

# MERI DAVLASHERIDZE

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## EDUCATION

- 2009-2013    **Ph.D., Agricultural, Environmental and Regional Economics, Pennsylvania State University,**  
University Park, PA, USA  
DISSERTATION: "Hurricane Disaster Impacts, Vulnerability and Adaptation:  
Evidence from US Coastal Economy"  
COMMITTEE: Karen Fisher-Vanden (chair), James S. Shortle, Stephan Goetz, Jenni Evans, H.  
Allen Klaiber
- 2005-2007    **M.S., Agricultural Economics, Texas A&M University,** College Station, TX, USA  
THESIS: "U.S. Farmland Dynamics, Cause-Effect Relationships"  
COMMITTEE: David Bessler (chair), Hae-Shin Hwang, Curtis F. Lard
- 1994-1998    **B.A., Production Economics, Organization and Management, Ivane Javakhishvili State**  
**University of Tbilisi, Georgia** (Diploma with honor)

## ACADEMIC APPOINTMENTS

- 2023-present    **Texas A&M University at Galveston**  
Associate Professor (with tenure), Department of Marine and Coastal Environmental Science
- 2013-2023    **Texas A&M University at Galveston**  
Assistant Professor, Department of Marine and Coastal Environmental Science
- 2021 – present    **Institute for a Disaster Resilient Texas (IDRT), Texas A&M University at Galveston**  
Faculty Research Fellow
- 2019-present    **The University of Central Florida (UCF)**  
Graduate Faculty Scholar, the College of Graduate Studies
- 2013 – 2021    **Center for Texas Beaches and Shores (CTBS), Texas A&M University at Galveston**  
Faculty Research Fellow
- 2014    **Texas A&M University**  
Graduate Faculty, Department of Agricultural Economics

# 1. RESEARCH

## 1.1 Publications

Notes: <sup>1</sup> Underlined author names indicate graduate students and the names with stars indicate undergraduate students under Davlasheridze's advisement.

### 1.1.1 Peer-Reviewed Journal Articles

- (27) Miao, Q., & **Davlasheridze, M.** (2024). Estimating the loss-reduction effects of disaster preparedness and mitigation: An empirical study of US coastal states. *Risk Analysis*, 1-15.
- (26) Miao, Q., Guo, W., Hou, Y., & **Davlasheridze, M.** (2024). Fiscal Implications of Disasters and the Managed Retreat Thereafter: Evidence from Hurricane Sandy. *Natural Hazards Review*, 25(4), 04024036.
- (25) Waters, L., Best, K., Miao, Q., **Davlasheridze, M.**, & Reilly, A. C. (2024). Under-reported and under-served: disparities in US disaster federal aid-to-damage ratios after hurricanes. *International Journal of Disaster Risk Reduction*, 106, 104430.
- (24) Xu, C., Nelson-Mercer, B. T., Bricker, J. D., **Davlasheridze, M.**, Ross, A. D., & Jia, J. (2023). Damage Curves Derived from Hurricane Ike in the West of Galveston Bay Based on Insurance Claims and Hydrodynamic Simulations. *International Journal of Disaster Risk Science*, 14(6), 932-946.
- (23) Lixian Zhong, Matthew Smith, Ning Lyu, **Meri Davlasheridze**, Joy Alonzo, Shinduk Lee, Leslie Wilson, and Marcia Ory. 2020 "Comparing resource utilization and economic burden associated with opioid-related clinical encounters using two case identification criteria" (Accepted, *Journal of Opioid Management*)
- (22) Palinkas, C. M., Orton, P., Hummel, M., Nardin, W., Sutton-Grier, A., Harris, L., Gray, M.W., Ball, D., Burks-Copes, K., **Davlasheridze, M.**, De Schpper, M., George, D.A., Halsing, D., Maglio, C., Marrone, J., Mckay, S.K., Nutters, H., Orff, K., Taal, M., Van Oudenhoven, A., Weatch, W., Williams, T. Innovations in coastline management with natural and nature-based features (NNBF): lessons learned from three case studies. *Frontiers in Built Environment – Coastal & Offshore Engineering*.  
<https://doi.org/10.3389/fbuil.2022.814180>
- (21) Miao, Qing and **Meri Davlasheridze**. 2022. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." *Natural Hazards Review* 23(1): 04021063.  
[https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000534](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000534)
- (20) **Davlasheridze, Meri** and Stephan J. Goetz. (2021). "Explaining Spatial Disparities in Drug Overdoses, 1970-2014" *Review of Regional Studies* 51 (3): 292-316.
- (19) **Davlasheridze, Meri** and Qing Miao. (2021). "Does post-disaster aid promote community resilience? Evidence from federal disaster programs. *Natural Hazards* 109 (1): 63-88.  
<https://doi.org/10.1007/s11069-021-04826-2>

- (18) Retchless, David, William Mobley, **Meri Davlasheridze**, Kayode Atoba, Ashley D. Ross, and Wesley Highfield. (2021). "Mapping Cross-Scale Impacts of Storm Surge Events: Considerations for Design and User Testing." *Journal of Maps*. <https://doi.org/10.1080/17445647.2021.1940325>
- (17) **Davlasheridze, Meri** and Qing Miao. (2021). "Extreme Weather, Public Housing, and the Role of Public Disaster Policy." 2021. *Journal of Regional Science* 61(5): 1113-1135. <https://doi.org/10.1111/jors.12534>
- (16) **Davlasheridze, Meri**, Qin Fan, Wesley Highfield, Jiaochen Liang. (2021). "National & State-wide impacts of Storm Surge." *Climatic Change* 166, 11. <https://doi.org/10.1007/s10584-021-03106-z>
- (15) Miao, Qing, Yu Shi, and **Meri Davlasheridze**. (2021). "Fiscal Decentralization and Natural Disaster Damages: Evidence from the United States" *Public Budgeting & Finance* 41(1), 26-50.
- (14) Fucile-Sanchez, Emily and **Meri Davlasheridze**. (2020). "Adjustments of Socially Vulnerable Populations in Galveston County, TX USA Following Hurricane Ike." *Sustainability* 12(17), 7097. <https://doi.org/10.3390/su12177097>
- (13) Alisha, Fnu, **Meri Davlasheridze**, and Nikolaos Mykoniatis. (2020). "Socioeconomic Drivers of Marine Debris in North America." *Marine Environmental Research* 160. 105042. <https://doi.org/10.1016/j.marenvres.2020.105042>
- (12) **Davlasheridze, Meri** and Qing Fan. (2019). "Valuing Seawall Protection in the Wake of Hurricane Ike." *Economics of Disasters and Climate Change* 3 (3): 257-279. doi; 10.1007/s41885-019-00045-z
- (11) **Davlasheridze, Meri** and Q. Miao. (2019). "Does governmental assistance affect private decisions to insure? An empirical analysis of flood insurance purchases." *Land Economics* 95 (1): 124-145. doi:10.3368/le.95.1.124
- (10) **Davlasheridze, Meri**, Kayoda Atoba, Samuel Brody, Wesley Highfield, William Merrell, Bruce Ebersole, Adan Purdue, R. William Gilmer. (2019). "Economic impacts of storm surge and the cost-benefit analysis of a coastal spine as the surge mitigation strategy in Houston-Galveston area in the USA." *Mitigation and Adaptation Strategies for Global Change* 24 (3): 329-354. doi:10.1007/s11027-018-9814-z
- (9) Fan, Qin and **Meri Davlasheridze**. (2019). "Economic Impacts of migration and Brain Drain after major catastrophe" *Climate Change Economics* 10(01): 1950004. doi:10.1142/S2010007819500040
- (8) Goetz, J. Stephan, **Meri Davlasheridze**, Yicheol Han, David A. Fleming-Muñoz. (2018). "Explaining the 2016 Trump Vote in U.S. Counties." *Applied Economic Perspectives and Policy* ppy026. doi:10.1093/aep/ppy026
- (7) **Davlasheridze, Meri**, Stephan J. Goetz, and Yicheol Han. (2018). "The Effect of Mental Health on U.S. County Economic Growth." *The Review of Regional Studies* 48 (2): 155-171.
- (6) **Davlasheridze, Meri** and Qin Fan. (2017). "Household Adjustments to Hurricane Katrina." *The Review of Regional Studies* 47(1): 93-112.
- (5) **Davlasheridze, Meri** and Pinar C. Geylani. (2017). "Small Business Vulnerability to Floods and the Effects of Disaster Loans." *Small Business Economics* 49(4): 865-888. doi:10.1007/s11187-017-9859-5

- (4) **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber. (2017). "The effects of adaptation measures on hurricane induced property losses: Which FEMA investments have the highest returns?" *Journal of Environmental Economics and Management* 81: 93-114. doi:10.1016/j.jeem.2016.09.005
- (3) Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (2) Fan, Qin and **Meri Davlasheridze**. (2016). Flood Risk, Flood Mitigation, and Location Choice: Evaluating the National Flood Insurance Program's Community Rating System. *Risk Analysis* 36(6), 1125-1147. doi:10.1111/risa.12505
- (1) Goetz, J. Stephan, **Meri Davlasheridze**, and Yicheol Han. (2015). County-Level Determinants of Mental Health, 2002–2008. *Social Indicators Research* 124(2), 657-670. doi:10.1007/s11205-014-0792-6

### 1.1.2 Book Chapters

- (1) **Davlasheridze, Meri** and Kayoda Atoba. (2022). Cost benefit analysis of a proposed coastal infrastructure for reducing storm surge induced impact in the Upper Texas Coast. In Brody S., Lee, Y., and Kothuis, B. (Eds.), *Coastal Flood Risk Reduction in the Netherlands and the U.S. Upper Texas Coast*. Elsevier.

### 1.1.3 Peer-Reviewed Articles under Review

- (5) Miao, Qing, **Meri Davlasheridze**, and Allison Reilly. "Assessing Social Equity of Federal Disaster Aid Distribution: A County-level Analysis." (Revision submitted, *Risk Analysis*)
- (4) Qing Miao, Kelsey Best, Allison Reilly, **Meri Davlasheridze**. "Where did the money go? Assessing the Distribution of the Community Development Block Grant - Disasters Recovery (CDBG-DR) Funds" (Revision requested, *American Review of Public Administration*)
- (3) Miao, Qing and **Meri Dalasheridze**. "Community Choices for Building Resilience and Mitigating Risks: Retreat versus Retrofit". (Revision requested, *Journal of Environmental Management*)
- (2) **Davlasheridze, Meri** and Qin Fan. "Optimal Local Level Adaptation: Evidence from CRS Program Class Choice." (Under review)
- (1) Son, Seokmin, **Meri Davlasheridze**, Ashley Ross, Jeremy Bricker. Effectiveness of the Ike Dike in Mitigating Coastal Flood Risk under Multiple Climate and Sea Level Rise Projections. (Under review)

### 1.1.4 Manuscripts in Preparation for Submission

- (11) **Davlasheridze, Meri**, Qing Miao and Kayode Atoba. "Property Buyouts and housing market"
- (10) **Davlasheridze, Meri**, Wei Guo, Seokmin Kim, Ashley Ross and Jeremy Bricker. "Household sorting and evolving and conditional risk of flood"
- (9) **Davlasheridze, Meri**, Yilin Hou, Qing Miao. "Property Tax Relief after a Natural Disaster: Unscheduled Reassessment with Unintended Equity Consequences."

- (8) **Davlasheridze, Meri** and Stephan J. Goetz. "Opioid Epidemic and Extreme Weather Events."
- (7) **Davlasheridze, Meri**. "Disaster Insurance Market – Review of the literature."
- (6) **Davlasheridze, Meri**, and Abbey Hotard. "Private Wind and Hail Catastrophe Insurance in Texas."
- (5) **Davlasheridze, Meri**, Jeffrey Czajkowski, Juan Zhong. "State Residual Market Mechanisms – Wind Pool and Beach Plans – National Analysis"
- (4) Burgin, Ashton and **Meri Davlasheridze**. "Value of Galveston Beaches and Benefits of Nourishment to Homeowners."
- (3) Hinson, Mae L.\* and **Meri Davlasheridze**. "Water Quality and Health of Coral Reefs." (Manuscript)
- (2) Garcia, Rosa M. and **Meri Davlasheridze**. "Factors Affecting Water Usage from Texas Colorado River."
- (1) **Davlasheridze, Meri**. "Sectoral Impacts and Spillovers of Hurricane Disasters."

### 1.1.5 Work in Progress

- (8) **Davlasheridze, M, Shawn Carter**, Kayode Atoba, Lauren Grimley, Antonia Sebastian, Qing Miao. "Hotspot analysis of property Buyouts in Harris County"
- (5) **Davlasheridze, Meri**. "What Does Federal Disaster Aid Do?"
- (4) **Davlasheridze, Meri**. "The Role of Public Disaster Programs in Labor Market Recovery from Hurricane Disasters."
- (3) **Davlasheridze, Meri**. "Flood Insurance Purchase Behavior and Insurance Tenure when the buyer finances the property by cash: Evidence from Galveston County".
- (2) **Davlasheridze, Meri**. "The Effects of Natural Capital on Mitigating Social Costs of Disasters."
- (1) Weber, Bruce, Katherine Miller, **Meri Davlasheridze**, and Stepan J. Goetz. "USDA Rural Development Programs and Poverty: An Exploration of the Relationship between USDA Rural Business and Economic Development Programs and County Poverty Rates".

### 1.1.6. Outreach and Media Featuring Research (Print)

- (20) Margaronis, Stas. (2021, Oct. 12). Growing Flood Threat to US Infrastructure: First Street. **American Journal of Transportation**. <https://ajot.com/insights/full/growing-flood-threat-to-us-infrastructure-first-street>.

#### RELEVANT WORK:

- **Davlasheridze, Meri**, and Qin Fan. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Chapter 1. Report prepared for the Texas General Land Office *Contract No. 18-159-000-A719*. 2019. <https://idrt.tamug.edu/wp-content/uploads/2021/01/Evaluating-the-Effects-of-a-Coastal-Spine.pdf>
- **Davlasheridze, Meri**, Qin Fan, Wesley Highfield, Jiaochen Liang. (2021). "National & State-wide impacts of Storm Surge." *Climatic Change* 166, 11. <https://doi.org/10.1007/s10584-021-03106-z>

- (19) Jesse, Pound. (2020, June 13). "Much unknown' — In small towns that host big events, timing is crucial for the recovery". *CNBC* (published in economics). [https://www.cnbc.com/2020/06/13/coronavirus-restrictions-on-small-businesses-hoping-for-large-crowds.html?\\_source=twitter%7Cmain](https://www.cnbc.com/2020/06/13/coronavirus-restrictions-on-small-businesses-hoping-for-large-crowds.html?_source=twitter%7Cmain)
- RELEVANT WORK:
- **Davlasheridze, Meri** and Pinar C. Geylani. (2017). "Small Business Vulnerability to Floods and the Effects of Disaster Loans." *Small Business Economics* 49(4): 865-888. doi:10.1007/s11187-017-9859-5
- (18) Margaronis, Stas. (2020, Jan. 27). Texas Pushes projected \$37 billion coastal protection complex. *American Journal of Transportation* (Issue 700). <https://ajot.com/premium/ajot-texas-pushes-projected-37-billion-coastal-protection-complex>.
- RELEVANT WORK:
- **Davlasheridze, Meri**, and Qin Fan. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Chapter 1. Report prepared for the Texas General Land Office *Contract No. 18-159-000-A719*. 2019. <https://idrt.tamug.edu/wp-content/uploads/2021/01/Evaluating-the-Effects-of-a-Coastal-Spine.pdf>
  - **Davlasheridze, Meri**, Qin Fan, Wesley Highfield, Jiaochen Liang. (2021). "National & State-wide impacts of Storm Surge." *Climatic Change* 166, 11. <https://doi.org/10.1007/s10584-021-03106-z>
- (17) Meyers, Talya. (2019, Nov. 14). A Hurricane or Fire. A Spike in Opioid Abuse. A Possible Connection. *Direct Relief*, News Opioid Epidemic. <https://www.directrelief.org/2019/11/a-hurricane-or-fire-a-spike-in-opioid-abuse-a-possible-connection/>
- RELEVANT WORK:
- **Davlasheridze, Meri** and Stephan J. Goetz. (2021). "Explaining Spatial Disparities in Drug Overdoses, 1970-2014" *Review of Regional Studies* 51 (3): 292-316.
  - **Davlasheridze, Meri** and Stephan J. Goetz. "Opioid Epidemic and Extreme Weather Events." (manuscript)
- (16) Davlasheridze, Meri, and Wesley Highfield. (2019, Jul. 20). An Ike Dike would cost billions. It'd save more. *Houston Chronicle*, Opinion/outlook. <https://www.houstonchronicle.com/opinion/outlook/article/An-Ike-Dike-would-cost-billions-It-d-save-14109665.php>.
- RELEVANT WORK:
- **Davlasheridze, Meri**, and Qin Fan. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Chapter 1. Report prepared for the Texas General Land Office *Contract No. 18-159-000-A719*. 2019. <https://idrt.tamug.edu/wp-content/uploads/2021/01/Evaluating-the-Effects-of-a-Coastal-Spine.pdf>
  - **Davlasheridze, Meri**, Qin Fan, Wesley Highfield, Jiaochen Liang. (2021). "National & State-wide impacts of Storm Surge." *Climatic Change* 166, 11. <https://doi.org/10.1007/s10584-021-03106-z>
- (15) Jacobson, Adam. (2019, May 28). Texas Study Shows Business Impact of Major Storms. *The National Law Review*. <https://www.natlawreview.com/article/texas-study-shows-business-impact-major-storms>.
- RELEVANT WORK:
- **Davlasheridze, Meri**, and Qin Fan. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Chapter 1. Report prepared for the Texas General Land Office *Contract No. 18-159-000-A719*. 2019. <https://idrt.tamug.edu/wp-content/uploads/2021/01/Evaluating-the-Effects-of-a-Coastal-Spine.pdf>

- **Davlasheridze, Meri**, Qin Fan, Wesley Highfield, Jiaochen Liang. (2021). "National & State-wide impacts of Storm Surge." *Climatic Change* 166, 11. <https://doi.org/10.1007/s10584-021-03106-z>
- (14) Academic WeiXin ("Academic Wechat"), Chinese Academic Social Media Platform. (2017, Mar. 18). Publication Translated into Chinese URL: <https://mp.weixin.qq.com/s/LSfRg3xnJx4Z0i69MaFdPA>; Wechat has over 900 million active users daily (Bonhomme, 2017; <https://www.ingentaconnect.com/content/hsp/jdsmm/2017/00000005/00000002/art00005>) . "Wechat is a publishing platform for the academic frontier ideas and an integrated platform for different academic views." (Zhao and Wei, 2017; <https://link.springer.com/article/10.1007/s11192-017-2439-2>)
- RELEVANT WORK:
- **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber. (2017). "The effects of adaptation measures on hurricane induced property losses: Which FEMA investments have the highest returns?" *Journal of Environmental Economics and Management* 81: 93-114. doi:10.1016/j.jeem.2016.09.005
- (13) **Oklahoma farm report**. (2016, Apr. 21). "New Study Contends Federal Cooperative Extension Programs Helping Keep Farmers in Business." [http://www.oklahomafarmreport.com/wire/news/2016/04/00350\\_CoopExtensionProgramsFarmers04212016\\_053004.php#.WktqevIXeW6](http://www.oklahomafarmreport.com/wire/news/2016/04/00350_CoopExtensionProgramsFarmers04212016_053004.php#.WktqevIXeW6)
- RELEVANT WORK:
- Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (12) The Northeast Regional center for Rural Development. Regional Rural development Paper No. 5.2016. <https://aese.psu.edu/nardep/publications/policy-briefs/agricultural-sector-and-food-system-development-policy-briefs>
- RELEVANT WORK:
- Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (11) **USDA National Institute of Food and Agriculture**. "Land grant university programs helped keep farmers on the farm."
- RELEVANT WORK:
- Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (10) **Pennsylvania State University (PSU)** press release. "Land grant university programs helped keep farmers on the farm." 2016. <https://aese.psu.edu/nardep/publications/policy-briefs/agricultural-sector-and-food-system-development-policy-briefs>
- RELEVANT WORK:
- Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007



- (9) **Agricultural and Applied Economics Association** press release “Extension Services Keeping Farmers on the Farm”. <https://www.aaea.org/about-aaea/media--public-relations/press-releases/extension-services-keeping-farmers-on-the-farm>  
RELEVANT WORK:  
▪ Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (8) **PSU Northeast Regional Center for Rural Development**. “Infographic: Cooperative Extension's effects on farmer retention”. 2016. <https://aese.psu.edu/nardep/publications/policy-briefs/agricultural-sector-and-food-system-development-policy-briefs>  
RELEVANT WORK:  
▪ Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (7) **National Agricultural & Rural Development Policy Center (NARDeP)**. A Regional Rural Development Centers Initiative. “Policy Options for Keeping Farmers on the Farm”. Policy Brief 37, April, 2016. <https://aese.psu.edu/nardep/publications/policy-briefs/agricultural-sector-and-food-system-development-policy-briefs>  
RELEVANT WORK:  
▪ Goetz, J. Stephan, and **Meri Davlasheridze**. (2017). State-Level Cooperative Extension Spending and Farmer Exits. *Applied Economic Perspectives and Policy* 39(1), 65-86. doi:10.1093/aep/ppw007
- (6) Shiller, Ben. (2014, Sept. 12). The Geography of Happiness: Where Americans Are Happiest and Why. **Fast Company** (online magazine). <https://www.fastcompany.com/3039442/the-geography-of-happiness-where-americans-are-happiest-and-why>.  
RELEVANT WORK:  
▪ Goetz, J. Stephan, **Meri Davlasheridze**, and Yicheol Han. (2015). County-Level Determinants of Mental Health, 2002–2008. *Social Indicators Research* 124(2), 657-670. doi:10.1007/s11205-014-0792-6
- (5) Rough, Jenny. (2018, May 14). Where you live has a bigger impact on happiness and health than you might imagine. **The Washington Post**. [https://www.washingtonpost.com/national/health-science/where-you-live-has-a-bigger-impact-on-happiness-and-health-than-you-might-imagine/2018/05/11/16be7126-2c55-11e8-8ad6-fbc50284fce8\\_story.html?noredirect=on&utm\\_term=.4754c1b33264](https://www.washingtonpost.com/national/health-science/where-you-live-has-a-bigger-impact-on-happiness-and-health-than-you-might-imagine/2018/05/11/16be7126-2c55-11e8-8ad6-fbc50284fce8_story.html?noredirect=on&utm_term=.4754c1b33264).  
RELEVANT WORK:  
▪ Goetz, J. Stephan, **Meri Davlasheridze**, and Yicheol Han. (2015). County-Level Determinants of Mental Health, 2002–2008. *Social Indicators Research* 124(2), 657-670. doi:10.1007/s11205-014-0792-6
- (4) Cmons, Marlene. (2018, Feb. 7). “Drug Abuse Linked to Extreme Weather”. The Nexus Media Stories for Humans, Science and Society, a syndicated newswire covering climate, energy, policy, art and culture. Available online: <https://nexusmedianews.com/climate-change-enters-national-conversation-about-opioid-addiction-16f0420718e3>  
RELEVANT WORK:



- **Davlasheridze, Meri** and Stephan J. Goetz. (2021). "Explaining Spatial Disparities in Drug Overdoses, 1970-2014" *Review of Regional Studies* 51 (3): 292-316.
  - **Davlasheridze, Meri** and Stephan J. Goetz. "Opioid Epidemic and Extreme Weather Events." (manuscript)
- (3) Wolfram, Joel. (2018, Jan. 1). Penn State research links opioid deaths to economic hardship, natural disasters. The WHY.org, the leading public media organization in the Philadelphia Region, including Delaware, New Jersey, Pennsylvania and beyond. <https://why.org/articles/penn-state-research-links-opioid-deaths-economic-hardship-natural-disasters/>  
RELEVANT WORK:
- **Davlasheridze, Meri** and Stephan J. Goetz. (2021). "Explaining Spatial Disparities in Drug Overdoses, 1970-2014" *Review of Regional Studies* 51 (3): 292-316.
  - **Davlasheridze, Meri** and Stephan J. Goetz. "Opioid Epidemic and Extreme Weather Events." (manuscript)
- (2) Swayne, Matt. (2018, Oct. 20). Poor Mental Health Days May Cost the Economy Billions of Dollars. *Northeast Regional Center for Rural Development*. The Pennsylvania State University. Available online: <https://aese.psu.edu/nercrd/news/2018/poor-mental-health-days-may-cost-the-economy-billions-of-dollars>.  
RELEVANT WORK:
- **Davlasheridze, Meri**, Stephan J. Goetz, and Yicheol Han. (2018). "The Effect of Mental Health on U.S. County Economic Growth." *The Review of Regional Studies* 48 (2): 155-171.
- (1) Weber, Bruce. (2017, May 25). Washington, DC. Rural Policy Research Institute, The Oregon State University. Testimony on poverty and economic development programs, for the United States Senate Committee on Agriculture, Nutrition, and Forestry, based on-going collaborative work.  
RELEVANT WORK:
- Weber, Bruce, Katherine Miller, **Meri Davlasheridze**, & Stepan J. Goetz. "USDA Rural Development Programs and Poverty: An Exploration of the Relationship between USDA Rural Business and Economic Development Programs and County Poverty Rates".

### 1.1.7 Reports

- (8) **Davlasheridze, Meri**. "Wind Hail Insurance Market Incentives Study". Submitted to the Texas Department of Insurance (TDI). August, 2022.  
<https://www.tdi.texas.gov/reports/pc/documents/FinalReport-20221108.pdf>
- (7) Qing Miao, and **Meri Davlasheridze**. "Estimating the Loss Reduction Effects of Disaster Preparedness: An Empirical Study of U.S. Coastal States." Submitted to University of New Hampshire (grant supported by NOAA). February, 2022.  
<https://scholars.unh.edu/cgi/viewcontent.cgi?article=1029&context=crrc>
- (6) **Davlasheridze, Meri**. "Summary of Telephone Interviews and Aggregate Level Analysis". Submitted to the Texas Department of Insurance (TDI). March, 2022.
- (5) **Davlasheridze, Meri**. "Private Insurance Market and preliminary survey of windstorm market incentives for homeowners' insurers". Submitted to the Texas Department of Insurance (TDI). December, 2021.

- (4) **Davlasheridze, Meri**, Samuel Brody, Wesley Highfield, Jeffrey Czajkowski. "Study of State Residual Market Mechanisms (Windstorm and Beach Plans). Submitted to Texas Department of Insurance (TDI). June, 2021.
- (3) **Davlasheridze, Meri**, Samuel Brody, Wesley Highfield. "Market Incentives for Private Insurance Markets: Literature Review". Submitted to Texas Department of Insurance (TDI). October, 2020. <https://www.tdi.texas.gov/forms/propertycas/literaturereview20201002.pdf>
- (2) **Davlasheridze, Meri**, Kayoda Atoba, Wesley Highfield, and Samuel Brody. 2015. "Economic Impacts of Coastal Protection from Surge-Induced Flood Damage." December 2015.
- (1) **Davlasheridze, Meri**, and Qin Fan. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Chapter 1. Report prepared for the Texas General Land Office *Contract No. 18-159-000-A719*. 2019. <https://idrt.tamug.edu/wp-content/uploads/2021/01/Evaluating-the-Effects-of-a-Coastal-Spine.pdf>

## 1.2 Grants, Fellowships, & Awards

*Note: Award amount reported in parentheses is for Davlasheridze's portion of project.*

### 1.2.1 External Grants Awarded

- (11) **Texas Department of Insurance**  
PROJECT: "Windstorm Market Incentives Study - Resilient Structures"  
INVESTIGATOR(S): **Meri Davlasheridze** (PI)  
AWARD: \$98,153.00  
DURATION: 09/2023-09/2026
- (10) **University of North Carolina – Chapel Hill (primary sponsor: Department of Homeland Security)**  
PROJECT: "Overcoming Constraints Applying CISA's Infrastructure Resilience Planning Framework to Local and Regional Risk Reduction"  
INVESTIGATOR(S): **Meri Davlasheridze** (PI), Ashley Ross (co-PI)  
AWARD: \$406,023.00  
DURATION: 09/2023-09/2026
- (9) **National Science Foundation: Strengthening American Infrastructure (SAI)**  
PROJECT: "Collaborative Research: SAI-R: Decision under evolving and conditional risk - the effect of coastal flood barriers on distributive equity and building damage"  
INVESTIGATOR(S): **Meri Davlasheridze** (PI), Ashley Ross (co-PI), Jeremy Bricker (co-PI, University of Michigan)  
AWARD: \$770,000 (TAMUG share \$440,000)  
DURATION: 09/2022-08/2025
- (8) **Texas OneGulf Center of Excellence**  
PROJECT: "Flood Risk and Vulnerability: Evaluating the Fiscal and Social Implications of Property Buyouts in Flood-prone Communities"  
INVESTIGATOR(S): **Meri Davlasheridze** (PI), Kayoda Atoba (co-PI), William Mobley (co-PI, University of Texas), Antonia Sebastian (co-PI, University of North Carolina), Qing Miao (co-PI, Rochester Institute of Technology)  
AWARD: \$149,974  
DURATION: 09/2022-08/2023

- (7) **Texas Department of Insurance**  
PROJECT: "Wind Hail Insurance Market Incentives Study" Phase II  
INVESTIGATOR(S): **Meri Davlasheridze** (PI), Samuel Brody (co-PI), Wesley Highfield (co-PI).  
AWARD: \$243,579 (\$243,448)  
DURATION: 4/2021-08/2022
- (6) **National Science Foundation - PIRE (Programs in International Research and Education)**  
PROJECT: "Coastal Flood Risk Reduction Program: Integrated, multi-scale approaches for understanding how to reduce vulnerability to damaging events"  
INVESTIGATOR(S): Samuel Brody (PI), **Meri Davlasheridze** (co-PI), Wesley Highfield (co-PI), William Merrell (co-PI), Jens Figlus (co-PI), Erik Bardenhagen (co-PI), Galen Newman (co-PI), Philip Berke (co-PI)  
AWARD: \$3,600,000 (\$109,915)  
DURATION: 10/2015-09/2023
- (5) **National Oceanic Atmospheric Association (Sub-awarded from Rochester Institute of Technology)**  
PROJECT: "Does Preparedness Reduce Losses from Coastal Hazards? An Empirical Study of U.S. Counties"  
INVESTIGATOR(S): Qing Miao (PI) and **Meri Davlasheridze** (co-PI)  
AWARD: \$62,631 (\$9,500)  
DURATION: 5/2021-01/2022
- (4) **Texas Department of Insurance**  
PROJECT: "Wind Hail Insurance Market Incentives Study" Phase I  
INVESTIGATOR(S): **Meri Davlasheridze** (PI), Samuel Brody (co-PI), Wesley Highfield (Co-PI).  
AWARD: \$51,728 (\$51,694.25)  
DURATION: 7/2020-10/2021
- (3) **Texas General Land Office**  
PROJECT: "Evaluating the Effects of a Coastal Spine: National-Level Economic ripples and Effects on Flood Insurance"  
INVESTIGATOR(S): Wesley Highfield (PI), **Meri Davlasheridze** (co-PI), Samuel Brody (co-PI), Ashley Ross (co-PI), David Retchless (Co-PI)  
AWARD: \$1,594,189 (\$177,729.70)  
DURATION: 1/2017-12/2018  
CONTRIBUTION: **Led** the economic part of this study about understanding national-level ripple effects of a storm surge suppression system.
- (2) **Texas General Land Office**  
PROJECT: "Identifying the future costs of floods in Houston-Galveston Area"  
INVESTIGATOR(S): Wesley Highfield (PI), **Meri Davlasheridze** (co-PI), Samuel Brody (co-PI), William Merrell (Co-PI)  
AWARD: \$168,627 (\$10,353.36)  
DURATION: 3/2017-12/2017
- (1) **University of Texas Medical Branch (UTMB)**  
PROJECT: "Advancing the Ike Dike Concept to Protect the University of Texas Medical Branch and Its Associated communities"  
INVESTIGATOR(S): William Merrell (PI) and **Meri Davlasheridze** (co-PI)  
AWARD: \$250,000 (\$16,389)  
DURATION: 5/2013-08/2015

### 1.2.2 Internal Grants Awarded

(1) **Texas A&M University T3 Triads for Transformation**

PROJECT: "Opioid Epidemics' Impact on Older Adults"

INVESTIGATOR(S): Ory Marcia (PI), **Meri Davlasheridze** (co-PI), Lixian Zhong (co-PI)

AWARD: \$30,000 (\$10,000)

DURATION: 3/2018 – 3/2020

### 1.2.3 Fellowships & Awards

Travel Grant for Camp Resources XXIII Workshop. (\$800). The Center for Environmental and Resource Economic Policy, North Carolina State University. August, 2016

Research Support Grant (\$500), Energy and Environmental Economics and Policy Initiative (EEEPI), The Pennsylvania State University, Fall, 2012

Thomas C. and Jackie M. Floore Memorial Scholarship Award (\$600), College of Agricultural Sciences, The Pennsylvania State University

Research Support Grant (\$750), Energy and Environmental Economics and Policy Initiative (EEEPI), The Pennsylvania State University; Spring, 2012

Graduate Student Travel Awards, (\$300), College of Agricultural Sciences, The Pennsylvania State University; Spring, 2012

Conference Scholarship Award, Northeast Agricultural and Resource Economics Association (NAREA); 2012

Edmund Muskie Graduate Fellowship (full scholarship for 2-years), Bureau of Educational & Cultural Affairs, US Department of State.

### 1.3 Research Presentations

*Note: Underlined author name indicates graduate student and the name with star indicates undergraduate student under Davlasheridze advisement. Name bolded indicates presenter.*

#### 1.3.1 Academic Conferences (Domestic)

(37) **Meri Davlasheridze**, Qing Miao and Kayode Atoba. "Floodplain Buyouts, Housing Values and Public Finance: Evidence from Texas." Paper Presentation. American Economic Association Annual Meeting. January 5-7, 2024. San Antonio, TX.

(36) **Meri Davlasheridze**, Qing Miao and Yilin Hou. "Property Tax Administration" Paper Presentation. American Society for Public Administration. November, 2023

(35) **Meri Davlasheridze**, Qing Miao and Kayode Atoba. "Floodplain Buyouts, Housing Values and Public Finance: Evidence from Texas." Paper Presentation. American Society for Public Administration. March 20-24, 2023 (virtual).

(34) **Miao, Qing**, Meri Davlasheridze, and Allison Reilly. "Assessing Social Equity of Federal Disaster Aid Distribution: A County-level Analysis." American Society for Public Administration. March 20-24, 2023 (virtual).

- (33) **Miao, Qing**, Meri Davlasheridze, and Allison Reilly. "Assessing Social Equity of Federal Disaster Aid Distribution: A County-level Analysis." Western Regional Science Association Meeting (Hawaii). 2023.
- (32) **Meri Davlasheridze**, Qing Miao and Kayode Atoba. "Floodplain Buyouts, Housing Values and Public Finance: Evidence from Texas." Paper Presentation. Association for Public Policy Analysis and Management (APPAM) 2022 Fall Research Conference. Washington DC. November 17-19.
- (31) **Miao, Qing** and Meri Davlasheridze. "Estimating the Loss Reduction Effects of Disaster Preparedness and Mitigation: An Empirical Study of U.S. Coastal States." Paper Presentation. Association for Public Policy Analysis and Management (APPAM) 2022 Fall Research Conference. Washington DC. November 17-19.
- (30) Miao, Qing and **Meri Davlasheridze**. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." Paper Presentation. Presidential session "Understanding and Improving Resilience to Hurricanes and Floods." Southern Economic Association, Houston, TX. Nov. 20-22, 2021.
- (29) Miao, Qing and **Meri Davlasheridze**. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." Paper Presentation. Eastern Economic Association Meeting, Boston, Feb 28- March 3, 2020.
- (28) Davlasheridze, Meri and **Qin Fan**. "Flood Risk and Floodplain Management Planning: Examining Factors Driving Community Rating System Participation". The North American Regional Science Council (NARSC) 2020 Conference (Virtual), November 9-13, 2020.
- (27) **Miao, Qing**, Meri Davlasheridze, Michael Abrigo, Yilin Hou. "Understanding the Financial Impacts of Natural Disasters and Climate Change - Hurricane Sandy and Its Fiscal Implications in New York State." Panel Paper Presentation. Association for Public Policy Analysis and Management (APPAM) 2020 Fall Research Conference (Virtual). November 11-13.
- (26) **Miao, Qing**, and Meri Davlasheridze. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." Paper Presentation. Southern Political Science Association (SPSA) Annual Meeting. San Juan, Puerto Rico 2020.
- (25) **Miao, Qing**, and Meri Davlasheridze. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." Panel Paper Presentation. Association for Public Policy Analysis and Management (APPAM) 2019 Fall Research Conference. November 7-9, Denver, CO.
- (24) Davlasheridze, Meri, **Qin Fan**, Jiauchen Liang, and Wesley Highfield. "Evaluating the Effects of a Coastal Spine: National-Level Economic Ripple Effects of Storm Surge Events." Selected Paper Presentation. The 94<sup>th</sup> Western Economic Association International Conference, San Francisco, CA. June 28 – July 2, 2019.
- (23) **Bordelon, Sara,\*** and M. Davlasheridze. "FEMA Funding Of Wetland Conservation As A Preventative Measure Against Hurricane Damage." Poster Presentation. Society of Wetland Scientists (SWS). 2019 Annual Meeting. The Role of Wetlands in Meeting Global environmental Challenges: Linking Wetland Science, Policy and Society. Poster Presentation. Baltimore, MD. May 28-31, 2019.
- (22) **Garcia, M. Rosa**, and Meri Davlasheridze. "Factors Affecting Water Usage From Texas' Colorado River." Paper Presentation. Center for National Resource Economics and Policy (CNEP), Challenges of Natural

- Resource Economics and Policy 6th National Forum on Socioeconomic Research in Coastal Systems. New Orleans, LA. May 19-21, 2019.
- (21) **Davlasheridze, Meri** and Qing Miao. "Natural Disasters, Public Housing, and the Role of Disaster Aid." Paper Presentation. Southern Regional Science Association (SRSA) 2019 Annual Meeting. Arlington VA. April 4-6, 2019.
- (20) **Lixian Zhong**, Meri Davlasheride, and Marcia Ory. "Opioid misuse-related health care resource utilization and costs in Texas." Academy of Managed Care Pharmacy (AMCA) 2019 Annual Meeting. Poster Presentation. San Diego, CA. March 26-28, 2019.
- (19) Davlasheridze, Meri, and **Qing Miao**. "Natural Disasters, Public Housing, and the Role of Disaster Aid." Paper Presentation. American Society for Public Administration (ASPA) 2019 Annual Meeting. March 8-12, Washington, DC.
- (18) **Davlasheridze, Meri**, and Qing Miao. "Relative Effectiveness of Federal Disaster Programs. Post-disaster Aid and Community Resilience: Empirical Evidence from U.S. Counties." Paper Presentation. Association for Public Policy Analysis and Management (APPAM), Annual Meeting, Washington DC. November, 2018.
- (17) **Fan, Qin**, and Meri Davlasheridze. "Economic impacts of migration and brain drain after Hurricane Katrina." Paper Presentation. The 57th Annual Meeting of the West Regional Science Association (WRSA), California, February 11-14, 2018.
- (16) **Goetz, J. Stephan**, and Meri Davlasheridze. "Explaining Spatial Disparities in Drug Overdoses, 1970-2014." Invited Paper Presentation. the Allied Social Sciences Association Annual Meeting, Session on The Geography of American Despair and Declining Economic Opportunity, Philadelphia, PA, January 6, 2018.
- (15) Davlasheridze, Meri and **Qing Miao**. "Extreme Weather, Public Housing, and the Role of Disaster Aid." Paper Presentation. Association for Public Policy Analysis and Management (APPAM), Annual Meeting, Chicago, IL. November, 2017.
- (14) **Davlasheridze, Meri** and Qing Miao. "Does Federal Disaster Assistance Affect Private Protection Behavior: An Empirical Analysis of Household Purchase of Flood Insurance." Paper Presentation. Association for Public Policy Analysis and Management (APPAM), Annual Meeting, Washington DC. November, 2016.
- (13) **Davlasheridze, Meri** and Q. Miao. "Does Federal Disaster Assistance Affect Private Protection Behavior: An Empirical Analysis of Household Purchase of Flood Insurance." Selected Paper Presentation. Camp Resources XXIII Workshop. The Center for Environmental and Resource Economic Policy, North Carolina State University. Wrightsville Beach, NC. August, 2016.
- (12) **Davlasheridze, Meri** and Pinar C. Geylani. "The Effects of SBA Disaster Loans on Small Business Survival." Selected Paper Presentation. Southern Economic Association (SEA), Annual Meeting, New Orleans, LA. November, 2015.
- (11) **Davlasheridze, Meri** and Pinar C. Geylani. "The Effects of SBA Disaster Loans on Small Business Survival." Panel Paper. Association for Public Policy Analysis and Management (APPAM), Annual Meeting, Miami, FL. November, 2015.

- (10) **Davlasheridze, Meri** and Qin Fan. "The Effects of Structural Mitigation in the Wake of Catastrophe: A Spatial Difference-in-Difference Approach." Poster Presentation. Association of Environmental and Resource Economists (AERE) 4<sup>th</sup> Annual Summer Conference. San Diego, California, June, 2015.
- (9) **Davlasheridze, Meri**, and Qin Fan. "Adjustments to Hurricane Katrina and Local Economic Impacts." Selected Paper Presentation. Southern Economic Association (SEA), Annual Meeting, Atlanta, GA. November, 2014
- (8) **Davlasheridze, Meri**, Karen Fisher-Vanden and H. Allen Klaiber, "The effects of adaptation measures on hurricane induced property losses." Panel Paper. Association for Public Policy Analysis and Management (APPAM), Annual Meeting, Albuquerque, NM. November, 2014.
- (7) Fan, Qin, and **Meri Davlasheridze**. "Evaluating Cost-Effectiveness of Flood Mitigation Policies". Selected Paper Presentation. Agricultural and Applied Economics Association (AAEA), Annual Meeting, Minneapolis, MN. August, 2014.
- (6) **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber, "Hurricane Disaster and Local Labor Markets: Evidence from County Level Quarterly Employment Analysis". Paper Presentation, Heartland Environmental and Resource Economics Workshop at Illinois, Urbana-Champaign, Illinois, November, 2013.
- (5) Fan, Qin, and **Meri Davlasheridze**. "The Effects of National Flood Insurance Program on Residential Location Choices in California". Poster Presentation, Heartland Environmental and Resource Economics Workshop at Illinois, Urbana-Champaign, Illinois, November, 2013.
- (4) **Davlasheridze, Meri**, M., Karen Fisher-Vanden, and H. Allen Klaiber, "Higher Order Impacts of Hurricanes: Evidence from County Level Analysis Using Synthetic Control Methodology of Comparative Case Studies". Poster Presentation, Agricultural and Applied Economics Association (AAEA), Annual Meeting, Washington, DC, August, 2013.
- (3) **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber, "The effects of adaptation measures on hurricane induced property losses." Poster Presentation, Agricultural and Applied Economics Association (AAEA), Annual Meeting, Seattle, WA, August, 2012.
- (2) **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber, "The Effects of Adaptation Measures on Hurricane Induced Property Losses." Session Paper Presentation, Association of Environmental and Resource Economists (AERE), Annual Meeting, Asheville, NC, June, 2012.
- (1) **Davlasheridze, Meri**, Karen Fisher-Vanden, and H. Allen Klaiber, "The Effects of Adaptation Measures on Hurricane Induced Property Losses." Session Paper Presentation, Northeast Agricultural and Resource Economics Association (NAREA) Annual Meeting, Lowell, MA, June, 2012.

### 1.3.2 Academic Conferences (International)

- (5) **Davlasheridze, Meri**, and Stephan Goetz. "Persistent Effects of floods on opioid-mortality." Invited Paper Presentation. Regional Science World Congress (Virtual), May 25-28, 2021.



- (4) Miao, Qing, and **Meri Davlasheridze**. "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." Paper Presentation Regional Science World Congress (Virtual), May 25-28, 2021.
- (3) **Goetz, J. Stephan**, Meri Davlasheridze, Yicheol Han. "Explaining the 2016 Trump Vote in U.S. Counties." Paper Presentation. Regional Science Association Australia Conference of Fragmented Regional Worlds: Inequality and Populism in a Globalizing World. Sydney, Australia 2017.
- (2) **Hinson, M.L.\***, and Meri Davlasheridze. "Water Quality and Health of Coral Reefs." Poster Presentation. 13<sup>th</sup> International Coral Reef Symposium. Bridging Science and Policy. Poster Presentation. Honolulu, HI, 19-24 June, 2016.
- (1) Fan, Qin, and **Meri Davlasheridze**. "Evaluating Cost-Effectiveness of Flood Mitigation Policies". Contributed Sessions Paper Presentation. The World Congress of Environmental and Resource Economists (WCERE), Istanbul, Turkey. June 2014.

### 1.3.3 Invited Research Talks

- (28) National Association of Insurance Commissioners. Western Zone meeting. "Private Insurance Market Incentives Study." October 10, 2023; San Antonio, TX. 2023.
- (27) Harris and Galveston Area Council (HGAC). Regional Flood Management Council Meeting. "The Effects of floodplain buyouts on local housing market: evidence from Harris County, Texas" (virtual). April 19, 2023.
- (26) NOAA OR&R's Disaster Preparedness Program and the University of New Hampshire's Coastal Response Research Center. Value of Disaster Preparedness – Webinar #2. (Virtual). April 18, 2023. (with Qing Miao)
- (25) Arizona State University. School of Public Affairs (SPA). Seminar. "Managed Retreat in the Face of Climate Change." February 15, 2023. Phoenix, Arizona.
- (24) University of Florida. Department of Food and Resource Economics. Seminar. "Assessing Social Equity of Federal Disaster Aid Distribution: A County-level Analysis." January 27, 2023. Gainesville, Florida.
- (23) Northeastern University. Department of Economics. Seminar Series (Virtual). "The Persistent Effects of Natural Disasters on Opioid Deaths." March 21, 2022.
- (22) Arizona State University. Center for Environmental Economics and Sustainable Policy. Environment, Resource and Energy Economics (EREE) Seminar. "Assessing Social Equity of Federal Disaster Aid Distribution: A County-level Analysis.", November 19, 2021. (with Qing Miao)
- (21) National Science Policy Symposium, National Science Policy Network. "Mental health and environmental justice." November 19, 2021. [https://symposium.scipolnetwork.org/?page\\_id=21](https://symposium.scipolnetwork.org/?page_id=21)
- (20) The Propeller Club of Northern California (Virtual Conference). "Update on the Texas Coastal Spine Project." November 3, 2021. <https://propellerclubnortherncalifornia.org/storms-flooding-sea-level-defense-conference-nov-3-2021/conference-agenda/>

- (19) The Propeller Club of Northern California (Virtual Conference). "Strategy for Storms, Flooding & Sea Level Defense Investments." April 13, 2021.  
<https://propellerclubnortherncalifornia.org/strategy-for-storms-flooding-sea-level-defense-investments-conference-2021/slsld-2021-conference-agenda/>
- (18) Seminar in Water Economics (SWELL). Seminar series (Virtual). "What Drives Voluntary Government Buyouts of Flood-zone Properties: Empirical Evidence from U.S. Counties." December 8, 2020.  
<https://www.erikansink.com/swell/>.
- (17) The Propeller Club of Northern California. National Strategies for Storms, Flooding & Sea Level Defense Conference (Virtual). "Texas: \$12B Galveston Bay Storm Surge Gate. Invited Presenter and panelist November 18-19, 2020.  
<https://propellerclubnortherncalifornia.org/sfsld-webinar-videos/>.
- Number of attendees: 210 people (~ 50% Coastal engineers, PEs, contractors, Port and maritime officials ~ 40%, Students ~ 10%)
  - The locations of attendees Hawaii, Washington, California, Texas, Louisiana, New York & New Jersey, the Netherlands, India, and Spain.
- (16) NSF-sponsored Coastlines and People (CoPe) Research Coordination Network (Virtual Workshop). Estuarine CoPe RCN Webinars Panel: Innovations in Nature-Based Systems for Coastal Protection Coastal Texas Protection and Restoration Study. "Storm surge risk reduction and large-scale coastal protection projects." November 17, 2020.  
<https://www.umces.edu/events/coastlines-and-people-web-panel-texas-coastal-spine-in-houstongalveston>.
- (15) Texas A&M University. The 2019 President's Excellence Fund Symposium. "Opioid misuse-related health care resource utilization and costs in Texas." College Station, TX. April 4, 2019. (with Lixian Zhong, Marcia Ory)
- (14) Consortium for Climate Risk in the Urban Northeast (CCRUN), A NOAA Regional Integrate Science and Assessments (RISA) Project; CCRUN Green Infrastructure, Climate, and Cities Seminar Series. "The effects of adaptation measures on hurricane-induced property losses: Which FEMA investments have the highest returns?" Virtual Workshop. February 6, 2019.  
Online abstract: <http://www.ccrun.org/resources/seminars/abstracts>;  
Video: <https://www.youtube.com/watch?v=mmDJXcoeS8o&feature=youtu.be>
- The CCRUN Team is comprised of investigators from the six institutions: Boston University (BU), Columbia University (CU), Drexel University, Hunter College of the City University of New York (CUNY), Rutgers University, and Steven Institute of Technology (Stevens).
- (13) National Hurricane Conference. "Persistent Effects of floods on opioid-mortality." New Orleans, LA. April 25, 2019.
- (12) TU Delft university. Architecture & the Build Environment. The Deltas, Infrastructure & Mobility Initiative (DIMI) Seminar - Multi-Layered Flood Safety: The Netherlands meets the United States. "Disaster management and insurance." Delft, the Netherlands, May 22, 2018.
- (11) Texas A&M University at Galveston. Board of Directors Meeting "Valuing Seawall Protection in the Wake of Hurricane Ike." Galveston, TX. January 28, 2016.

- (10) The Pennsylvania State University. Program of Integrated Assessment Model Development, Diagnostics and Inter-Model Comparisons (PIAMDDI) Project Meeting. "Economic Impacts of Brain Drain Induced by Hurricane Katrina." State College, PA. October, 2015.
- (9) Galveston Park Board. Board of Trustees Meeting. "The Value of Beach Quality Using the Hedonic Pricing Model in Galveston, Texas." Galveston, TX. March, 2016. (with Ashton Burgin)
- (8) Stanford University. Program of Integrated Assessment Model Development, Diagnostics and Inter-Model Comparisons (PIAMDDI) Project Meeting. "Adjustments to Hurricane Katrina and Local Economic Impacts." Stanford, CA. December, 2014.
- (7) Texas A&M University at Galveston. MARB/MARS/OCNG Graduate Seminar 681 "Local Labor Markets and Recovery from Hurricane Disasters". Galveston, TX. March, 2014.
- (6) Stanford University. Program of Integrated Assessment Model Development, Diagnostics and Inter-Model Comparisons (PIAMDDI) Project Meeting. "Regional Economic Impacts of Hurricane Disasters". Stanford, CA. December, 2013.
- (5) Texas A&M University. Department of Agricultural Economics. "Hurricane Disaster Spillovers: Evidence from Quarterly Employment Analysis". College Station, TX. October, 2013.
- (4) The Pennsylvania State University. Energy and Environmental Economics and Policy Initiative (EEEPI) Seminar Series. "The effects of adaptation measures on hurricane induced property losses". University Park, PA. October, 2012.
- (3) The Pennsylvania State University. Program of Integrated Assessment Model Development, Diagnostics and Inter-Model Comparisons (PIAMDDI) Project Meeting. "The effects of adaptation measures on hurricane induced property losses." University Park, PA. May, 2012.
- (2) Stanford University. Program of Integrated Assessment Model Development, Diagnostics and Inter-Model Comparisons (PIAMDDI) Project Meeting. "The effects of adaptation measures on hurricane induced property losses." Stanford, CA. December, 2012.
- (1) Pennsylvania State University. Graduate Student Symposium. "The effects of adaptation measures on hurricane induced property losses." University Park, PA. March, 2012.

#### **1.4 Original Data Collection**

##### **Market Incentives Study – Windstorm and Hail Insurance, November 2021 - March 2022**

SITE(S): Texas State

NUMBER OF RESPONDENTS: Online survey of Insurers Writing Residential (54) and Commercial Properties (50); follow-up telephone surveys of selected 11 insurers.

COLLABORATOR(S): Jeffry Czajkowski (NAIC), Lisa Groshong (NAIC), TAMUG PhD students: Abbey Hotard, Virginia Greb, Shawn Carter

#### **1.5 Other Grants & Independent Research**

Democracy Commission Small Grant Program, United States Embassy in Georgia – “Fostering Sustainable Tourism Development in Abastumani”, Coalition project of Muskie Alumni Association of Georgia (MAAG) and Abastumani Tourism Association (ATA) (Amount: \$16,035), 2009

Alumni Grants Program, United States Embassy in Georgia, set up applied workshop on business simulation and forecasting methods introducing SIMETAR software, I. Chavchavadze State University of Georgia (Amount: \$3,000), 2009

Freelance Research for Business & Finance Consulting on SME Financing Industry in India, 2007

Financial & Credit Relations Scientific & Research Paper Publication of Agrarian University of Tbilisi, Georgia, 2001

## 2. TEACHING

### 2.1 Course Instruction

#### 2.1.1 Courses Taught

##### **Coastal and Ocean Resource (MARS280)**

DESIGNATION (COURSE HOURS): Undergraduate (3); **Required** for the Coastal Environmental Science and Society (CESS) Major; **Writing Intensive (W)**; **International Cultural Diversity (ICD)** course  
DESCRIPTION: This course addresses the importance of oceans and coastal resources (renewable and non-renewable), the rights of exploiting them, “tragedy of the commons” as it relates to the management of fisheries, whale stocks and coastal ecosystems, human impacts on coastal and ocean environment as well as issues concerning pollution, overharvesting, and the global climate change

##### **Quantitative Methods for Resource Management I (MARS 603)**

DESIGNATION (COURSE HOURS): Graduate (3); **Required** for the masters’ in Marine Resource Management (MARM) and PhD in Marine and Coastal Management and Science (MCMS)

DESCRIPTION: This course introduces quantitative methods and reasoning in empirical research. It thoroughly covers descriptive and inferential statistical techniques and linear regression model, provides in-depth introduction of a statistical software (e.g., STATA) to manage data, conduct statistical analysis, builds students skills to interpret empirical findings, and write about the results to communicate them clearly and effectively to general audience

##### **Quantitative Methods for Resource Management II (MARS 604)**

DESIGNATION (COURSE HOURS): Graduate (3); **Required** for the masters’ in Marine Resource Management (MARM) and PhD in Marine and Coastal Management and Science (MCMS)

DESCRIPTION: This course is the second in a two-semester sequence of the graduate-level quantitative methods course. It aims to extend the knowledge of quantitative methods beyond basic statistical inference and the linear regression models studied in MARS 603. The course covers advanced topics and quantitative methods used for resource management and policy related research. The emphasis is made on panel data models, random effects and fixed effects models, spatial regression analysis, instrumental variable model, nonlinear models and maximum likelihood estimation, binary and multinomial response models, and regression models for count data. Students advance skills involving research design, employing statistical software to manage large datasets, conduct statistical analysis, integrate and interpret empirical findings into research designs.

##### **Introductory Statistics (STAT 303)**

DESIGNATION (COURSE HOURS): Undergraduate (3); **Required** for the CESS major

**DESCRIPTION:** This course is intended for students in the social sciences and covers concepts of random sampling, random variation of data and statistical inference. Statistical methods include estimation and hypothesis testing of means and variances, analysis of variance, regression analysis.

**Environmental Valuation: Applications to Marine and Coastal Environment (MARS 489/689)**

**DESIGNATION (COURSE HOURS):** Undergraduate/Graduate (3)

**DESCRIPTION:** This course blends the theory and econometrics of non-market valuation (e.g., revealed and the stated preferences methods) through hands-on applications of methods and real datasets. It addresses the importance of the valuation of non-market resources for environmental decision making.

## 2.1.2 Guest Lectures

**Gr2R Meeting (Graduate to Research) (Instructure Dr. Wyndlyn Von Zharen)**

**DESCRIPTION:** Faculty research introduction, Guest lecture/presentation (“Economic Impacts of Brain After Hurricane Katrina”)

**YEAR CONTRIBUTED:** Spring, 2015

**Marine Science Matters (MARS 101) (Instructor: Dr. Kyeong Park)**

**DESCRIPTION:** A non-technical introduction to the field of marine science, including biology, ocean activities, and marine industries. Guest lecture/presentation (“Living Marine Resources”),

**YEAR CONTRIBUTED:** Fall, 2018, 2019

**Marine Sciences Seminar (MARS 681) (Instructor: Dr. Ross)**

**DESCRIPTION:** Presentation of recent research by students, faculty and visiting faculty. Overview of professional norms and tactics for successful graduate study. Guest lecture/presentation (overview of research)

**YEAR CONTRIBUTED:** Fall, 2018, 2019

**Human Impacts in the Marine Environment (MARB689) (Instructor: Dr. Ana Sirovic)**

**DESCRIPTION:** Guest lecture/presentation (“Economic Impacts of Natural Disasters and the Efficacy of federal disaster aid”)

**YEAR CONTRIBUTED:** Fall, 2020

## 2.2 Course Instructions and Evaluations

### 2.2.1 Timeline of Course Instructions at Texas A&M University at Galveston

Year	Semester	Course	Topics	Students Enrolled	Total Credit Hours
2013	Fall	MARS 280	Coastal & Ocean Resource	30	90
2014	Spring	STAT 303	Introductory Statistics	23	69
2014	Spring	MARS 485 410	Problems in Marine Sciences	1	1
2014	Fall	MARS 280	Coastal & Ocean Resource	37	111
2015	Spring	STAT 303	Introductory Statistics	22	66
2015	Spring	MARS 489/689	Environmental Valuation: Applications to Marine and Coastal Environment	9	27
2015	Fall	MARS 280	Coastal & Ocean Resource	34	102
2016	Spring	STAT 303	Introductory Statistics	22	66

2016	Spring	MARS 689/602	Quantitative Methods for Resource Management	7	21
2016	Spring	MARS 491 402	Research	2	6
2016	Spring	MARS 491 404	Research	2	2
2016	Spring	MARS 691 615	Research	1	6
2016	Summer	MARS 691 256	Research	1	3
2016	Fall	MARS 280	Coastal & Ocean Resource	28	84
2016	Fall	MARS 685 602	Direct Studies	1	3
2017	Spring	STAT 303	Statistical Methods	24	72
2017	Spring	MARS 603	Quantitative Methods for Resource Management	9	27
2017	Spring	MARS 691 615	Research	2	9
2017	Summer	MARS 691 256	Research	1	3
2017	Fall	MARS 280	Coastal & Ocean Resource	24	72
2017	Fall	MARS 685 601	Direct Studies	1	3
2017	Fall	MARA 691 601	Research	1	1
2018	Spring	STAT 303	Introductory Statistics	17	51
2018	Spring	MARS 603	Quantitative Methods for Resource Management	14	42
2018	Spring	MARS 685 603	Direct Studies	1	4
2018	Spring	MARS 685 604	Direct Studies	1	1
2018	Spring	MARS 691 615	Research	2	4
2018	Summer	MARS 491 402	Research	1	3
2018	Summer	MARS 691 256	Research	1	6
2018	Fall	MARS 280	Coastal & Ocean Resource	25	75
2018	Fall	MARS 691 601	Research	2	7
2019	Spring	STAT 303	Introductory Statistics	24	72
2019	Spring	MARS 603	Quantitative Methods for Resource Management	5	15
2019	Spring	MARS 491 412	Research	1	4
2019	Spring	MARS 691 615	research	3	10
2019	Summer	MARS 491 402	Research	1	4
2019	Fall	MARS 280	Coastal and Ocean Resource	24	72
2019	Fall	MARA 681-602	Graduate Seminar	8	8
2020	Spring	MARS 603	Quantitative Methods for Resource Management	15	45
2020	Spring	STAT 303	Statistical Methods	13	39
2020	Fall	MARS 280	Coastal and Ocean Resource	28	84
2020	Fall	MARS 603	Quantitative Methods for Resource Management	8	24
2020	Fall	MARS 484	Undergraduate Internship	1	3
2021	Spring	MARS 604	Quantitative Methods for Resource Management II	10	45
2021	Spring	MARS 491 406	Research	1	2
2021	Summer	MARS 691 303	Research	2	12
2021	Fall	MARS 603	Quantitative Methods for Resource Management I	15	45
2021	Fall	MARS 280	Coastal and Ocean Resource	22	66
2021	Fall	MARS 685 601	Directed Studies	1	3
2021	Fall	MARS 691 603	Research	1	3
2022	Spring	MARS 685 601	Directed Studies	1	3
2022	Spring	MARS 691 601	Research	1	2
2022	Summer	MARS 685 600	Directed Studies	1	3
2022	Summer	MARS 693 600	Professional Study	1	3
2022	Fall	MARS 280	Coastal and Ocean Resource	25	75

			Quantitative Methods for Resource		
2022	Fall	MARS 603	Management I	20	60
2022	Fall	MARS 491	Research	2	3
2022	Fall	MARS 693 603	Professional Study	1	1

Notes: Total Student-credit hours 1,738; of which 90 hours of total research and 24 hours of directed studies

## 2.3 Student Advisement

### 2.3.1 Doctoral Students Advised as Committee Chair

**Dillon Campbell, TAMUG PhD Marine and Coastal Management and Science**

ADVISEMENT: Socioeconomic Drivers of Marine Debris

GRADUATION: Expected December 2025

**Shawn Carter, TAMUG PhD Marine and Coastal Management and Science**

ADVISEMENT: Flood Risk Management through Property Buyouts

GRADUATION: Expected May 2026

**Laura Hurt, TAMUG PhD Marine and Coastal Management and Science**

ADVISEMENT: Disasters and Poverty

GRADUATION: Expected May 2026

### 2.3.2 Master Students Advised as Committee Chair

**Cortland Gazda** (Professional paper, Expected Graduation Spring 2023)

**Emma Selby** (Professional paper, Expected Graduation Fall 2022)

**Cortland Gazda** (Professional paper, Expected Graduation Spring 2023)

### 2.3.3 Graduated Master Students Advised as Committee Chair or Co-Chair\*

**Kiley Trahan, graduated August 2021\* (Co-Chair, Chair: Ashley Ross)**

ADVISEMENT: Professional paper – “Environmental Concern: A Case Study of Galveston Bay”

POST-GRADUATE ACTIVITY: Physics Teacher, Pasadena, TX

**Heather McClain, graduated August 2021**

ADVISEMENT: Professional paper – “Comparing Existing and Candidate Buyout Locations in Harris County by Demographic Variables”

POST-GRADUATE ACTIVITY: Realty Specialist within Acquisitions at Galveston District, U.S. Army Corps of Engineer (USACE)

**Rosa Marie Garcia, graduated December 2019**

ADVISEMENT: Thesis – “Factors Affecting Water Usage From Texas’ Colorado River”

POST-GRADUATE ACTIVITY: PhD student in Water Management and Hydrological Sciences, the College of Geosciences, Texas A&M University

**Emily Fucile Sanchez, graduated August 2018**

ADVISEMENT: Thesis – “Spatial Adjustments of Socially Vulnerable Populations in Galveston County Following Hurricane Ike”

POST-GRADUATE ACTIVITY: GIS Specialist at Sustainable Planning and Design LLC working with Jim Blackburn from Rice University

**Jessica C. Casillas, graduated December 2018\* (Chair; Co-Chair: Wesley Highfield)**



ADVISEMENT: Thesis – “Effects of Seagrass Habitat and Environmental Stressors on Blue Crab Populations in Texas”

POST-GRADUATE ACTIVITY: Environmental Planner, the Houston-Galveston Area Council

**Alisha Fnu, graduated August 2017**

ADVISEMENT: Thesis – “Study of Socioeconomic Drivers of Marine Debris Pollution in North America”

POST-GRADUATE ACTIVITY: Staff Environmental Scientist, Intertek-PSI

**Ashton Burgin, graduated Spring 2016**

ADVISEMENT: Thesis – “The Value of Beach Quality Using the Hedonic Pricing Model in Galveston, TX”

POST-GRADUATE ACTIVITY: Project Manager, Norfolk District, U.S. Army Corps of Engineers (USACE)

### **2.3.4 Doctoral & Master Students Advised as Committee Member**

Mitchell Meads (TAMUG PhD in Marine and Coastal Management and Science (MCMS), Chair: Sam Brody)

Abbey Hotard (TAMUG PhD in Marine and Coastal Management and Science (MCMS), Chair: Ashley Ross)

Jenna Tyler (University of Central Florida PhD in Public Affairs, Chair: Dr. Abdul-Akeem Sadiq)

Alicia Peck (TAMUG Masters of Marine Resource Management (MARM), Chair: Samuel Brody)

Sarah Bordelon (TAMUG Masters of Marine Resource Management (MARM), Chair: Ashley Ross)

Katherine Bricken (TAMUG Masters of Marine Resource Management (MARM), Chair: Ashley Ross)

Devon Romano (TAMUG Masters of Marine Resource Management (MARM), Chair: Samuel Brody)

Andrew J. Brown (TAMUG Masters of Maritime Administration (MARA), Chair: Nikolaos Mykoniatis)

Shana Marcon (TAMUG Masters of Marine Resource Management (MARM), Chair: Wyndylyn M. von Zharen)

### **2.3.5 Graduated Doctoral & Master Students Advised as Committee Member**

Raven D. Blakeway (TAMUG PhD in Marine Biology, Chair: Glenn Jones)

Anya Stawatz (TAMUG Masters of Marine Resource Management, Chair: Ashley Ross)

Sydney Johnson (TAMUG Masters of Marine Resource Management, Chair: Ashley Ross)

Abbey Hotard (TAMUG Masters of Marine Resource Management, Chair: Ashley Ross)

Christopher Sanders (TAMUG Masters of Marine Resource Management, Chair: Wesley Highfield)

Valeria Rodriguez (TAMUG Masters of Marine Resource Management, Chair: Wesley Highfield)

Bobbie L. Morgan (TAMUG Masters of Marine Resource Management, Chair: Joan Mileski)

Kelsey McCraw (TAMUG Masters of Marine Resource Management, Chair: Ashley Ross)

Chuks A. Obineche (TAMU Master of Science in Agricultural Economics, Chair: Victoria Salin)

### **2.3.6 Undergraduate Student Research Thesis Supervision**

**Sarah Bordelon, Texas A&M University at Galveston, B.S. in Ocean and Coastal Resources and Environment**

ADVISEMENT: Undergraduate Research Scholars (URS) Thesis: “The Role of Wetlands in Mitigation Social Costs of Disasters”, 2019

POST-GRAD PLACEMENT: Graduate program at Texas A&M University at Galveston

**Cory Teague, Texas A&M University at Galveston, B.S. in Marine Biology and B.S. in Ocean and Coastal Resources and Environment**

ADVISEMENT: Undergraduate Research Scholars (URS) Thesis: “Common Bottlenose Dolphin (*Tursiops Truncatus*) Calves Utilize Trawlers in the Galveston Ship Channel”, 2017  
 POST-GRAD PLACEMENT: Data scientist/researcher, Cabell’s International

**Laura M. Hinson, Texas A&M University at Galveston, B.S. in Ocean and Coastal Resources and Environment**

ADVISEMENT: Undergraduate Research Scholars (URS) Thesis: “Water Quality and Health of Coral Reefs”, 2016  
 POST-GRAD PLACEMENT: Graduate program in Aquatic Resources - Aquatic Systems, Texas State University, San Marcos, TX

### 2.3.7 Undergraduate Student Research Mentorship

**Laura M. Hinson, Texas A&M University at Galveston, B.S. in Ocean and Coastal Resources and Environment**

MENTORSHIP: Applied Biodiversity & Science Conservation Scholars Program, Texas Sea Grant Undergraduate Scholar, 2016

**Cory Teague, Texas A&M University at Galveston, B.S. in Marine Biology and B.S. in Ocean and Coastal Resources and Environment**

MENTORSHIP: Applied Biodiversity & Science Conservation Scholars Program, Texas Sea Grant Undergraduate Scholar, Aggies Commit to Excellence, 2017

**Sarah Bordelon, Texas A&M University at Galveston, B.S. in Ocean and Coastal Resources and Environment**

MENTORSHIP: Applied Biodiversity & Science Conservation Scholars Program, Aggies Commit to Excellence, 2019

**Andrew Farquhar, Texas A&M University, B.S. in Engineering**

MENTORSHIP: Energy Institute Internship Program. Research: GOM State-, county-, municipal-level energy-planning for natural disasters. Total Award \$3,000. Summer 2019.

**Jose L. Martinez, University of Texas, B.A. Journalism, Austin, TX**

MENTORSHIP: Provided background information for an undergraduate documentary project (“Hurakan”) about intensifying hurricanes in TX, 2021

### 2.3.8 Student Mentorship International Research (NSF PIRE)

Year	Case Study	Number of Undergraduate Students	Number of Graduate Students
2018	Rhine Delta	2	2
2019	Rhine Delta	2	4
2020	Lake Ijssel	4	3
2022	Lake Ijssel*	4	4

Note: Total 16 students (8 undergraduate and 8 graduate) participated each year in the program; \*case study info for the 2022 is provided <https://www.tamug.edu/ctbs/NSF-PIRE/application.html#Case-Study-1>

### 2.3.9 Students' Research Awards and Scholarships (Under my mentorship)

Year Awarded	Student's name	Amount	Name of Award	Supporting/Award Organization
2015-2016	Laura M. Hinson	\$300	Texas A&M Undergraduate Research Scholar	TAMUG
2015-2016	Laura M. Hinson	\$5,000	Applied Biodiversity & Science Conservation Scholars Program & Award	TAMU
2015-2016	Laura M. Hinson	\$1,000	Texas Sea Grant Undergraduate Scholars Award	Texas Sea Grant
2015-2016	Laura M. Hinson	NA	Texas A&M University Undergraduate Research Scholars Ambassador Award	TAMU
2016	Laura M. Hinson	\$50	TAS Best Poster Presentation in the Marine Science Section of the collegiate academy	Texas Academy of Science
2017	Laura M. Hinson	\$300	Travel Grant MARS Department	TAMU
2016	Randall C. Teague	\$1,500	aggies commit to excellence scholars	TAMU
2016	Randall C. Teague	\$1,000	applied Biodiversity & Science Conservation Scholars Program & Award	TAMU
2016	Randall C. Teague	\$550	George Bush Travel Award	TAMU
2016	Randall C. Teague	\$300	MARB department Travel Award	TAMUG
2016	Randall C. Teague	\$300	MARS department travel award	TAMUG
2016	Randall C. Teague	\$300	Texas A&M Undergraduate Research Scholar	TAMUG
2016	Randall C. Teague	\$200	Texas Sea Grant Undergraduate Scholars Award	Texas Sea Grant
2016	Randall C. Teague	NA	13th annual student Research symposium - people's choice award	TAMUG
2016	Ashton Burgin	NA	The best poster award in MARM and overall graduate poster categories	Texas Academy of Science
2017	Emily Fucile Santchez	\$1,500	TAMUG Academic Continuing Scholarship	TAMUG
2016-2018	Emily Fucile Santchez	\$4,500	Graduate student scholarship	TAMUG
2017-2018	Emily Fucile Santchez	\$2,000	Texas Public Education Grant-Graduate	TAMU
2016-2017	Jessica Casillas	\$3,000	TAMUG DT Graduate Grant	TAMUG
2017-2018	Jessica Casillas	\$3,000	TAMUG DT Graduate Grant	TAMUG
2017-2018	Jessica Casillas	\$2,000	Texas Public Education Grant-Graduate	TAMU
2017-2018	Jessica Casillas	\$1,500	TAMUG Academic school continuing	TAMUG
2018	Sarah Bordelon	\$1,000	Aggies commit to excellence scholars	TAMUG
2018	Sarah Bordelon	\$5,000	Applied Biodiversity & Science Conservation Scholars Program & Award	TAMU
2019	Sarah Bordelon	NA	The best poster award OCRE Major, 15 <sup>th</sup> Annual Research Symposium	TAMUG
2019	Sarah Bordelon	NA	2 <sup>nd</sup> place in Overall Undergraduate Poster Category, 15 <sup>th</sup> Annual Research Symposium	TAMUG
2019	Heather McClain	\$1000	Texas Public Education Grant T	Texas Public Education Grant
2019	Heather McClain	\$873	Scholarship	Federal Pell Grant
2020-2021	Heather McClain	\$5000	Federal Work Study	Federal Government
2020	Heather McClain	\$1500	CARES Act Grant	Federal Government
2020-2021	Heather McClain	\$1000	Captain Robert Webster Scholarship	TAMUG
2020-2021	Heather McClain	\$3000	TAMUG Graduate Student Scholarship	TAMUG
2021-2023	Dillon Campbell	\$2100	Grants-In-Aid of Graduate Research Program	Texas Sea Grant

### 2.4 Prior Teaching Experience

**Teaching Assistant:** Spring, 2010; 2011

AEREC 597B – Computational Economics (graduate level course),

Department of Agricultural Economics, Sociology and Education, Pennsylvania State University

Instructor: Professor Karen Fisher-Vanden

**Lecturer:** September 2008 – May 2009

Risk Management and Mitigation Strategies for Businesses (MBA level course)

Business Modeling (MBA level course)

Iliia State University of Tbilisi, Georgia

### **3. SERVICE**

#### **3.1 Departmental Service**

Coastal Environmental Science and Society (CESS) program coordinator, 2019-current

Marine Resource Management (MARM) Graduate Admission Committee, 2013-current

Marine Resource Management (MARM) Core Faculty Committee, 2015-current

Marine Resource Management (MARM) Curriculum Committee, 2015-current

Marine Resource Management (MARM) Academic Program Review Committee, 2015

Bylaws Committee, 2014-2015

Marine and Coastal Environmental Science (MCES) Faculty Search Committee (hired Dr. Ross), 2014-2015

Academic Program Review (CESS Major), 2015-current

Information Technology Committee, 2015-current

Marine and Coastal Environmental Science (MCES) departmental sub-committee for the University Scholarship Committee, 2017, 2019, 2021

Hosted a Researcher/Lecturer (Dr. Elco Koks) from The Institute for Environmental Studies, VU University of Amsterdam, NL. Nov. 6-8, 2016

#### **3.2 University & College Service**

Judge, Student Research Symposium, TAMUG, 2014, 2017, 2020, 2021, 2022

Co-Chair (Faculty Sponsor) for Annual Student Research Symposium, TAMUG, 2015, 2016

Research Advisory Council (RAC) (voted twice by MCES faculty for 2-year term), 2016-2020

Superintendent Search Committee (hired: Capt. Michael J. Rodriguez), 2016

Weave/AIFES Assessment departmental representative for the Coastal Environmental Science and Society (CESS) major, 2016 – current

Undergraduate Academic Appeals Panel, TAMUG, 2018 – current

The Teaching Awards Committee, TAMUG, 2020 - current

#### **3.5 Professional Service**

##### **3.5.1 Journal Editorial Service**

**Special issue editor**, *Sustainability*, "Mitigation and Adaptation Strategies for Catastrophes," 2020

- Edited 12 journal manuscripts

([https://www.mdpi.com/journal/sustainability/special\\_issues/mitigation\\_adaptation\\_strategies\\_catastrophes](https://www.mdpi.com/journal/sustainability/special_issues/mitigation_adaptation_strategies_catastrophes))

**Associated Editor**, *Journal of Coastal and Riverine Flood Risk (JCRFR)*, 2022 - current

##### **3.5.2 Journal Manuscript Reviewer**

*Note: Number of original and revised articles reviewed are reported in parentheses*

*Climatic Change (3); Climate Change Economics (1); Economics of Disasters and Climate Change (2); Environmental and Resource Economics (3); Environmental Justice (2); European Journal of Health Economics (1); Frontiers in Climate (1,1); Global Environmental Change (1); International Journal of Disaster Risk Reduction (1); International Journal of Environmental Research and Public Health (1,1); International Journal of Mass Emergencies and Disasters (1); Journal of Environmental Economics and Management (6); Journal of Environmental Planning and Management (1,1); Journal of Flood Risk Management (1); Journal of Flood Risk Reduction (1,1); Journal of Homeland Security and Emergency Management (1); Journal of Housing Economics (1); Journal of Small Business Management (1); Journal of the Association of Environmental and Resource Economists (2); Land Economics (2); Natural Hazards Review (2,1); PLOS Water (1); Population Research and Policy Review (1); Public Administration Review (1,1); Regional Science and Urban Economics (1); Review of Regional Studies (1); Social Indicators Research (10,2); Social Sciences (1); Sustainability (9,2); Water (4,3)*

### **3.5.3 Grant Proposal Reviewer**

Mississippi-Alabama Sea Grant Program (1 proposal)

Georgia Sea Grant Program (2 proposals)

### **3.5.4 Book Chapter Reviewer**

Hurricane Risk in a Changing Climate, edited by Dr. James Done and Dr. Jennifer Collins, 2021

### **3.5.5 Professional Contribution: Conferences**

Discussant, Southern Economic Association, SEA 2021

Organizer, Informal roundtable APPAM “Managing the Financial Risks of Natural Disasters and Building a Resilient Future” (GAO), 2020

Discussant, Eastern Economic Association Meeting 2020

APPAM Fall Research conference paper selection reviewer 2020

Discussant, APPAM 2020

Panel Co-Organizer, The Association for Public Policy Analysis and Management 2020

Reviewer of Individual Conference Paper and Panel Submissions (reviewed 20 individual papers and 2 panel submissions), The Association for Public Policy Analysis and Management 2020

Discussant, Eastern Economic Association Meeting 2020

Discussant, Southern Regional Science Association 2019

Panel Co-Organizer, The Association for Public Policy Analysis and Management: 2019

Panel Organizer, The Association for Public Policy Analysis and Management: 2018

Panel Co-Organizer, The Association for Public Policy Analysis and Management: 2017

Panel Organizer, The Association for Public Policy Analysis and Management: 2016

Panel Chair, The Association for Public Policy Analysis and Management: 2016

Panel Organizer, The Association for Public Policy Analysis and Management: 2015

Panelist, The Association for Public Policy Analysis and Management: 2014

Reviewer, Discussant & Session Chair, The Southern Economic Association, Selected Paper: 2014; 2015

Reviewer, The World Congress of Environmental and Resource Economists (WCERE), Selected Paper: 2014.

### **3.5.6 Professional Contribution: Multidisciplinary Collaboration**

**Oversight Committee Member**, National Academy of Sciences (NAS), Enhancing Community Resilience (EnCoRe) Program Oversight Committee, 2021 – present

- The committee guides the development and implementation of a long-term, multi-year, community engagement project

- the committee helps identify relevant topics and issues, appropriate studies, and other activities, as needed, that inform and support the efforts of EnCoRe's community partners
- the committee engages in focus groups on various themes to identify the type of community, founding size, areas to fund, RFP reviews, etc.

**Faculty Fellow** at the Institute of Disaster Resilient Texas (IDRT), Texas A&M University at Galveston, 2021 – present

**Faculty Fellow** at the Center for Texas Beaches and Shores, Texas A&M University at Galveston, 2013 – present

**Fellow** of Coastal Risk Reduction and Resilience, the Institute for Sustainable Communities (IfSC), Texas A&M University, 2017 – present

**Member** of the Texas OneGulf Network of Experts (TONE), 2015 -present

- a consortium of nine Texas research institutions, comprised by 150 experts from the consortium members, designated under the auspices of the RESTORE Act – the federal legislation that directs funding resulting from the Deepwater Horizon spill settlement.

**Collaborator** of the Program of Integrated Assessment Model Development, Diagnostics and Inter Model Comparisons (PIAMDDI), 2010-2016

- funded by the U.S. Department of Energy and led by Penn State and Stanford University.
- involved collaborators from 8 U.S. Universities and 2 national laboratories to integrate and advance science in areas such as technology, uncertainty, impacts and adaptation, Regional Integrated Assessment, and the Energy, Water and Land Nexus.

### 3.6 Community Service

**Faculty Resource Member**, the Beach Maintenance Advisory Committee (BMAC) Galveston, TX, 2015–2017

- Advised, contributed, and voted to the strategic decisions related to beach maintenance and management in the city of Galveston
- Regularly attended the monthly meetings to hear progress reports, public discussion and new proposals related to beach management.

**Contributor**, Partnership initiative of the Center of Excellence for Community Resilience Planning (Funded by the National Institute of Standards and Technology; <http://resilience.colostate.edu>) to help the city of Galveston utilize the resilience decision support platform (IN-CORE in community resilience planning and decision making), 2021.

### 3.7 Professional Affiliations

American Economic Association (AEA)

Association of Environmental and Resource Economists (AERE)

Agricultural & Applied Economics Association (AAEA)

Northeast Agricultural and Resource Economics Association (NAREA)

Southern Economic Association (SEA)

Association for Public Policy Analysis and Management (APPAM)

Muskie Alumni Association of Georgia (MAAG)