Science and Technology Directorate Relational, Adaptive Processing of Information and Display Relational (RAPID) Apex Program, Review Board member. September, 2015 to 2020.

National Science Foundation, Hazard Enabling Program Advisory Committee, 2014-2017.

National Science Foundation Infrastructure and Climate Network, Senior Advisory Committee, 2012-2013.

Texas Coastal Resiliency Forum, Steering Committee member, Fall 2009 - 2011.

Environmental Law Institute Conservation Thresholds Program Advisory Committee, 2008 – 2011.

Moderator & Discussant, Shoreline and Coastal Environmental Planning Session, ACSP/ASEOP Conference, July 11, 2008, Chicago, Illinois.

Editorial Board, *Journal of the American Planning Association*, 2006 – 2012.

Editorial Board, *International Journal of Sustainable Planning and Development*, 2004 – 2006.

Moderator & Discussant, Hazards Vulnerability Session, ACSP Conference, November 10-12, 2006, Fort Worth, Texas.

International Scientific Advisory Committee, Annual Conference on Sustainable Planning and Development, 2003-2008.

International Conference on Sustainable Planning and Development, Environmental Legislation and Policy Session Chair, Skiathos, Greece, 2003.

### ***State/Regional***

2022-2024	Executive Committee, Texas Emergency Management Advisory Committee (TEMAC).
2021-present	Texas Integrated Flooding Framework (TIFF) Steering Committee
2021-present	Texas Water Data Initiative Advisory Council
2021	Harris County All Hazards Mitigation Plan Steering Committee
2020-present	TX Flood Organizing Group (FLOG)
2020-present	Interagency Flood Risk Management (InFRM) Academic Council
2020	TX State Emergency Management Advisory Committee
2020-2021	LA Coastal Master Plan, Predictive Models Technical Advisory Committee
2019-present	Gulf-Houston Regional Conservation Plan Steering Committee
2018	Lead Technical Expert, Commission to Rebuild Texas Task Force
2018	State Hazard Mitigation Team (SHMT) Committee Member
2018-present	Greater Houston Partnership, Infrastructure and Resiliency Advisory Committee
2018-19	Houston Flood Consortium Committee
2018- present	Houston Wilderness, Board Member
2018	Buyers Be-Where expo., SWSX festival. TX A&M Discovery Lounge



## ***University or System***

2021	TAMU X-Grant Review Committee
2019	Texas Center for Climate Studies, Executive Committee
2018	TX A&M System, Bill Analysis Task Force
2018	Governor's Commission to Rebuild Texas
2018	TX A&M, Galveston Campus Research Award Committee
2017	Texas Center for Climate Studies, Executive Committee
2017	Regents Professor Review Committee
2016	University Provost Search Committee
2014 - present	Texas Center for Climate Studies Executive Committee
2013 – 2015	George Mitchell Statue Committee
2008 – 2009	University Research Roadmap Committee
2008 – 2009	Council of Principal Investigators, Alternate
2004 – 2005	<i>Phi Beta Kappa</i> , Charter Member
2003 – 2005	Graduate Teaching Academy Mentor Program
2003 – 2005	Executive Committee, Sustainable Coastal Margins Program
2002 – 2005	Advisory Committee, Sustainable Coastal Margins Program
2002 – 2005	Co-chair, Sustainable Coastal Margins Program Education Committee
2002 – 2003	Steering Committee, University Program on Conflict Management and Dispute Resolution

## ***College of Architecture/Galveston Campus***

2020	TAMUG Tenure and Promotion Committee
2019	Research Award Committee
2016	Strategic Enrollment Management Committee
2016	TAMUG COO Search Committee
2015	Chair, TAMUG Tenure and Promotion Committee
2015-	Advisor, TAMUG Conservation Organization
2013-	College Research and Interdisciplinary Council (CRIC)
2010 – 2012	TAMU-G Research Advisory Committee
2008 – 2009	Dean of Architecture Search Committee
2007	Ad Hoc College Grievance Committee
2005 – 2008	College Research and Interdisciplinary Council (CRIC)

## ***Department***

2021	Chair, Marine and Coastal Environmental Science Department T&P Committee
2019	Marine Sciences Department Advisory Committee
2018-19	Marine and Coastal PhD Program Development Committee
2017	Chair, MARS T&P Committee
2016-17	Member, Marine Sciences Department Advisory Committee
2016-17	Member, GIS Librarian Search Committee
2016	Chair, MARS Spatial Sciences Search Committee
2015	Co-Chair, Coastal Environmental Policy Search Committee
2015	Marine Sciences Tenure and Promotion Committee

2015	Chair, Marine Sciences MARM Program Review Committee
2013-	URSC PhD Committee
2013	Member, Promotion and Tenure Committee, LAUP
2013	Member, Promotion and Tenure Committee, Marine Sciences
2012	Chair, Marine Sciences Department, Economist Search Committee
2012	Chair, Marine Sciences Department, MARM External Evaluation Committee
2012-2018	Marine and Coastal Resource Management PhD Development Committee
2012	Marine Sciences Department Executive Committee
2011	Marine Sciences Department GIS Faculty Search Committee
2010-2012	Chair, Promotion and Tenure Committee, Marine Sciences
2010	Marine Sciences Department Head Search Committee
2010	Marine Biology IDP Admissions Committee
2010	PHD Development Committee
Fall, 2009-2010	Marine Sciences Department Strategic Plan Committee
2008 – 2010	Transportation Planning Certificate Council
2008	HRRC Faculty Search Committee
2006 – 2010	Master's of Urban Planning Committee
2005 – 2011	Advisor, Urban and Regional Science Student Organization
2005 –	Urban and Regional Science Program Committee
2004	Co-Chair, Department Search and Replacement Committee
2004	Department Head Search Committee
2004 – 2005	Master's of Land Development Advisory Committee
2002 – 2005	Advisor, Association for Student Planners
2002	Sustainable Coastal Margins Program Senior Faculty Search Committee