

KAYODE ATOBA^{Ph.D.}

Institute for a Disaster Resilient Texas

Texas A&M University

kayodeatoba@tamu.edu

[Website](#) | [LinkedIn](#) | [Google Scholar](#)

Education

- 2018 **Ph.D. Urban and Regional Science**
Texas A&M University, College Station, TX
Dissertation: *Fill and Floods: An Assessment of the Impact of Parcel-Level Mitigation Activities on Residential Flood Damages.*
Chair: Samuel Brody. Committee: Wesley Highfield, Philip Berke, & Ming-Han Li
- 2013 **MS. Geographic Information Systems**
Sam Houston State University, Huntsville, TX
Thesis: *Public Participation Geographic Information Systems for the Marcellus Shale Play: Problems and Prospects.*
- 2008 **BS. Urban and Regional Planning**
Obafemi Awolowo University, Ile-Ife, Nigeria

Research and Teaching Interests

- Methods Geographic information sciences (GIScience), Spatial analysis, Spatial econometrics, Flood risk and exposure modeling, Python, Propensity score estimation.
- Specialty Land use Planning, Environmental Management and Policy, Flood mitigation and resiliency, Flood infrastructure, Buyouts, Property acquisition, Environmental planning, Built environment, Sustainable communities, Floodplain management

Research / Academic Experience

- 2025 - present **Research Scientist**
Texas A&M Institute for a Disaster Resilient Texas
Hazard mitigation policy research. Risk assessment and communication research. Engage with organizations and state agencies on policy-related research. Project Supervision, and Grant writing.
- 2022 - 2025 **Associate Research Scientist**
Texas A&M Institute for a Disaster Resilient Texas
Hazard mitigation policy research. Risk assessment and communication research. Engage with organizations and state agencies on policy-related research. Project Supervision, and Grant writing.
- 2020 - 2024 **Adjunct Lecturer**
Department of Public Service and Administration, Bush School of Government and Public Service, Texas A&M University.
Periodically teach environmental policy and management courses.

- 2020 - **Assistant Research Scientist**
 2022 *Department of Coastal Environmental Science*
Institute for a Disaster Resilient Texas, Texas A&M University, Galveston.
 Risk assessment for hazard mitigation planning. Risk communication and decision-making research. Design and data support of decision support tools.
- 2018 - **Postdoctoral Research Associate**
 2020 *Center for Texas Beaches and Shores, Texas A&M University, Galveston.*
 Measuring, mapping, and managing flood risk in Texas. Risk perception research.
- 2016 - **Lecturer**
 2018 *Department of Geography, South Dakota State University (SDSU)*
 Teach Geography courses conduct doctoral dissertation research.
- 2013 - **Graduate Research Assistant**
 2018 *Center for Texas Beaches and Shores, Texas A&M University at Galveston*
 Flood risk and exposure modeling using Hazus-MH. Spatially distributed modeling

Publications

Peer-Reviewed Journal Articles

- *Akinlotan, P., Davlasheridze, M., **Atoba, K.**, Highfield, W. (2026). Flood Risk Discounts: Evidence from Housing Market in Harris County, Texas. Accepted in *International Journal of Disaster Risk Reduction*.
- Grover, H., Vedlitz, A., Brody, S., **Atoba, K.**, Goldsmith, C., Dvir, R. (2025) Indirect Experiences and Public Perceptions of Hazards. Accepted in *Science of the total Environment*.
- Razzaghi Asl, R., Drakes, O., Tate, E., Brody, S., Highfield, W., **Atoba, K.** (2025). The Influence of Scale in Social Equity Modeling: Social Vulnerability and Disaster Assistance after Hurricane Harvey. *Annals of the American Association of Geographers*. <https://doi.org/10.1080/24694452.2025.2549057>
- Dvir, R. and **Atoba, K.** (2025) Building Resilience in Texas: Public Views on Critical Infrastructure Policies Amid Natural Hazards. *Risk, Hazard and Crisis in Public Policy* 16:e70008
<https://doi.org/10.1002/rhc3.70008>
- Sansom, G., Hernandez, R., Losa, L., Johnson, J., Newman, G., **Atoba, K.**, Masterson, J., Davis, D., Chiu, W. (2025) Exploring Viable Buyout Pathways for Enhanced Health in Galena Park, TX. *Sustainable Environment*, <https://doi.org/10.1080/27658511.2025.2466285>
- Han, Y., Ye, X., **Atoba, K.**, Mozumder, P. Chen, C., van den Bout, B., van Westen, C. (2024) Retreat from flood zones: simulating parcel urban land use change under community buyout policies. *Cities*. 149,2024,104953, <https://doi.org/10.1016/j.cities.2024.104953>
- Atoba, K.**, Newman, G., Sansom, G. (2023) Multi-Hazard Property Buyouts: Making a case for the acquisition of flood and contaminant-prone residential properties in Galena Park, TX *Climate Risk Management*, 41, 100529 DOI: <https://doi.org/10.1016/j.crm.2023.100529>
- *Billman, M., **Atoba, K.** Thompson, M., Brody, S. (2023) How About Now? Changes in Risk Perception Before and After Hurricane Irma. *Sustainability*, 5(9):7680. DOI: <https://doi.org/10.3390/su15097680>
- Sansom, G. Hernandez, R, Johnson, R.N., Newman, G., **Atoba, K.**, Masterson, J., Davis, D., and Fawkes, L. (2023) Evaluating the Impact of Proximity to Toxic Release Inventory Facilities and Flood Events on Chronic Health Outcomes in the City of Galena Park, Texas” *Climate Risk Management*, 40, 2023, 100507. DOI: <https://doi.org/10.1016/j.crm.2023.100507>
- Newman, G., Malecha, M, & **Atoba, K.** (2023) Integrating Topi Outputs with Arc GIS Dashboards to Identify Neighborhood Threat Levels of Contaminant Transferal During Flood Events. *Journal of Spatial*

Sciences, 68(1): 57-69. DOI: <https://doi.org/10.1080/14498596.2021.1891149>

Ross, A. & **Atoba, K.** (2022) The Dimensions of Individual Support for Coastal Hazard Mitigation: Analysis of a Survey of Upper Texas Coast Residents. *Natural Hazards Review*, DOI: [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000544](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000544)

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* 2021: 1-9 <https://doi.org/10.1017/S0376892921000059>

*Zhu, R., Newman, G, **Atoba, K.** (2021) Simulating the Impact of Land Use Change on Contaminant Transferal During Flood Events in Houston, Texas, USA. *Landscape Journal: design, planning, and management of the land*, Volume 40, Number 2, 2021, pp. 79-99

Prybutok, S., Newman, G., **Atoba, K.**, Sansom, G., Tao, Z. (2021) Combining Co\$ting Nature and Suitability Modeling to Identify High Flood Risk Areas in Need of Nature-Based Services. *Land* 2021, 10, 853. <https://doi.org/10.3390/land10080853>

Retchless, D. Mobley, W., Davlasheridze, M., **Atoba, K.**, Ross, A., Highfield, W. (2021) Mapping Cross-Scale Impacts of Storm Surge Events: Considerations for Design and User Testing *Journal of Maps*. DOI: <https://doi.org/10.1080/17445647.2021.1940325>

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; Human and Policy Dimensions*. <https://doi.org/10.1080/17477891.2020.1771251>

Mobley, W., **Atoba, K.**, & Highfield, W. (2020) Uncertainty in Flood Mitigation Practices: Assessing the Economic Benefits of Property Acquisition and Elevation in Flood Prone Communities. *Sustainability* **2020**, 12(5), 2098; <https://doi.org/10.3390/su12052098>.

Davlasheridze, M., **Atoba, K.**, Highfield, W., Brody, S., Merrell, W., Purdue, A., & Gillmer, W. (2019) Economic Impacts of Storm Surge and the Cost-Benefit Analysis of a Coastal Spine as the Surge Mitigation Strategy in the Houston-Galveston Area in the United States. *Mitigation and Adaptation Strategies for Global Change*. 24 (3) 329-354.

Atoba, K. Brody, S. Highfield, W., & Merrell, W. (2018) Estimating Residential Property Loss Reduction from a Proposed Coastal Barrier System in the Houston-Galveston Region. *Natural Hazards Review* 19(3). [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000297](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000297)

Book Chapters

Atoba, K., January-Bevers, D., Brody, S., and Juan, A. (2025). Vacant but useful: An Overview of the Riverine Targeted use of Buyout (RTUBs) Program for Post-Buyout Properties in the Greater Houston Area. In Zhu, R. & Newman, G. (Eds.) *Vacant Land Regeneration: Novel Strategies for Maximizing Local Impact*. Taylor and Francis.

Atoba, K. (2022). Evaluating a proactive framework for the acquisition of vacant and built flood prone properties in advance of flood events. In Brody, S., Lee, Y & Kothuis, B. (Eds.), *Coastal Flood Risk Reduction in the Netherlands and the U.S. Upper Texas Coast*. Elsevier <https://www.elsevier.com/books/coastal-flood-risk-reduction/brody/978-0-323-85251-7>

Davlasheridze, M. & **Atoba, K.** (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 & Kothuis, B. (Eds.), *Coastal Flood Risk Reduction in the Netherlands and the U.S. Upper Texas Coast*. Elsevier

<https://www.elsevier.com/books/coastal-flood-risk-reduction/brody/978-0-323-85251-7>

Brody, S., **Atoba, K.**, Sebastian, A., Highfield, W., Blessing, R., Mobley, W., Stearns, L. (2021). A Comprehensive Framework for Coastal Flood Risk Reduction: Charting a Course Towards Resiliency. In Kousky, C., Fleming, B., and Berger, A (Eds.) A Blueprint for Coastal Adaptation. Island Press pp 2 - 28. <https://islandpress.org/books/blueprint-coastal-adaptation>

Brody, S. & **Atoba, K.** (2018). Institutional Resilience: The Example of Flood Resiliency in the United States. In Fuchs, S. & Thaler, T. (Eds.), Vulnerability and Resilience to Natural Hazards (pp. 237-256). Cambridge: Cambridge University Press. <https://www.cambridge.org/core/books/vulnerability-and-resilience-to-natural-hazards/FCBF5405C7FEA415ECF600A6B26FBA93>

Selected Technical Reports and Conference Proceedings

Mobley, W., **Atoba, K.**, & Highfield, W. (2019) Uncertainty in Flood Mitigation Practices: Assessing the Economic Benefits of Property Buyouts and Freeboard Elevation in Flood Prone Communities. In the *Association of Collegiate Schools of Planning Conference*, October 24, 2019 Greenfield, South Carolina.

Highfield, W. Brody, S., **Atoba, K.**, & Blessing, R. (2018). Identifying the Future Costs of Flooding in the Houston-Galveston Region. Final report submitted to the Texas General Land Office. Retrieved from https://www.glo.texas.gov/coastal-grants/_documents/grant-project/17-358-final-rpt.pdf

Atoba, K. (2016) A Review of the Adaptive Capacity of New Towns to Flood Risk in the Netherlands. Case of Almere and IJburg (2016). In Kothuis, B., Lee, Y., & Brody, S. (Eds.), NSF-PIRE Coastal Flood Risk Reduction Program Volume I, Pp 114-121.

Brody, S., Blessing, R., **Atoba, K.**, Mobley, W., & Wilson, M. (2014) A flood risk assessment of the San Jacinto River waste pit. Report for the Environmental Protection Agency Submitted by Center for Texas Beaches and Shores. Texas A&M University at Galveston, TX. <https://sempub.epa.gov/work/06/9595219.pdf>

Research/Project Report Contributions

National Academies of Sciences, Engineering, and Medicine (2024). *Community-Driven Relocation: Recommendations for the U.S. Gulf Coast Region and Beyond*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/27213>. Co-author and committee member. Released 01/20/2024

Texas State Hazard Mitigation Plan (2023). Texas Division of Emergency Management. Submitted to Federal Emergency Management Agency. Effective October 4, 2023. <https://tdem.texas.gov/mitigation/hazard-mitigation-section>

Governor's Commission to Rebuild Texas. (2018). Eye of the Storm: Report of the Governor's Commission to Rebuild Texas. *Report of the Governor's Commission to Rebuild Texas*. Contributed to Chapters 2, 3, 7 & 9. <https://www.rebuildtexas.today/legislative-report-on-hurricane-harvey/>

* Denotes Student

Presentations

Invited Workshops and Expert Panels

Haase, Tom (moderator), Brody, S., Matarrita Cascante, D., Masterson, J., Van Zandt, S., **Atoba, K.** (2026) Advancing Knowledge Exchange and Practical Resilience Outcomes: How universities cultivate engaged research that drives practical outcomes for disaster resilience. At the Enabling the Next

- Generation of Disaster Resilience Expertise. February 12, 2026, Hazard Reduction and Recovery Center, Texas A&M University, College Station, TX
- Atoba, K.**, Breyer, B., Ponzio, B., Galarza, J., Brysch, C. (2025) Geography and GIS Career Paths. TAMU GIS day College Station, TX Nov 20, 2025. <https://txgisday.org/sessions/details/ecdda52b-2641-4aa2-9696-8a17e035b248>
- Atoba, K.**, Roberts, P., Rumbach, A., Salinas, G., Simmons, K. (2025). Advancing Housing Recovery After Disasters – Addressing Capacity Challenges Across Sectors. Round table session at the Center of Excellence in Capacity-building for REsilient Housing (CECREH) inaugural Summit “Transforming Housing Recovery through Research-Driven Capacity Building” Oct 16, 2025. Texas Tech University, Lubbock, TX.
- Siders, A.R., **Atoba, K.** and LeFevre, A. (2025) Planning for Safety: How Land Use Decisions Shape Flood Risk. A panel of Experts. Center for Scientific Evidence in Public Issues. Hosted by the American Association for the Advancement of Science (AAAS). Panel Anchor: Rebecca Aicher. June 18, 2025. Virtual.
- Atoba K.** (2024) Strategic Planning: Proactive vs. Reactive Approaches in Acquiring Flood-Prone Properties. Department of Ecology and Evolution Graduate Seminar, Rutgers University, April 11, 2024
- Atoba, K.** et al. (2024) People in the Plan; Social Science Data Workshop. Expert Panel discussion with the Restore the Mississippi River Delta & the Kathleen Babineaux Blanco Public Policy Center, University of Louisiana, Lafayette January 11 & 12, 2024.
- Ross, A., **Atoba, K.** Dozier, M., Stephens, K. (2024) Exploring Information Boundaries: Opportunities & Challenges of Hazards Data Access in Under-resourced Communities. Panel discussion at the *Disaster Preparedness, Response, Innovation, Mitigation and Recovery (PRIMR) Conference*. College Station, TX. Feb 27, 2024.
- Cambrice, F., Lindsey, A., Peacock, W., **Atoba, K.** (2022) Doing Engaging and Interdisciplinary Research with Collaborators. Panelist discussion at the *William Averette Anderson Workshop on Community Engagement: Challenges and Opportunity*. College Station, TX April 14, 2022
- Atoba, K.**, Vest, A., Lave, B., Zavar, E. (2022) Coping with Chronic Hazards and Crises. Planery panel at the *Disaster Preparedness, Response, Innovation, Mitigation and Recovery (PRIMR) Conference*. Denton, TX March 7, 2022.
- Atoba, K.** (2021) Incubate Galveston: A collective’s Innovation Hackathon. Expert Mentor on “Digital Solutions for regional health care: Delivery, long term care, and acute response to disaster events” Hosted by *Vision Galveston*. Galveston, TX. October 15-17, 2021
- Atoba, K. et al** (2020) Matthew Fuchs and Sandra Knight as facilitators. Transforming Buyouts of Flood Prone Property: An Expert Workshop. *The Pew Charitable Trusts*, July 7, 14, and 22, 2020 (Online due to COVID-19) Invited as an Expert on Flood Buyout.
- Atoba, K. et al** (2020) Academic Branding and presentation feedback. Pannell discussion as a Professional at the *William Averette Anderson Fund Spring Workshop*, Texas A&M University, March 27, 2020.
- Atoba, K.**, Verdone, L., Shepherd C., Brody, S., Highfield, W. (2019) Strategic Property Buyouts to Enhance Flood Resilience. Creating a Model for Flood Risk Reduction, Community Protection and Environmental Gains. Keynote Speaker, *Texas Land Conservation Conference*, Austin TX, USA. Feb 28, 2019).
- Atoba, K.**, Mobley, W., & Torres, J. (2015) Assessing multiple Coastal Hazard Mitigation Strategies in Galveston TX. Panel discussion at the *Galveston Historical Foundation Coastal Resilience Conference*, Galveston, TX, November 2015
- Atoba, K.**, Brody, S., Highfield, W., & Davlasheridze, M. (2016) Predicting Economic Losses Using Storm Surge Models. *Avoiding Disasters Conference-How to Reduce Impacts from the Next Big Storm*. Rice

University, Houston, TX. April 26, 2016.

Conference and Workshop Presentations

Adair, D., and **Atoba, K.** (2025) Understanding the Texas State Hazard Mitigation Plan. Presentation at the *Texas Emergency Management Conference*. Fort Worth, TX. May 31, 2025.

Razzaghi Asl, R., Drakes, O., Tate, E., Brody, S., Highfield, W., **Atoba, K.** (2024). Assessing Flood Recovery Assistance and Social Vulnerability: A Multi-Scale Analysis in Post-Hurricane Harvey. Paper Presentation at the *American Geophysical Union Conference*. Dec 11, 2024, Washington D.C.

Atoba, K. (2024) Texas State Hazards Mitigation Plan: Hazard Identification and Risk Assessment. Presentation during a panel on Data to Decisions: New tools from the Institute for a Disaster Resilient Texas. Panelist: Highfield, W., Atoba, K., Stearns, L., Stephen's, K., and Teleki, K. the *Texas Emergency Management Conference*. Fort Worth, TX. May 28, 2024

Lehnick, A., Davies J., **Atoba, K.**, Adair, J. Moore, N (2024) Understanding the Texas Hazard Mitigation Plan: Threats and Risk to Texas. Panelist at the *Texas Emergency Management Conference*. Fort Worth, TX. May 29, 2024

*Akinlotan, P., Davlasheridze, M., Highfield, W., **Atoba, K.** (2024) Flooded with Losses: A Spatial Approach to Flood Risk and Property Valuation in Harris County, TX. Poster Presentation at the *Disaster Preparedness, Response, Innovation, Mitigation and Recovery (PRIMR) Conference*. College Station, TX. Feb 27, 2024.

Davlasheridze, M. Mio, Q., **Atoba, K.** (2022). The Effects of floodplain buyouts on local housing market: evidence from Harris County, Texas. Paper Presentation at the *Association for Public Policy Analysis & Management Conference*, Washington, DC, Nov 17-19, 2022.

*Brown Jr., T., Zou, L., Thompson, **C. Atoba, K. &** Abedin, J. (2022) Marginalized Natural Hazard Risk Perception in Sarasota County, Florida. Paper Presentation at the *Natural Hazards Workshop*, Broomfield, CO, July 14, 2022.

Atoba, K., Brody, S., Highfield, W., Verdone L., & Shepherd, C. (2019). Strategic Property Buyouts to Enhance Flood Resilience: A Multi-Criteria Spatial Approach for Incorporating Ecological Values into the Selection Process. Poster presented at the *Association of Collegiate Schools of Planning Conference*, Greenville, SC, October 24, 2019.

Mobley, W., **Atoba, K.**, & Highfield, W. (2019). Uncertainty in Flood Mitigation Practices: Assessing the Economic Benefits of Property Buyouts and Freeboard Elevation in Flood Prone Communities. Paper presentation at the *Association of Collegiate Schools of Planning Conference*, Greenville, SC. October 24, 2019

Brody, S., Highfield, W. Sebastian, A, Blessing R., Mobley, W., **Atoba, K.**, Sterns, L. (2019). Measuring, Mapping, & Managing Flood Risk: A Pilot Program in Southeast Texas. Paper presentation at the *Resilience Rising: Research and Practice on Harvey and Hazards of the Future*, College Station, TX, September 5, 2019.

Atoba, K. (2017). Fill and Floods: Assessing the Impact of Parcel-level Mitigation Activities on Residential Flood Damages. Paper presentation at the *Great Plains / Rocky Mountains Division of the Association of American Geographers Annual Meeting*, Grand Forks, ND, October 13, 2017.

Atoba, K. (2017). New Towns Coping with Flood Risk in the Netherlands: A Tale of Two Dutch Cities. Pecha Kucha paper presentation at the *Natural Hazards Workshop*, Broomfield, CO, July 2017.

Atoba, K. (2017). Propensity Score Estimation of Parcel Fill and Its Impact on Residential Flood Damages. Paper presentation at the *Association of American Geographers Annual Meeting*, Boston, MA, April 2017.

Atoba, K. (2016) Local Impact of Parcel Fill on Residential Flood Loss: Case of the Clear creek watershed. Poster presentation at the 17th Annual Texas A&M University ecological integration symposium, College Station, TX. April 2016.

Atoba, K. Davlasheridze, M., & Brody S. (2016). Predicting economic losses in the Galveston Bay area using storm models. Paper presentation at the *Avoiding Disasters Conference, SSPEED Center*, Rice University, Houston TX. April 2016

Atoba, K. & Mobley, W. (2016) Flood damage estimates and the Galveston Bay coastal atlas. Paper presentation at the *Galveston Historical Foundation's Coastal Resilience Conference*. Galveston, TX. October 2015.

* *Denotes Student*

Media Coverage/Media mention

"DRIP Program Overview". Institute for a Disaster Resilient Texas. *Youtube*. Link: <https://www.youtube.com/watch?v=CAxOArWjMvg&t=149s>. 2024.

"Below the waterlines: Pace of Harris County home buyouts slower than hoped for after Hurricane Harvey" *Houston Public Media*. Link: <https://www.propublica.org/article/boomtown-flood-town-text> Aug 23, 2022.

"Hell and high water: Boomtown, Flood Town" by Al Shaw, Neena Satija, The Texas Tribune and Reveal, and Kiah Collier, *Propublica. The Texas Tribune* Dec. 7, 2016.

Teaching Experience

Instructor of Record

PSAA 606: Environmental Policy and Management TAMU

GEOG 200: Introduction to Human Geography, SDSU

GEOG 150: Environmental Disasters/Human Hazards, SDSU

GEOG 101: Introduction to Geography, SDSU

GEOG 101 (Online): Introduction to Geography, SDSU

GEOG 131: Physical Geography; Weather & Climate, SDSU

Assistant Instructor

PLAN 641: Environmental Planning & Administration , TAMU

PLAN 642: Coastal Resilience and Sustainability, TAMU

Guest Instructor/Lectures

Data Analytics for Hazard Mitigation Planning (Fall, 2023, University of North Texas)

Coastal Resilience and Sustainability (Spring, 2021, 2022, TAMU)

Buyouts: A proactive Approach to Flood Hazard Mitigation (Spring 2022, TAMU Galveston)

Urban Flooding; Vulnerability, Mitigation and Resilience. (Fall, 2016, TAMU)

Geospatial Applications to Flooding Problems (Fall, 2018, TAMU)

GIS Application to Emergency Management. (Fall, 2018, University of Nebraska Omaha)

Grants, Awards & Contracts

Funded Grants and Awards as PI/CoPI

- 2025-2027 **\$531,122.** *Texas Division of Emergency Management.* Principal Investigator: **Atoba, K.** State Hazard Mitigation Plan Data and Mapping for Local Communities. M. Award No: 2503642
- 2022-2024 **\$207,018.** *Federal Emergency Management Agency.* Principal Investigator: Highfield, W., CoPI: **Atoba, K.** Advancing Resilient Infrastructure Strategies with Nature-based Solutions. Sponsor North Carolina State University. Primary Sponsor: DHS-Federal Emergency Management Agency.
- 2022-2027 **\$605,643.** *National Science Foundation.* Principal Investigator: **Atoba, K.** Large-scale CoPe: Coastal Hazards, Equity, Economic prosperity, and Resilience (CHEER)". Total Hub award **\$16,240,129** Hub Sponsor: University of Delaware. PI: Davidson, Rachel, Co-PIs: Nozick, L., Colle, B., DeYoung, S., Millea, M. Award No: 2209190
- 2022-2024 **\$149,974.** *Texas One Gulf* Principal Investigator: Davlasheridze, M; Co PIs: Sebastian, A, Miao, Qing, **Atoba, K.**, Mobley, W. Flood Risk and Vulnerability: Evaluating the Fiscal and Social Implications of Property Buyouts in Flood-prone Communities
- 2021-2024 **\$1,950,017.** *Texas Division of Emergency Management (TDEM).* **Principal Investigator: Atoba, K.** Co-PIs: Brody, S., Highfield, W., Blessing, R., Mobley, W., Retchless, D., Ross, A. Texas Natural Hazard Risk Assessment (Enhanced State Hazard Mitigation Plan - Task 2. Statewide Hazard Data Collection and Analysis). Grant No. 21-125-000-C775
- 2022-2024 **\$1,150,000.** *Texas Governor's Office.* Interagency Cooperation Contract. PI: Samuel Brody, Co-PIs: **Atoba, K.**, Blessing, R., Highfield, W., Section 39: Institute for a Disaster Resilient Texas (EC6.1 Revenue Replacement - Provision of Government Services). Project Title: Digital Flood Risk Infrastructure Program (DRIP) for Under-resourced Texas Communities
- 2017 Travel Award to the Netherlands (Internal) *Nation Science Foundation (NSF)* Partnership in International Research (PIRE). Through Center for Texas Beaches and Shores, Texas A&M University at Galveston TAMUG.
- 2016-2018 **\$30,000.** *South Dakota State University.* Doctoral Dissertation Fellowship. Department of Geography, South Dakota State University, Brookings, SD
- 2016 **\$300** *Texas A&M University.* Graduate Research Award. First place in Geography/Earth science research. Office of Graduate and Professional Studies, Texas A&M University, 2016 Student research week.

Other Funded Grants as Senior Personnel

- 2024-2027 Texas General Land Office. *Senior Personnel.* PI: Russell Blessing Texas Disaster Information System (TDIS) Work Order No. D082
- 2021-2024 **\$8,500,000.** *Texas General Land Office.* PI: Brody, S. et al *Senior Personnel: Atoba, K.* Texas Disaster Information System (TDIS) (2021-2024).
- 2019-2022 **\$2,000,000** *Texas General Land Office.* PI: Brody, S. Other Research Personnel: **Atoba., K.** Measuring, Mapping, and Managing Flood Risk in Texas. Contract No. 19-181-000-B574.
- 2018 **\$1,594,189** *Texas General Land Office.* PI: Highfield, W. *Contributing Researcher: Atoba., K.* Evaluating the Effects of a Coastal Spine: National-Level Economic Ripples and Effects on Flood Insurance.
- 2020-2024 **\$799,928** *U.S Environmental Protection Agency.* Co-PI: Newman, G. *Contributing Researcher: Atoba., K.* Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston.

Service Activities

University, Professional, and Community Service

- 2026 – **Research Fellow, Institute for Science, Technology and Public Policy (ISTPP)**, The Bush School of Government and Public Service, Texas A&M University. Contribute expertise and collaborations with the Institute on interdisciplinary projects and scholarship in areas of flood hazard mitigation, geospatial analysis of the built environment, resilience of communities to environmental hazards, and knowledge and experience in research and public policy.
- 2026 – **Member, Board of Directors, Houston Wilderness.** The Houston Wilderness is a nonprofit organization focused on maintaining the natural ecological system in the Houston Metro area. They have several programs, one of which is the Riverine Targeted use of Buyouts which focuses on reestablishing riparian areas on post buyout land in flood prone areas of Houston.
- 2024 – **Member, Advisory Board, Houston Wilderness.** The Houston Wilderness is a nonprofit organization focused on maintaining the natural ecological system in the Houston Metro area. They have several programs, one of which is the Riverine Targeted use of Buyouts which focuses on reestablishing riparian areas on post buyout land in flood prone areas of Houston.
- 2024 – **Member, Internal Seed Grant Proposal Review, Institute for a Disaster Resilient Texas (IDRT)** Present The Committee consists of faculty, research and administrative staff who review funding proposals from the TAMU Chancellor's office. These proposals have the potential of increasing external grants for the institute.
- 2022- **Member, Hazard Mitigation Advisory Supporting Committee, Texas Emergency Management** 2024 *Advisory Committee (TEMAC), Texas Division of Emergency Management (TDEM)* TEMAC is comprised of over 200 emergency management professionals from across the state of Texas providing recommendations on issues relating to strategy and policy on hazard mitigation strategies
- 2023 – **Technical Advisory Team (TAT) Member, Texas Integrated Flooding Framework.** The Texas present Integrated Flooding Framework (TIFF) project was established in 2020 to create an integrated framework to equip local, regional, and state entities with vital compound flood risk information and essential planning tools to support comprehensive regional flood planning and mitigation in the coastal zone.
- 2022- **Advisor, Fellowship Intake Committee, The William Averette Anderson Fund.** present Mentor doctoral students in natural hazards and emergency research across different institutions in the United States.
- 2022- **Member, Special ad hoc Consensus Committee, National Academies of Sciences, Engineering,** 2023 *and Medicine (NASEM).* Ad hoc consensus committee, Managed Retreat in the U.S. Gulf Coast Region Board on Environmental Change and Society
- 2018 - **Mentor, The William Averette Anderson Fund.** present Mentor doctoral students in natural hazards and emergency research across different institutions in the United States.
- 2016 - **Chair of Community Service, The William Averette Anderson Fund.** 2017 Promoting hazard and disaster mitigation education and research for underrepresented groups.
- 2008 - **Outreach Coordinator, Ibadan Drug-Free Club.** 2009 Organizing public outreach programs for individuals affected by drugs and addictive substances.

Postdoctoral Advisor/Mentorship

2024- present Hongrak Pak, Postdoctoral Researcher. Knowledge Transfer Machine Learning Applications for Flood Risk Assessment

Graduate Committees

2025- Present Committee Member, Nelson Adeniji (PHD). Understanding Residential Recovery after Hurricanes: A Mixed-Methods Analysis of Community Challenges, Recovery Timelines, and Mitigation Decisions. Eastern Carolina University.

2023- Present Committee Member, Peter Akinlotan (PHD). Marine and Coastal Environmental Science. Title: Beyond the Storm: A Spatial Analysis of Hurricane-Induced Damage and Adaptive Resilience in Coastal Texas.

2020- 2023 Committee Member, Cristina Guzman (MS). Agricultural Leadership, Education, and Communications. Title: The Road to Resilience: An Analysis of Decision-Making Processes in Hazard Mitigation Plan Adoption.

2020- 2023* Committee Member, Jamil Tarik Brown Jr. (MS). Geography. Assessing the Spatial Dimensions of Individual's Appraisal of Self Efficacy and Disaster Preparedness after Hurricane Irma.

2022- 2027 Committee Member, Peter Akinlotan (PHD). Marine & Coastal Environmental Science Department. Flood Risk Discounts: Evidence from Housing Market in Harris County, Texas

**Graduated*

Scientific Journal Peer Reviews

2021 - Present Natural Hazards and Earth Systems sciences

2020 - Present Journal of Environmental Studies and Science

2020 - Present Global Environmental Change

2019 - Present Journal of Environmental Studies and Science

2018 - Present Natural Hazards Review

2023 - Present Climate Risk Management

2023 - Present Journal of Environmental Management

2023 - Present Nature Communications

2024 - Present Journal of Urban Health

2025 – Present Communications Sustainability

Professional Memberships

American Planning Association

The Association of Collegiate Schools of Planning

American Association of Geographers

Natural Hazard Mitigation Association

Professional Experience

2016 - **Research Consultant, Margaret A. Cargill Philanthropic Services**

2018 Data collection and analysis on issues relating to inter-organizational collaboration among grantee members in relation to disaster mitigation, response, and recovery

2011 - **GIS / Lidar Technician, Geodigital International Corporation, The Woodlands, TX**

- 2012 Manage LIDAR data for Infrastructure construction and maintenance, corridor mapping, and feature classification of LIDAR data
- 2011 - **Utility Locate Technician**, *United States Infrastructure Corporation, Houston, TX*
2012 Reading utility prints and locating underground facilities.
- 2008 - **Town Planning Assistant**, *Oyo State Urban and Regional Planning Board, Nigeria*
2009 Planning urban renewal, design of layouts, site inspection, evaluating environmental impact analysis report and development control.
- 2006 - **Town Planning Intern**, *Physical Planning and Development Unit, Obafemi Awolowo University, Nigeria*.
2007 Digitizing paper maps and Land use plans using AUTOCAD. Auditing development approval grants.

Trainings and Certifications

- 2024 **Amplify Your Leadership**
Fountainworks Public Leadership Network (PLN)
- 2021 **Social and Behavioral Research Investigators and Key Personnel** Collaborative Institutional Training Initiative (CITI)
- 2021 **Responsible Conduct of Research for Engineers**
Collaborative Institutional Training Initiative (CITI)
- 2016 **Professional Development Certificate**
Office of Graduate and Professional Studies, Texas A&M University
- 2014 **Graduate Teaching Certificate**
Center for Teaching Excellence, Texas A&M University