

PROFESSIONAL EXPERIENCE

Appointments

2016 – Present	Associate Director, Texas Target Communities Program, Texas A&M University
2016 – Present	Engagement Coordinator, Institute for Sustainable Communities, Texas A&M University
2017 – Present	Co-Director, Community Resilience Collaborative, Texas Sea Grant Program
2013 – 2016	Program Coordinator, Texas Target Communities Program, Texas A&M University
2011 – 2013	Research Associate, Hazard Reduction & Recovery Center, Texas A&M University
2008 – 2011	Secondary Education Teacher, McKinney North High School
2007 – 2008	Landscape Designer, Talley Associates

Texas Target Communities Program at Texas A&M University

June 2013 - present

Associate Director of the interdisciplinary high-impact service learning and community outreach program which fosters the transformation of vulnerable communities from high-risk and low-opportunity to equitable, resilient, and adaptive. Played a pivotal role to expand the small departmental program to a community-focused and inclusive plan-making program within multiple communities to fully meet needs with a place-based approach resulting in 31 MOAs over 5 years.

- Facilitate community engagement workshops on visioning, goal setting, and needs assessments
- Guide planning staff on writing plans with best and promising strategies
- Manage 5-9 project managers in producing community deliverables
- Design and create translation materials, including publications, guidebooks, training materials, reports, websites, banners, brochures, and social media content
- Grow network of partners and subject matter experts to meet community needs
- Prepare budgets, manage accounts, develop contractual agreements
- Lead community engagement efforts on grant projects related to planning and community resilience such as DHS, EPA, NSF, NIH.
- Notable Projects: Liberty County, TX (from 2015 to 2016 Liberty County had 5 disaster declarations). Managed community relationships to build capacity and resilience. Developed a strategic land use plan (unheard of in Texas county govt.). The project focused on land use regulations and low impact development to keep people out of the floodplain. The plan won the Current Planning Award of the Texas Chapter of the American Planning Association.

Institute for Sustainable Communities at Texas A&M University

2016 - present

Associate Director for Engagement of the provost-level institute. Works closely with a team of interdisciplinary faculty to launch and establish the institute in 2016. The institute conducts transformative research, engages communities, and provides high impact service learning to create resilient people, communities, and ecosystems.

- Manage community relationships and projects to create a fundamentally different way to identify and tackle critical disaster resiliency and climate change challenges that threaten neighborhoods in Houston. Work collaboratively with partners, Texas Environmental Justice Advocacy Services (T.E.J.A.S.), the Green Institute at Furr H.S., and Charity Productions, to develop place-based solutions through community-driven projects. Projects have included on-the-ground data collection using smart phone application technology, to map pooling water and the quality of infrastructure, sample water for heavy metals, health survey and landscape architecture design strategies.
- Co-principal investigator of the Plan Integration *for Resilience* Scorecard, funded through the DHS Coastal Hazards Center of Excellence at University of North Carolina Chapel Hill. Translated the research methodology into a user-friendly guidebook that evaluates a community's network of plans to reveal incongruities in planning for hazards. Worked with leadership in the APA-HMDR division and subject matter experts to advise the scorecard project. Trained national audiences including APA, ASFP, FEMA, and

three end-user communities to test and validate the scorecard--League City, TX, Norfolk, VA, and Nashua, NH. Updates on the project found at: <http://coastalresilienceblog.web.unc.edu/>.

Community Resilience Collaborative at Texas A&M University 2017- present
Co-director of a collaborative partnership between Texas Sea Grant, Hazard Reduction & Recovery Center, Institute for Sustainable Communities, Department of Landscape Architecture and Urban Planning, and Texas Target Communities Program. The collaborative coordinates efforts with teams of planners along the Texas coast to provide resiliency planning support.

Center for Housing and Urban Development at Texas A&M University 2018 - present
Associate Director for Engagement to work alongside communities and scholars of urban planning, architecture, landscape architecture, construction science, political science, sociology, engineering, and others to address problems of the built environment.

Hazard Reduction and Recovery Center at Texas A&M University January 2012 – May 2013
Research assistant to Dr. Walt Peacock and Dr. Shannon Van Zandt.

- Worked in collaboration with professors to redesign, reformat, and publish research document on planning for coastal resilience for lay-person audience
- Developed curriculum and trained planners and community leaders across the country on coastal resilience and newly prepared research document
- Assembled, provided creative guidance, and published training curriculum with Island Press

Dewberry October 2012- March 2013
Emergency Management Specialist (contract work) to conduct literature reviews on quantifying mitigation. Review and summarize methodological approaches and results from technical reports and academic publications.

Brazos County Emergency Operations Center in Bryan, TX June 2012 – August 2012
Led Dam Safety Program for Brazos County. Evaluated, analyzed, and compiled Texas Commission on Environmental Quality designated dam sites in the county.

McKinney North High School in McKinney, TX August 2008 - June 2011
Designed and taught differentiated and student-centered curriculum as a Co-teach Science teacher and a Vocational and Life Skills instructor for students entering the job market.

Talley Associates in Dallas, TX February 2008 - August 2008
Collaborated with a diverse team on coordination and implementation of landscape architecture and urban planning projects.

Huitt-Zollars, Inc. in Dallas, TX May 2007 - February 2008
Worked closely with engineers and landscape architects on material and product research, design, client communication, grading and drainage of sites, and on-site analysis.

EDUCATION

Master of Urban Planning, Suma Cum Laude | Texas A&M University, 2013 with Certificate in Environmental Hazard Management and Certificate in Sustainable Urbanism

Bachelor of Landscape Architecture, Cum Laude | Texas A&M University, 2007

PUBLICATIONS

Masterson, J.H., M. Meyer, N. Ghariabeh, M. Hendricks, R.J. Lee, S. Musharrat, G. Newman, G. Sansom, S. Van Zandt. "Interdisciplinary Citizen Science and Design Projects for Hazard and Disaster Education." *International Journal of Mass Emergencies and Disasters*. Vol. 37, No. 1.

Meyer, M., Hendricks, M., Newman, G., **Masterson, J.**, Cooper, J., Sansom, G., Gharaibeh, N., Horney, J., Berke, P., Van Zandt, S., and Cousins, T. "Participatory Action Research: Tools for Disaster Resilience Education." *International Journal of Disaster Resilience in the Built Environment*. Vol 9, Issue. 4, DOI: 10.1108/IJDRBE-02-2017-0015.

Masterson, Jaimie Hicks, Michelle A. Meyer, Nasir Ghariabeh, Marccus Hendricks, Ryun Jung Lee, Saima Musharrat, Galen Newman, Garrett Sansom, Shannon Van Zandt (*Forthcoming*). "Interdisciplinary Citizen Science for Hazard and Disaster Education," *International Journal of Mass Emergencies and Disasters*.

Masterson, J.H. and Barbour K. (*Forthcoming*). *Facilitating Quality Design and Community Engagement in Housing Recovery*. In W.G. Peacock, and S. Van Zandt (Eds.), *Planning for Disaster Resilience: A Handbook*. Routledge.

Masterson, J.H. and Cooper, J.T. (*Forthcoming*). The National Disaster Recovery Framework. In W.G. Peacock, and S. Van Zandt (Eds.), *Planning for Disaster Resilience: A Handbook*. Routledge.

Oti, Isaac C., Nasir G Gharaibeh, Marccus D Hendricks, Michelle Meyer, **Jaimie Masterson**, Jennifer Horney, Shannon Van Zandt, Philip Berke (*Forthcoming*) "Assessing the validity and reliability of drainage infrastructure monitoring data obtained from citizen scientists: results from a community field study," *Journal of Infrastructure Systems*.

Berke, Philip, Matthew Malecha, Situ Yu, Jaekyung Lee, **Jaimie H. Masterson** (2018). "Plan integration for resilience scorecard: evaluating networks of plans in six US coastal cities," *Journal of Environmental Planning and Management*, DOI: 10.1080/09640568.2018.1453354.

Hendricks, Marccus, Michelle Meyer, Nasir Gharaibeh, Shannon Van Zandt, **Jaimie Masterson**, John Cooper, Jennifer Horney, Philip Berke (2018) "The Development of a Participatory Assessment Technique for Infrastructure: Neighborhood-level Monitoring towards Sustainable Infrastructure Systems," *Sustainable Cities and Society* (38): 265-274. Berke, Philip, Malecha, M., Yu, S., Lee, J., Masterson, J.H. (2016). Proceedings from ACSP '16: *Plan Integration Scorecard for Resilience: Evaluating Networks of Plans in Six Coastal Cities*. Portland, OR.

Masterson, J.H. (2017, February). The Diamonds in the Swamp [Web blog post]. Institute for Sustainable Communities. Retrieved from <http://ifsc.tamu.edu/News/February-2017/Diamonds-in-the-Swamp>.

Masterson, J.H. (2016, January). *The Coastal Triple Threat of Natural Hazards* [Web blog post]. Island Press. Retrieved from <https://islandpress.org/blog/coastal-triple-threat-natural-hazards>.

Texas Senate. *Disaster Housing Recovery Program*. 84th Legis. Session. SB. 1376. Austin: filed March, 2015.

Hazard Reduction & Recovery Center at Texas A&M University, Community Development Corporation of Brownsville, buildingcommunityWORKSHOP, La Union Del Pueblo Entero, A Resource in Serving Equality, & Texas Low Income Housing Information Services (2015, January). *Rapid Housing Recovery Program, Policy Recommendations and Comparison Report*. Community Development Corporation of Brownsville and buildingcommunityWORKSHOP: Brownsville, TX.

Masterson, Jaimie Hicks, Peacock, W.G., Van Zandt, S.S., Grover, H., Schwarz, L.F., Cooper, Jr., J.T. (2014). *Planning for Community Resilience: A Handbook for Reducing Vulnerabilities to Disasters*. Island Press: Washington D.C. <https://goo.gl/ftM21E>.

Masterson, J.H. (2014, December). *Identifying Your Community's Vulnerability Hotspot* [Web blog post]. Island Press. Retrieved from <https://www.islandpress.org/node/803>.

TRAININGS & PRESENTATIONS

Masterson, Jaimie (2018, October). Opening Plenary, *Recovery and Resiliency: Lessons from Hurricane Harvey*. Moderator at Texas Chapter of American Planning Association Conference. Speakers Kimberly Miller, Andrea Brinkley, Pete Philips.

Berke, Philip and Masterson, J.H.. (2018, July). *Plan Integration for Resilience Scorecard: How to spatially evaluate networks of plans to reduce hazard vulnerability*. Trained Louisiana Sea Grant Program.

Berke, Philip and Masterson, J.H.. (2018, June). *Plan Integration for Resilience Scorecard: How to spatially evaluate networks of plans to reduce hazard vulnerability*. Trained FEMA's Community Planning and Capacity Building (CPCB) team.

Masterson, J.H. (2017, July). *A Guidebook + A Scorecard = An Integrative Framework for Community Resilience*. Panel format presented at the Natural Hazards Workshop, Broomfield, CO.

Berke, P., Hokanson, B., Masterson, J.H.. (2017, May). *Plan Integration for Resilience Scorecard: How to spatially evaluate networks of plans to reduce hazard vulnerability*. Presentation presented at the National Planning Conference of the American Planning Association, New York, NY.

Masterson, J.H. & Cooper, J. T. (2017, April). *Integrating Community plans to Reduce Losses: A Tool*. Presentation presented at the National Hurricane Conference, New Orleans, LA.

Plan Integration for Resilience Scorecard Training I Norfolk, VA. Developed and led half-day workshop on the plan integration for resilience scorecard. December 2016.

Plan Integration for Resilience Scorecard Training I in League City, TX. Developed and led half-day workshop on the plan integration for resilience scorecard. November 2016.

Masterson, J.H. & Berke, P. (2015, October). *Transformative Science: A feedback loop of local knowledge and interdisciplinary research*. Poster presented at the annual conference of the Association of Collegiate Schools of Planning, Houston, TX.

Masterson, J.H. (2015, October). *Women in Project Management*. Panelist at the monthly meeting of the Brazos Valley Project Managers Group, College Station, TX.

Van Zandt, S.S. & Masterson, J.H. (2015, July). *Rapid Disaster Housing Recovery Program*. Poster presented at the annual Natural Hazards Research and Applications Workshop at the University of Colorado, Broomfield, CO.

Masterson, J.H. (2015, February). *Planning for Community Resilience*. Book tour presentation at the monthly meeting of the American Institute of Architects San Francisco hosted by Island Press, San Francisco, CA.

- Masterson, J.H. (2015, February). *Planning for Community Resilience*. Book tour presentation at the monthly meeting of SPUR San Francisco hosted by Island Press, San Francisco, CA.
- Masterson, J.H. (2015, February). *Planning for Community Resilience*. Book tour presentation at Palo Alto Community Center hosted by Island Press, Palo Alto, CA.
- Masterson, J.H. (2015, February). *Planning for Community Resilience*. Book tour presentation at the monthly meeting of SPUR San Jose hosted by Island Press, San Jose, CA.
- Cooper, J.T., Van Zandt, S.S., & Masterson, J.H. (2014, August). *Assessing Vulnerabilities to Hazards*. Training presentation at the South Central Climate Center at the University of Oklahoma, Norman, OK.
- Wade, H., Ransom, K., & Masterson, J.H. (2014, May). *Coastal Vulnerabilities in the Coastal Bend: Realities and Solutions*. Presented at the annual Coastal Bend Hurricane Conference, Robstown, TX.
- Masterson, J.H. (2014, April). *Pecha Kucha: Gonzales, TX*. Presented at the annual conference hosted by the Sustainable Communities Year Program (SCYP), Eugene, OR.
- Masterson, J.H. (2014, April). *Developing Partnerships*. Panelist at the annual conference hosted by the Sustainable Communities Year Program (SCYP), Eugene, OR.
- Masterson, J.H. (2014, April). *Design in Disasters*. Paper presented at the Planning for Disaster Resilience Symposium hosted by the Hazard Reduction & Recovery Center at Texas A&M University, College Station, TX.
- Cooper, J.T., Andrews, K., & Masterson, J.H. (2013, October). *University Community Partnerships*. Presented at the annual conference of the Texas Chapter of the American Planning Association, Galveston, TX.
- Masterson, J.H. (2013, October). *Measuring Resilience at Multiple Scales*. Poster presented at the annual conference of the Texas Chapter of the American Planning Association, Galveston, TX.
- Masterson, J.H. (2013, January). *Growing Vulnerable- Development in the 100 year Floodplain*. Poster presented at the National Conference on Science, Policy, and the Environment- Disasters and Environment: Science, Preparedness, and Resilience, Washington, D.C.
- Masterson, J.H. (2012, October). *A Vulnerable Built Environment- Development in the 100 year Floodplain*. Poster presented at the annual Natural Built Virtual: College of Architecture Research Symposium, College Station, TX.
- Masterson, J.H. (2012, July). *An Analysis of Development Encroachment inside Houston MSA Floodplains*. Poster presented at the annual Natural Hazards Research and Applications Workshop at the University of Colorado, Broomfield, CO.
- Masterson, J.H., Lee, S.Y., & Lee, J. (2011, November). *Assessing Risk in Houston- An evaluation of land use patterns within the 100 year floodplain*. Poster presented at the annual GIS Day at Texas A&M University Libraries, College Station, TX.

GRANTS & AWARDS:

Pisces Foundation Grant from the American Planning Association Community Planning Assistance Team. (September 2018 – August 2019). Received grant with the City of Rockport to bring planning professionals from across the country to design resiliency solutions for downtown Rockport.

Federal Emergency Management Agency, Coastal Hazards Center of Excellence at UNC-Chapel Hill. (January 2018- December 2018). Co-principal investigator of “Research in Support of Floodplain Management Regulations Compliance.” This exploratory project evaluates how a range of existing and new FEMA local capacity building resources and enforcement strategies can be used to achieve community compliance with NFIP regulations of substantially damaged structures. The focus will be on communities with substantially damaged structures in the NFIP Special Flood Hazard Areas impacted by recent flood disasters.

Department of Homeland Security Coastal Hazards Center of Excellence at UNC-Chapel Hill. (January 2016- December 2019). Co-principal investigator to develop and pilot test a local resiliency planning scorecard to assess community vulnerability and the performance of the network of plans. Worked closely Norfolk, VA, Nashua, NH, and League City, TX to conduct full plan evaluation with scorecard.

Southeast Texas Hike and Bike Plan. Advised project, Texas Chapter of the American Planning Association Student Project Award 2018

Liberty County Strategic Plan. Advised project, Texas Chapter of the American Planning Association Current Planning Award 2017

Grimes County Thoroughfare Plan, Advised project, Texas Chapter of the American Planning Association Student Project Award Honorable mention 2017

Sunnyside Neighborhood Reclaiming Vacancies, Advised project, Texas Chapter of the American Planning Association Student Project Award 2017

Environmental Protection Agency Small Community Grant. (December 2015-November 2016). Engagement coordinator and partner with the Texas Environmental Justice Advocacy Services (t.e.j.a.s.) to collect localized data along the Houston Ship Channel.

XQ Foundation Grant. (Awarded September 2016). Engagement coordinator and partner with Furr High School of the Houston Independent School District who was awarded \$10 million for innovative re-thinking of schools and education.

La Grange Housing Needs Assessment. Advised project, Texas Chapter of the American Planning Association Student Project Award Honorable Mention 2015, Emily Tedford

RAPIDO, Rio Grande Valley Rapid Housing Recovery Program. The RAPIDO initiative involves TTC, the Hazard Reduction & Recovery Center, and the Center for Housing and Urban Development in a collaborative effort to produce a model disaster housing recovery demonstration project. Support came from the Ford Foundation through the bcWorkshop design and architecture firm. The report was provided to the Texas Legislature in the form of Rapid Housing Recovery Recommendations, Technical Guide, and Comparison Report.

STAR Performer Award, January 2016. Received for exemplary staff achievements at Texas A&M University.

APA Texas Chapter Student Project Award. Honorable Mention for the La Grange Housing Needs Assessment (2015).

Jesus Hinojosa Endowed Urban Planning Scholarship, April 2013

Department Head Award, Department of Landscape Architecture & Urban Planning, April 2013

1st Prize at Student Research Week Graduate Student Poster Competition, Engineering/Architecture Category, March 2013

Melbern G. Glasscock Humanities Award, March 2013, <http://srw.tamu.edu/>

2nd Prize, Vice President of Research Diversity Award, March 2013

Southern Texas Section of the American Planning Association 2012 Graduate Scholarship

Awarded the Master of Urban Planning Professional Advisory Council Excellence Endowed Scholarship for the 2012-2013 academic year