

Himanshu Grover (PhD, AICP, AITP)

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Chairperson and Associate Professor, Department of Community and Regional Planning

College of Agricultural, Life and Natural Sciences, *Alabama A&M University*Remote Visiting Scholar, *Texas A&M University*Member, Editorial Board - *Environmental Hazards***I. Education**

- 2010 Doctor of Philosophy (PhD) in Urban and Regional Sciences
 Department of Landscape Architecture and Urban Planning,
 College of Architecture, Texas A&M University
 Dissertation: "Planning for Climate Change - Role of Comprehensive Plans"
- 2006 Master of Urban Planning (MUP)
 Certificate in Environmental Hazard Management
 Certificate in Sustainable Urbanism
 Department of Landscape Architecture and Urban Planning,
 College of Architecture, Texas A&M University
 Thesis: "Mitigating Climate Change Risk to Metropolitan Areas in the United States"
- 1998 Bachelor of Physical Planning (BPP)
 School of Planning and Architecture, New Delhi, India
 Thesis: "A Model for Water Resource Based Sustainable Development"

II. Employment**A. Academic Positions**Alabama A&M University

01/2025 Chairperson and Associate Professor Department of Community and Regional Planning

01/2025 Masters in Urban and Regional Planning, Program Coordinator

University of Washington

12/2014-12/2024 Assistant Professor Department of Urban Design and Planning

01/2015-present Co-Director Institute for Hazard Mitigation Planning and Research

01/2018-present Faculty Affiliate Center for Studies in Demography and Ecology

University at Buffalo (SUNY)

2010-2014 Assistant Professor Department of Urban and Regional Planning

III. Scholarship / Research**A. Publications**Articles

Thalakkottukara N T, Thomas J, Watkins M K, Holland B C, Oommenn T, Grover H. (2024). "Suitability of the height above nearest drainage (HAND) model for flood inundation mapping in data-scarce regions: a comparative analysis with hydrodynamic models", *Earth Science Informatics*, 1-15.

- Grover H. (2023). "Public Risk Perception of COVID-19 Transmission and Support for Compact Development," *Humanities and Social Sciences Communications*, 10: 894.
- Grover, H., Lindell, M. K., Brody, S. D., & Highfield, W. E. (2022). "Correlates of flood hazard adjustment adoption in four coastal communities." *International Journal of Disaster Risk Reduction* 68, 102728.
- Grover, H., Brody, S.D., and Vedlitz, A. (2017). "Understanding Climate Change Risk Perception in the USA." *International Journal of Global Warming* 13(2): 113-137.
- Méthot, J., Huang, X., and Grover, H. (2015). "Demographics & societal values as drivers of change in the Great Lakes–St. Lawrence River Basin." *Journal of Great Lakes Research* 41:30-44.
- Brody, S., Grover, H., and Vedlitz, A. (2012). "Examining the Willingness of Americans to Alter Behavior to Mitigate Climate Change." *Climate Policy* 12(1):1-22.
- Van Zandt, Shannon, Peacock, W.G., Henry, D.W., Grover, H., Highfield, W., and Brody, S.D. (2012). "Mapping social vulnerability to enhance housing and neighborhood resilience." *Housing Policy Debate* 22 (1):29-55.
- Brody, S., Grover, H., Lindquist, E., and Vedlitz, A. (2010). "Examining Climate Change Mitigation and Adaptation Behaviors among State and Local Public Sector Organizations in the United States." *Local Environment* 15(6), 591-603.
- Arlikatti, S., Peacock, W.G., Prater, C.S., Grover, H., and Gnana Sekar, Arul. (2010). "Assessing the Impact of the Indian Ocean Tsunami on Households: The Modified Domestic Assets Approach." *Disasters*, 34(3): 705-731.
- Brody, S. D., Zahran, S., Grover, H., and Vedlitz, A. (2008). "A Spatial Analysis of Local Climate Change Policy in the U.S.: Risk, Stress, and Opportunity." *Landscape and Urban Planning* 87(1):33-41.
- Brody, S.D., Zahran, S., Vedlitz, A., and Grover, H. (2008). "Examining the Relationship between Physical Vulnerability and Perceptions of Global Climate Change in the U.S." *Environment and Behavior* 40(1): 72-95.
- Zahran, S., Brody, S.D., Vedlitz, A., Grover, H., and Miller, C. (2008). "Vulnerability and Capacity: Explaining Local Commitment to Climate Change Policy." *Environment and Planning C: Government and Policy* 26: 544-562.
- Zahran, S., Brody, S.D., Peacock, W.G., Grover, H., and Vedlitz, A. (2008). "Social Vulnerability and Flood Casualties in Texas, 1997-2001." *Disasters* 32(4):537-560.
- Zahran, S., Grover, H., Brody S.D., and Vedlitz, A. (2008). "Risk, Stress, and Capacity: Explaining Metropolitan Commitment to Climate Protection." *Urban Affairs Review* 43:447-474.
- Brody, S.D., Zahran, S., Maghelal, P., Grover, H., and Highfield, W. (2007). "The Rising Costs of Floods: Examining the Impact of Planning and Development Decisions on Property Damage in Florida." *Journal of the American Planning Association* 73(3): 330-345.
- Brody, S.D., Zahran, S., Highfield, W. E., Grover, H., and Vedlitz, A. (2007). "Identifying the Impact of the Built Environment on Flood Damage in Texas." *Disasters* 32(1):1-18.
- Prater, C., Peacock, W.G., Arlikatti, S., and Grover, H. (2006). "Social Capacity in Nagapattinam, Tamil Nadu after the December 2004 Great Sumatra Earthquake and Tsunami." *Earthquake Spectra* 22: S715-S729.
- Brody, S.D., Grover, H., Bernhardt, S., Tang, Z., Whitaker, B., and Spencer, C. (2006). "Identifying Potential Conflict Associated with Oil and Gas Exploration in Texas State Coastal Waters: A Multi-criteria Spatial Analysis." *Journal of Environmental Management* 38:597-617.

Books

- Oommen, T., Veerappan, R. Balamurugan, G. and Grover, H. (2020). *Disaster Management Curriculum in India*. Rathore Academic Research Publication: New Delhi, India.

Masterson, J. H., Peacock, W. G., Van Zandt, S. S., Grover, H., Schwarz, L. F., and Cooper, J. T. Jr. (2014). *Planning for Community Resilience: A Handbook for Reducing Vulnerability to Disasters*. Washington, D.C: Island Press.

Edited Books

Grover, H., Islam, T., & Slick, J. (Eds.). (2022). *Case Studies in Disaster Mitigation and Prevention: Disaster and Emergency Management*. Elsevier Case Studies in Adaptation and Innovation Series

Book Chapters

Grover, H. (2019). Chapter-9: "Hazard Mitigation and Climate Change Adaptation," in *Disaster Resilience: Integrating Mitigation, Preparedness, and Recovery Planning*, eds. Michael Lindell. Informa UK Limited.

Peacock, W.G, Meyer, M.A, Van Zandt, S., Grover, H., and Jacobs, F. (2019). Chapter-7: "The Adoption of Hazard Mitigation and Adaptation Policies, Programs, and Actions by Local Jurisdictions along the Gulf and Atlantic Coasts," in *Disaster Resilience: Integrating Mitigation, Preparedness, and Recovery Planning*, eds. Michael Lindell. Informa UK Limited.

Grover, H., Tang, Z., and Zhao, N. (2012). "Incorporating Climate Change Mitigation and Adaptation into Local Land Use Planning," in *Land Use: Planning, Regulations, and Environment*. Hauppauge, NY: NOVA Science Publisher, 101-124.

Peacock, W. G., Van Zandt, S., Henry, D., Grover, H., and Highfield, W. (2012). Chapter 7: "Social Vulnerability and Hurricane Ike: Using Social Vulnerability Mapping to Enhance Coastal Community Resiliency in Texas," in *Severe Storm Prediction, Impact, and Recovery on the Texas Gulf Coast*, eds. Phillip B. Bedient. College Station, Texas: Texas A&M Press.

Selected Professional Reports

Grover, H. Pranjali Rai, 2023. *Community Resilience to Natural Disasters in Rural Counties of Western Upper Peninsula in Michigan*. Institute for Hazard Mitigation Planning and Research, University of Washington: Seattle.

Grover, H. 2019. *FEMA Region 10 – Volcano Risk Assessment*. FEMA Region 10 Hazard Mitigation Branch.

Grover, H. 2018. *Hazard Inventory and Vulnerability Analysis (HIVA) for Washington State*. Emergency Management Division, WA.

Grover, H. and Bob Freitag. 2018. *Hazard Mitigation Plan for City of Everett, Washington*. City of Everett.

Grover, H. 2016. *RAPID: Policy Dialogue during the Response-Recovery Transition Phase and its Implications for Long-term Recovery: Case Study, Katmandu (Nepal)*. Institute for Hazard Mitigation Planning and Research, University of Washington: Seattle.

Grover, H. 2016. *Community Outreach and Equity Plan for Portland Hazard Mitigation Plan Update*. Institute for Hazard Mitigation Planning and Research, University of Washington: Seattle.

Peacock, W.G., Grover, H. Wunneburger, Brody, S. VanZandt, R. Husein, H. J. Kim, F. Ndubisi, and J. Martin. 2011. *The Status and Trends of Coastal Vulnerability to Natural Hazards Project. Annual Report for Phase 4. Hazards Reduction and Recovery Center, Texas A&M University: College Station, Texas*.

B. Research Grants

2022-25 Principal Investigator (PI): *Assessing the Expectations Gap – Impact on Critical Infrastructure Service Providers' and Consumers' Preparedness, and Response*. Funding Agency: National Science Foundation. Co-PIs: Youngjun Choe; Michael Lindell; Branden Johnson (Decision Research). \$538,617.

- 2022-23 Principal Investigator (PI): REU-Supplement: Assessing the Expectations Gap – Impact on Critical Infrastructure Service Providers’ and Consumers’ Preparedness, and Response. Funding Agency: National Science Foundation. Co-PIs: Youngjun Choe. \$16,000.
- 2021-24 Co-Investigator: SCC-CIVIC-FA Track B: Helping Rural Counties to Enhance Flooding and Coastal Disaster Resilience and Adaptation. Phase 2. Funding Agency: National Science Foundation. PI- Thomas Oommen (MTU). \$990,000.
- 2020-21 Co-Investigator: SCC-CIVIC-FA Track B: Helping Rural Counties to Enhance Flooding and Coastal Disaster Resilience and Adaptation. Phase 1 Planning Grant. Funding Agency: National Science Foundation. PI- Thomas Oommen (MTU). \$50,000.
- 2018-19 Principal Investigator (PI): WA State Risk Analysis and Hazard Mitigation Portal. Funding Agency: Federal Emergency Management Agency (FEMA). \$110,000.
- 2017-18 Principal Investigator (PI): Risk Analysis for WA State Enhanced Hazard Mitigation Plan. Funding Agency: WA Emergency Management Department (WAEMD). \$92,000.
- 2016-17 Principal Investigator (PI): Integrated Modeling for Estimating Shelter Demand using HAZUS. Funding Agency: Federal Emergency Management Agency (FEMA) Region X. \$59,090.
- 2016-18 Principal Investigator (PI). Scenario-based Flood Risk Mapping. Funding Agency: DHS S&T Critical Infrastructure Resilience Center of Excellence. \$280,000. Co-PI: Bob Freitag.
- 2015-16 Principal Investigator (PI). RAPID: The Response-Recovery Transition Phase and its Implications for Long-term Recovery: Case Study, Katmandu. Funding Agency: National Science Foundation. \$48,901.
- 2013-14 Co-Investigator. Partnership Grant: Borders in Globalization. PI - E. Brunet-Jailly (Univ. Of Victoria, Canada), and 40 Other Co-PIs from 22 universities world over. Funding Agency: Social Science and Humanities Research Council (Canada). \$2.3 million.
- 2012-14 Co-Investigator. Climate Change Adaptation Plan and Participatory web-GIS Platform for Regional Plan for Sustainable Development of Buffalo Niagara Region. PI- Buffalo Niagara Consortium with the Lead Agency, Greater Buffalo-Niagara Regional Transportation Council. Funding Agency: HUD 2011 Sustainable Communities Award. \$1.2 million
- 2013-14 Principal Investigator (PI). REU Supplemental Funding: The Adoption and Utilization of Hazard Mitigation Practices by Jurisdictions along Gulf and Atlantic Coasts. Funding Agency: National Science Foundation. \$6400.
- 2012-17 Co-Investigator. The Adoption and Utilization of Hazard Mitigation Practices by Jurisdictions along Gulf and Atlantic Coasts. PI- Walter G Peacock. Other Co-PI: Shannon Van Zandt. Funding Agency: National Science Foundation. \$450,000.
- 2011-13 Co-Investigator. Status and Trends of Coastal Vulnerability to Natural Hazards: cycle 15. Texas General Land Office/NOAA. PI: Walter G Peacock. Other Co-PIs: Sam Brody, Douglas F. Wunneburger. Funding Agency: Texas General Land Office. \$149,000.

Under Review

- 2025-27 Co-Investigator. RAISE: CHIRRP: Community-based climate scenarios to support planning and adaptation in the Whidbey Basin, Washington. PI: Eric Salathe. NSF. \$999,983.

C. Refereed Paper Presentations

- 2024 Grover, H. and J. Anthony. Influence of State Growth Management Regulations on Sprawl. ACSF 2024 Annual Conference. Nov 7-9. Seattle.
- 2023 Rai, P., and Grover, H. Context-specific operationalization of community resilience in rural areas. 48th Annual Natural Hazards Workshop, July 9-12, 2023, Broomfield, Colorado.
- 2023 Rai, P., Grover, H., & Oommen, T. Context-specific operationalization of community resilience in rural areas: identification of relevant indicators based on local public perspective. Abstract

- ID: 1148, 63rd Annual Conference of the Association of Collegiate Schools of Planning, October 19-21, 2023, Miami, Florida.
- 2022 Thomas, J., Mohan, S., Thalakkottukara, N.T., Oommen, T., Watkins, M.K., Grover, H., Williams, R., & Meadows, G. Development of a flood risk modeling system for enhanced resilience of rural regions. AGU Fall Meeting 2022, December 12-16, Chicago, Illinois.
- 2021 Grover, H. COVID-19 Pandemic: Effect on Built Environment Preferences. Presentation at Annual Conference of ACSP, All Virtual Event. Oct 22.
- 2021 Grover, H. Climate Change Planning realities: Equity, Inclusion, and Fiscal Impacts. Presentation at Annual Conference of ACSP, All Virtual Event. Oct 7.
- 2018 Grover, H. Equity Considerations in Comprehensive Plans: Equity Analysis of 21 North American Urban Comprehensive Plan. Presentation at 56th Annual Conference of ACSP, Buffalo, NY.
- 2018 Grover, H. and Sofia Dermisi. Modelling the Impact of Floods on Single Family Home Prices in Houston Metropolitan Area. Presentation at 34th Annual Meeting of American Real Estate Society, Bonita Springs, Florida. Apr 13.
- 2016 Grover, H. Impact of Land Use Management and Zoning Regulations on Community Exposure to Risks from Climate Change in Coastal Communities. Accepted Presentation at 56th Annual Conference of ACSP, Portland. Nov 3.
- 2016 Grover, H., Jon, I., and Chalana, M. Challenges and Opportunities in Transition Period from Disaster Response to Recovery: The Case of Kathmandu, Nepal. Presentation at 56th Annual Conference of ACSP, Portland. Presenter: Chalana, M. Nov 5.
- 2016 Grover, H., Freitag, B., and Salathe, E. Climate Change Uncertainties and Floodplain Management. Presentation at Northwest Regional Floodplain Management Association 2016 Annual Conference. Participatory Session. Sep 23.
- 2016 Grover, H. and Freitag, B. Scenario-based Flood Risk Mapping. Presentation at Resilience Week 2016, Chicago. Aug 17.
- 2015 Grover, H. An Integrated Model of Land Use Planning for Adapting to Climate Change. Presentation at 55th Annual Conference of ACSP, Houston. Oct 24.
- 2015 Grover, H. Expert Panelist on Climate Variation, Climate Change, and Local Responses. At 40th Annual Natural Hazards Workshop, Broomfield, CO. Jul 21.
- 2014 Grover, H. Coastal Disaster Planning and Vulnerability. Discussant at 54th Annual Conference of ACSP, Philadelphia. Nov 2.
- 2014 Grover, H. How Can Urban Planning Better Engage With Energy? Presentation at 54th Annual Conference of ACSP, Philadelphia. Oct 30.
- 2012 Grover, H. Risk-Stress-Capacity Framework for Analyzing State Climate Action Plans. Presentation at 53rd Annual Conference of ACSP, Cincinnati. Nov 2.
- 2011 Grover, H. Assessing the Role of Climate Variability and Change In Local Planning and Policy Making (Case Study - Buffalo-Niagara Falls Metropolitan Area). Presentation at 52nd Annual Conference of ACSP, Salt Lake City. Oct 14.
- 2010 Grover, H., Brody, S, and Vedlitz, A. Examining Climate Change Mitigation and Adaptation Behaviors Among Public Sector Organizations. Presentation at 51st Annual Conference of ACSP, Minneapolis. Oct 8.
- 2009 Grover, H. Local Response to the Global Challenge of Climate Change: Planning For Climate Change Management. Presentation at 50th Annual Conference of ACSP, Crystal City. Oct 1.
- 2009 Grover, H., Brody, S, and Vedlitz, A. Examining the Willingness of Americans to Alter Behavior to Mitigate Climate Change. Presentation at 50th Annual Conference of ACSP, Crystal City.
- 2009 Grover, H. and Brody, S. Explaining local commitment to climate change policy in the United States through the dimensions of risk, stress, and capacity. Presentation at Cities and

- Climate Change: Responding to an Urgent Agenda, Fifth World Bank Urban Research Symposium, Marseille, France. Jun 29.
- 2008 Grover, H. Global Impression of Local Planning: Effect of planning on Climate Change Management. Presentation at UNU-EHS Summer Academy. Jul 30.
- 2008 Grover, H. Analyzing level of Risk Exposure Along Texas Coast. 33rd Annual Hazards Research and Applications Workshop, Colorado. Jul 14.
- 2008 Grover, H. Effect of Planning on Climate Change Management. Oral presentation at 49th Annual Conference of ACSP, Chicago. Jul 8.
- 2007 Grover, H. A Model for Climate Change Resilience Planning. Poster presented at 48th Annual Conference, ACSP, Milwaukee, Wisconsin. Oct 20.
- 2007 Grover, H. Risk, Stress, and Capacity: Explaining Metropolitan Commitment to Climate Protection. Presentation at 48th Annual Conference, ACSP, Milwaukee, Wisconsin. Oct 20.
- 2007 Grover, H., and Brody, S. Coastal Communities Planning Atlas. Poster presented at 32nd Annual Hazards Research and Applications Workshop, Boulder Colorado. Jul 9.
- 2006 Grover, H. Planning for Climate Change. Oral presentation at Planners for Tomorrow (P4T) Forum, World Habitat Forum, Vancouver, Canada. Jun 19-23.
- 2005 Grover, H. Adapting to Global Climate Change. Poster presented at Annual Texas State Conference, American Planning Association (APA) Fort Worth, Texas. Oct 13.
- 2005 Grover, H., Prater, C., Arkilatti, S. and Peacock, W. Social Vulnerability Assessment of Tsunami-2004 affected habitation in Nagapattinam District of India. Poster presented at 30th Annual Hazards Research and Applications Workshop, Boulder, Colorado. Jul 12.

D. Invited Keynote and Panelist

- 2024 Panelist. New Home, New Risk: Preparedness and Resilience for Immigrant Communities. Annual Natural Hazards Workshop 2024. Broomfield, CO.
- 2021 Panelist. Beyond COP26: Regional Cooperation for Climate. Hosted online by The National Bureau of Asian Research. Dec 1.
- 2021 Expert Speaker. Nontraditional Security Challenges in South Asia. Hosted online by The National Bureau of Asian Research. Mar. 31.
- 2020 Panelist. All-Hazards Approach to Community-Based Disaster Risk Mitigation. Hosted by U.S. Consulate General Chennai. Oct. 15.
- 2019 Keynote Speaker. Disaster Management Education/Training for Enhancing Community Resilience. America with Kerala Workshop at Ernakulam, India. Organized by U.S Consulate General in Chennai & Centre for Public Policy Research (Kerala, India). Jul. 25.
- 2019 Expert Speaker. Adaptive Planning for Urban Resilience and Increasing Resilience through Multistakeholder Participation. America with Kerala Workshop at Ernakulam, India. Organized by U.S Consulate General in Chennai & Centre for Public Policy Research (Kerala, India). Jul. 24.
- 2019 Expert Speaker. Disaster Management Education/Training for Enhancing Community Resilience. America with Kerala Workshop at Thiruvananthapuram, India. Organized by U.S Consulate General in Chennai & Centre for Public Policy Research (Kerala, India). Jun. 24.
- 2019 Expert Speaker. Building Resilience to Natural Hazards through Stakeholder Engagement. America with Kerala Workshop at Thiruvananthapuram, India. Organized by U.S Consulate General in Chennai & Centre for Public Policy Research (Kerala, India). Jun. 25.
- 2018 Discussant. Overflow: Spatial Spillovers from a Flood Event. 34th Annual Meeting of American Real Estate Society, Bonita Springs, Florida. Apr. 13

E. Academic and Professional Affiliations

American Institute of Certified Planners (AICP); American Planning Association (APA); Associate, Institute of Town Planners of India (AITP); Association of Public Policy Analysis & Management (APPAM)

F. Fellowships, Awards & Honors

- 2023 Fellow, National Science Foundation (NSF) Game Changer Academies
- 2021 Nonresident Fellow, National Bureau of Asian Research (NBR)
- 2015 Research Fellowship, NSF-sponsored Enabling the Next Generation of Hazards & Disasters Researchers
- 2008 International Research Fellow, United Nations University- IEHS Summer Academy: Environmental Change, Migration, & Social Vulnerability at Munich, Germany.
- 2007 Best Paper Award, Journal of American Planning Association. For "The Rising Costs of Floods: Examining the Impact of Planning and Development Decisions on Property Damage in Florida."

IV. Professional Practice

- 2023-24 Expert Consultant, Four Peaks Environmental Science & Data Solutions LLC
Data Ontology & Taxonomy Research for National Fish and Wildlife Foundation
- 2022-23 Expert Trainer, Disaster Management Curriculum for India. Trained academicians, practitioners, and civil service staff in disaster management approaches and policymaking. US Department of State, Fulbright-Hays Funding Program, American Consulate General – Chennai (India).
- 2021-22 Education Expert, Development of 40-hr Disaster Management Curriculum for India. Developed teaching resources including lectures for undergraduate, graduate, and professional programs in India. US Department of State.
- 2019-20 Short Term Consultant. Created terms of reference for India's regional climate change assessment and disaster risk reduction study. World Bank.
- 2017-18 Technical Consultant/Developer. Design and Implementation of Resilient Texas Dashboard (<http://resilient-texas.com>). Center for Texas Beaches and Shores. Texas A&M University at Galveston.
- 2015-16 Expert Consultant/Principal Investigator. Civic Engagement Strategy for Portland Hazard Mitigation Plan Update. Portland Bureau of Emergency Management. Sub-contractor to TetraTech Pvt. Ltd.
- 2015-16 Expert Consultant. Online Galveston Bay Area Coastal Communities Planning Atlas Update. Bay Area Coastal Protection Alliance, Galveston, Texas.