

# KAYODE ATOBA<sup>1</sup>

Department of Landscape Architecture and Urban Planning  
Texas A&M University  
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## Curriculum Vitae

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### Education

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- 2017      **Ph.D. (expected) Urban and Regional Science**  
Emphasis: Hazard Mitigation  
Texas A&M University, College Station, TX  
Dissertation: *Impact of Parcel fill on Residential Flood Damages*  
Chair: Dr. Samuel Brody.  
Committee: Dr. Wesley Highfield, Dr. Philip Berke, Dr. Ming-Han Li
- 2013      **MS. Geographic Information Systems (GIS)**  
Sam Houston State University, Huntsville, TX  
Thesis: *Public Participation Geographic Information Systems for the Marcellus Shale Play: Problems and Prospects*  
Chair: Dr. Mark Leipnik.  
Committee: Dr. Gang Gong, Dr. Falguni Mukherjee
- 2008      **BS. Urban and Regional Planning**  
Obafemi Awolowo University, Nigeria  
Project: *An Assessment of the Human and Environmental Health Implications of the Makoko Slum in Lagos, Nigeria*  
Advisor: Dr. Elizabeth Benson

### Research and Teaching Interests

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- Methods      Spatial Econometrics, GIS, Spatial Analysis, Flood Damage Modelling, Propensity Score Matching.
- Specialty      Environmental Hazards (coastal and inland flooding), Hazard Resiliency, Landscape Alteration, Sustainable Communities, Floodplain Development and Planning, Human Geography.

### Publications

#### Referred Book Chapters

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- 2017      Brody, S. & **Atoba, K.** (2017 in print). Flood Resiliency in the United States: Setting a framework for reducing losses. In S. Fuchs & T. Thaler (Eds.), *Vulnerability and Resilience to Environmental Hazards*. Cambridge: Cambridge University Press.

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<sup>1</sup> Kayode is a U.S. citizen and eligible for employment in the United States.

### Referred Articles (In Preparation)

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- Submitted      **Atoba, K.** Brody, S. Highfield, W., and Merrell, W. (2017 submitted). Estimating Residential Property Loss Reduction from a Proposed Coastal Barrier System in the Houston-Galveston Region. *Submitted to Natural Hazards Review*.
- In prep          Davlasheridze, M., **Atoba, K.**, Highfield, W., Brody, S, Merrell, W., Purdue, A., & Gillmer, W. “The indirect economic impacts of hurricane-induced storm surge on the Galveston Tri-county area”. Forthcoming submission to *Environmental Science and Technology*.

### Non-Referred Articles

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- 2017              **Atoba, K.** Brody, S. Highfield, W., and Merrell, W. Estimating Direct Economic Impact of storm surge on Residential Structures. A Technical Report. Center for Texas Beaches and Shores, Galveston, TX. Submitted to the Texas General Land Office.
- 2016              Davlasheridze, M., **Atoba, K.**, Highfield, W., Brody, S, Merrell, W., Purdue, A., & Gilmer, W. “Economic Feasibility of Coastal Spine System”. Center for Texas Beaches and Shores, Galveston, TX.
- 2016              **Atoba, K.** Brody, S., & Highfield, W. “Direct Economic loss to residential structures from proxy and historic storm surge events”. *Technical report of the Center for Texas Beaches and Shores*.
- 2015              Davlasheridze, M., **Atoba, K.**, Highfield, W., & Brody, S. “Report on the economic impacts of coastal protection from surge induced flood damage”. [http://www.tamug.edu/ikedike/images\\_and\\_documents/Economic\\_Impact\\_Report.pdf](http://www.tamug.edu/ikedike/images_and_documents/Economic_Impact_Report.pdf)
- 2014              **Atoba, K.** & Brody, S. “Economic impact of hurricane scenarios for the Galveston bay: A comparison of losses with and without the coastal barrier”. *Memos of ongoing research on flood risk reduction in Galveston bay area. Texas A&M University, Galveston, TX*.
- 2013              Blessing, R., Wilson, M., Mobley, W., **Atoba, K.**, & Brody, S. (2013). A flood risk assessment of the San Jacinto river waste pit. *Center for Texas Beaches and Shores. Texas A&M University at Galveston, TX*.

### Presentations

#### Conference/Workshop Presentations

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- 2017              **Atoba, K.**, “Propensity Score Estimation of Parcel fill and Its Impact on Residential Flood Damages”. (Oral Presentation). *Association of American Geographers (AAG) Annual Meeting*, Boston, MA, U.S.A. April, 2017
- 2016              **Atoba, K.** “Direct Impacts of Subdivision fill on Residential Flooding in the Clear Creek Watershed. (Poster presentation). *The Bill Anderson Fund Workshop*, University of Delaware, Newark, DE. November, 2016

- 2016 **Atoba, K.** “Effects of Compensatory Storage and fill on residential flood Damage: Case of the Clearcreek watershed”. (Oral Presentation). *Texas A&M Student Research Week*. College Station, TX. April, 2016.
- 2016 **Atoba, K.** “Local impact of parcel fill on residential flood loss: Case of the Clearcreek watershed” (Poster presentation). *17<sup>th</sup> annual Texas A&M University ecological integration symposium*. College Station, TX. April, 2016.
- 2016 **Atoba, K.** Davlasheridze, M., & Brody S. “Predicting economic losses in the Galveston Bay area using storm models”. (Oral Presentation). *Avoiding Disasters Conference, SSPEED Center*. Rice University, Houston TX. (April, 2016).
- 2015 **Atoba, K.** & Mobley, W. “Flood damage estimates and the Galveston Bay coastal atlas” (Oral Presentation). *Galveston Historical Foundation’s Coastal Resilience Conference*. Galveston, TX. October, 2015.
- 2015 **Atoba, K.**, Brody, S., & Mobley, W. “Flood damage modelling using HAZUS: Preliminary results and future directions” (Oral Presentation) *Technical workshop on Houston/Galveston surge suppression*. Galveston, TX. September, 2015.
- 2014 **Atoba, K.** & Brody, S. “Preliminary economic impact of storm surge in the Galveston Bay”. *Framework for flood risk reduction in the Galveston Bay area*. Galveston, TX. December, 2014.

### Invited Panel Discussions

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- 2015 **Atoba, K.**, Mobley, W., Torres, J. “Coastal hazard mitigation strategies”. Panel discussion at Galveston Historical Foundation’s *Coastal Resilience Conference*, Galveston, TX. Panelists from Texas A&M at Galveston, Rice University, and US Army Corps of Engineers. November, 2015
- 2014 Brody, S. **Atoba, K.** Highfield, W. Davlasheridze, M. “Framework for flood risk reduction in the Galveston Bay area”. Panel discussion at *Texas A&M University*, Galveston, TX. December, 2014

### Awards and Honors

#### Paper Awards

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- 2016 **\$300** Graduate Research Award  
First place in Geography/Earth science research  
Office of Graduate and Professional Studies, Texas A&M University, 2016  
Student research week

#### Research Awards/Funding

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- 2016 **\$30,000** Doctoral Dissertation Fellowship  
South Dakota State University, Brookings, SD
- 2013 Graduate Research Assistantship  
Institute for Sustainable Coastal Communities, Center for Texas Beaches and Shore  
Texas A&M University
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## Travel Awards

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May, 2017      Travel Award to Netherlands  
NSF Partnership in International Research (PIRE) via Texas A&M University at Galveston

## Experience

### Research Experience

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05/2016      **Instructor**  
Present      *Department of Geography, South Dakota State University, Brookings, SD*  
Teach Geography courses and mentor undergraduates in the Geography department.

08/2016      **Dissertation Research Fellow**  
Present      *Department of Geography, South Dakota State University, Brookings, SD*  
Conduct doctoral dissertation research and teach and mentor undergraduates in the Geography department.

05/2016      **Research/Academic Consultant**  
Present      *Margaret A. Cargill Philanthropic Services*  
Data collection and analysis on issues relating to inter organizational collaboration among grantee members in relation to disaster mitigation, response and recovery.

08/2013      **Graduate Research Assistant**  
Present      *Center for Texas Beaches and Shores, Texas A&M University at Galveston*  
Modelling economic loss from storm surge events in the Galveston bay area for the flood risk reduction projects. Data analysis and integration of datasets across variety of software like ArcGIS, ADCIRC, Hazus-MH, IMPLAN, etc.

### Teaching Experience

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Summer '17      **Instructor of Record. GEOG 101 (Online):** Introduction to Geography  
SDSU      Lectures, student led discussions, critical thinking on Geographical concepts, Application of physical and human geography topics to space and place creation.

1. Fall '16      **Instructor of Record. GEOG 200:** Introduction to Human Geography  
2. Spring '17      Lectures, student led discussions, real-life group projects on topics that cover  
SDSU      world population, agriculture, politics, economy, religion, language, and ethnicity, and how these interact to create space and place.

Spring '16      **Teaching Assistant. PLAN 642:** Coastal Resiliency and Sustainability  
TAMU      Coordinating class participation, leading class discussions, stand-by alternate instructor, grading and leading field trips.

Fall '15      **Teaching Assistant. PLAN 641:** Environmental Planning  
TAMU      Promoting class discussions by raising critical environmental issues in relation to concepts discussed in class.

Fall 15      **Guest Lecturer. URPN 210:** Urban Issues  
TAMU      Topic: Resilience, hazard mitigation and urban planning.

## Applied Experience

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- 11/2011      **GIS / Lidar Technician**  
 05/2012      *Geodigital International Corporation, The Woodlands, TX*  
 Manage LIDAR data for Infrastructure construction and maintenance like  
 Electrical lines, corridor mapping, and feature classification of LIDAR data.  
 Products are used for danger tree analysis, buffer creation etc.
- 04/2011      **Utility Locate Technician**  
 08/2011      *United States Infrastructure Corporation, Houston, TX*  
 Reading utility prints and locating underground facilities.
- 01/2008      **Town Planning Assistant**  
 10/2009      *Oyo State Urban and Regional Planning Board, Nigeria*  
 Project: Oyo state plan for destitute and displace populations.  
 Planning urban renewal. Design of layouts, site inspection, environmental inventory,  
 infrastructure location, evaluating environmental impact analysis report and  
 development control.
- 03/2006      **Town Planning Intern**  
 07/2006      *Obafemi Awolowo University. Physical Planning and Development Unit, Nigeria*  
 Digitizing paper maps and Land Use plans using AUTOCAD. Zoning monitoring  
 and enforcement, auditing development approval grants and applications.

## Certifications

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- 2016      **Professional Development Certificate**  
 Office of Graduate and Professional Studies,  
 Texas A&M University
- 2014      **Graduate Teaching Certificate**  
 Academy for Future Faculty  
 Center for Teaching Excellence,  
 Texas A&M University

## Service Activities

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- 3/2017      **Committee Leader for Writing Accountability**  
 Present      The William Averette Anderson Fund for Hazard and Disaster Mitigation Education  
 and Research for Underrepresented Groups.
- 02/2016      **Fellow**  
 Present      The William Averette Anderson Fund for Hazard and Disaster Mitigation Education  
 and Research for Underrepresented Groups.
- 04/2016      **Chair of Community Service**  
 11/2016      The William Averette Anderson Fund for Hazard and Disaster Mitigation Education  
 and Research for Underrepresented Groups.

07/2008      **Ibadan Drug Free Club (Project Coordinator)**  
07/2009      Organizing public education projects on the dangers of addictive substances

**Professional Memberships**

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2015- Present   American Planning Association  
2016- Present   The Association of Collegiate Schools of Planning  
2016- Present   South Dakota Planners Association  
2016- Present   American Association of Geographers  
2017- Present   Natural Hazard Mitigation Association  
2013- Present   Urban and Regional Science Student Organization (TAMU)