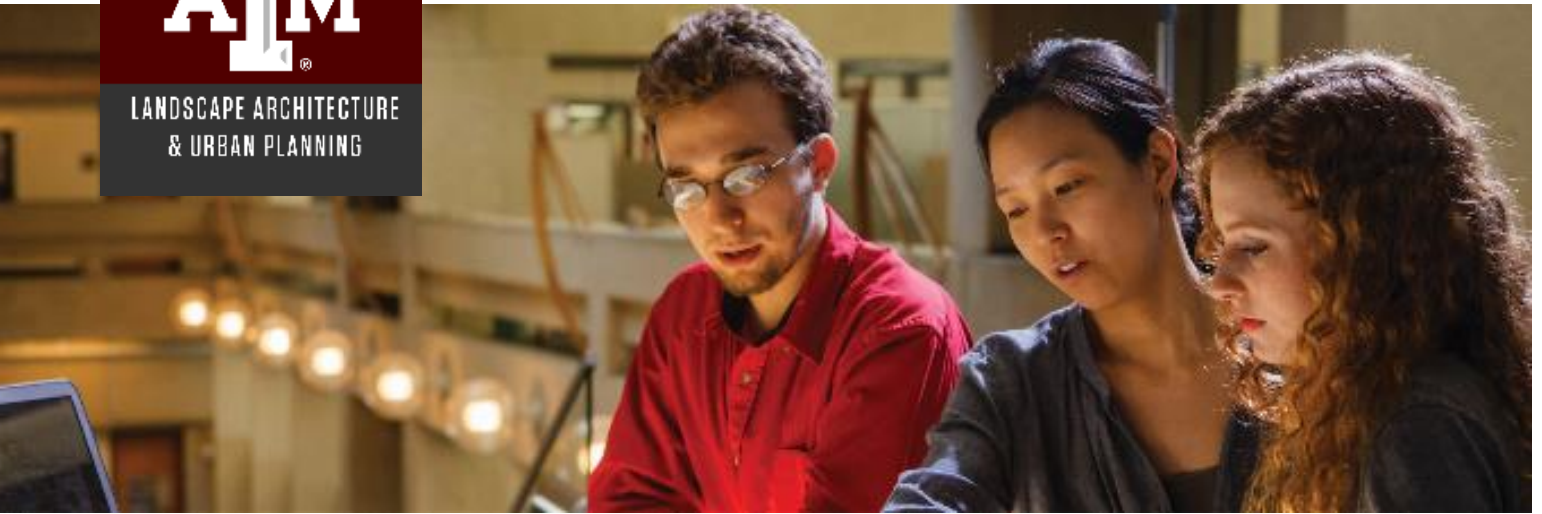




# Ph.D. PROGRAM HANDBOOK



Ph.D. Program in Urban and Regional Sciences  
Department of Landscape Architecture and Urban Planning  
Texas A&M University

November 2021

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# THE PROGRAM

## OVERVIEW

The Urban & Regional Sciences (URSC) program is one of the six degree programs in the Department of Landscape Architecture & Urban Planning, which is one of four departments in the College of Architecture. The program has a nearly 50-year history and continues to be one of the largest planning doctoral programs in the nation. The program is one of the 48 Ph.D. programs associated with the 78 universities with planning programs accredited by the Association of Collegiate Schools of Planning in North America.

The URSC program is transdisciplinary with a focus on landscape and urban planning issues. It emphasizes the interface of human systems with the natural environment, both in terms of the environment's impact on the human behavior and wellbeing, and human impact on ecological systems. Our alumni have assumed positions at universities, both as faculty and researchers, while others are working for government agencies.

The Department of Landscape Architecture and Urban Planning has a large faculty with diverse interests that revolve around the built and natural environments. The URSC educates students to become leading researchers and scholars in areas directly responsive to the challenges of the built environment. By allowing students to specialize in areas such as health systems, sustainability, housing and community development, transportation, and environmental hazards, the Ph.D. program seeks to produce graduates able to respond to the challenges of a changing world.

The URSC requires a minimum of 64 credit hours, including 32 credits of core curriculum, and 32 or more credits of electives and research credits. Students are required to have a master's degree before beginning the Ph.D. The minimum duration is about 3.5 years, but the average duration during the past 5 years has been about 5-6 years. Our current target duration is 4 years.

Doctoral students benefit from a robust and diverse set of faculty with expertise ranging from housing and community development, sustainability, land use, transportation, and environmental hazards. Our hazards group is particularly strong and notable; our best placements and publication records have come out of this group. Our faculty's strong record of external funding provides many opportunities for students to engage in funded research as part of their training. Further, they get to participate in grant writing, project management, data collection, analyses, and writing. Nearly all students graduate with one or more publications, as well as experience in the classroom.

An assessment of our learning outcomes indicates that the majority of our graduates demonstrate a strong or excellent grasp of program competencies, and that all demonstrate an adequate grasp. The record of placements and publications for our recent graduates is remarkable. Reporting from 29 out of 52 graduates of the program from 2012-2018, our graduates have produced 169 peer-reviewed publications, and 105



other publications. Recent placements include tenure-track positions at Virginia Tech, University of Washington, University of Maryland, University of Minnesota, University of Wisconsin—Madison, Auburn University, University of Oklahoma, University of Connecticut, University of North Dakota, Oklahoma State University, University of North Texas, as well as a long list of tenure-track positions in South Korean, Chinese, and Indonesian universities.

Currently, the program is stable and robust. It would benefit from a strategic effort to improve student guidance through the program in a timely manner. More consistent feedback on progress, and more consistent advising across students could improve our retention rates and shorten time to graduation. Efforts are underway to improve in these areas.



## MISSION AND GOALS

The mission of the Ph.D. program in Urban and Regional Science is develop scholars of distinguishing excellence in landscape, urban and environmental planning. The strategic plan goals of the URSC doctoral program are:

1. **Flagship Doctoral Program**—Flagship doctoral program offering a unique opportunity of developing expertise in applied transdisciplinary research, with a curriculum tailored to students' areas of interest within landscape, urban planning, and land development domains.
2. **Specialty Area Expertise**—Expertise in area of specialization that applies to landscape, urban planning, and land development problems of community, regional, and national or international habitats and systems.
3. **Applied Research Expertise**—Expertise in research process and application to landscape, urban planning, and land development problems.
4. **Professional Communication**—Communication and dissemination of innovative research and projects that improve landscape architecture, urban planning, and land development professions.
5. **Professional Education**—Education of professionals for research, education and practice in the fields of landscape architecture, urban planning, and land development.
6. **Service to Professions**—Service for landscape architecture, urban planning, and land development professional organizations, and general communities.
7. **Application of Knowledge**—Service for landscape architecture, urban planning, and land development professional organizations, and general communities.





## EMPHASIS AREAS

Emphasis areas are areas of study in which the program has a critical mass of faculty engaged in teaching and research activities. Examples of emphasis areas include, but are not limited to:

### Environmental Hazards

Natural and technological hazards and disasters often impinge on human activity and ecosystem function. From hurricanes, floods, and heat waves to oil spills and chemical explosions, this emphasis area examines how people come to recognize, plan for, respond to, and recover from environmental hazards that threaten human life, health, and property as well as ecosystem function. Students interested in environmental hazards at Texas A&M University take part in colloquia, internships, research, and other scholarly and applied practitioner activities in conjunction with the Hazard Reduction & Recovery Center (Chaired by Michelle Meyer).

### Publications (Selected)

- Atoba, K. Brody, S. Highfield, W., and Merrell, W. (2018). Estimating Residential Property Loss Reduction from a Proposed Coastal Barrier System in the Houston-Galveston Region., *Natural Hazards Review* 19(3).
- Berke, P., Yu, S., Malecha, M., & Cooper, J. (2019). Plans that Disrupt Development: Equity Policies and Social Vulnerability in Six Coastal Cities. *Journal of Planning Education and Research*. 0739456X19861144.
- Brody, S. & Atoba, K. (2018). Institutional Resilience: The Example of Flood Resiliency in the United States. In S. Fuchs & T. Thaler (Eds.), *Vulnerability and Resilience to Natural Hazards* (pp. 237-256). Cambridge: Cambridge University Press.
- Hamideh, S., and Rongerude, J. (2018). Social Vulnerability and Representation in Recovery Decisions: Public Housing Recovery in Galveston, Texas following Hurricane Ike. *Natural Hazards*. Vol. 93, Issue 3, pp 1629–1648.
- Malecha, M.L., Brand, A.D., & Berke, P.R. (2018). Spatially evaluating a network of plans and flood vulnerability using a Plan Integration for Resilience Scorecard: A case study in Feijenoord District, Rotterdam, the Netherlands. *Land Use Policy*, 78, 147-157. DOI: 10.1016/j.landusepol.2018.06.029
- Mansury, Y., Ye, X., & Yoon, D. (2021) Structural path analysis of extreme weather events: an application to Hurricane Katrina and Superstorm Sandy. *Applied Geography*. doi: 10.1016/j.apgeog.2021.102561
- Masterson, J., Meyer, M., Ghariabeh, N., Hendricks, M., Lee, R. J., Musharrat, S., ... & Van Zandt, S. (2019). Interdisciplinary citizen science and design projects for hazard and disaster education. *International journal of mass emergencies and disasters*, 37(1), 6.
- Meyer, M., Hendricks, M.D., Horney, J., Berke, P.R., Masterson, J., Newman, G., Sansom, G., Van Zandt, S. & Cooper, J. (2018). Participatory Action Research: Tools for Disaster Resiliency Education. *International Journal of Disaster Resilience in the Built Environment*.
- Ning, H., Li, Z., Ye, X., Wang, S., Wang, W., & Huang, X. (2021) Exploring the vertical dimension of street view image based on deep learning: a case study on lowest

floor elevation estimation. *International Journal of Geographical Information Science*. doi: 10.1080/13658816.2021.1981334

- Roberts, A., & Matos, M. (2020). Adaptive liminality: Bridging and bonding social capital between urban and rural Black meccas. *Journal of Urban Affairs*, 1-22.
- Watson, M., Xiao, Y., Helgeson, J., & Dillard, M. (2020). Importance of Households in Business Disaster Recovery. *Natural Hazards Review*, 21(4), 05020008.
- Woodruff, S. C., Meerow, S., Stults, M., & Wilkins, C. (2018). Adaptation to resilience planning: Alternative pathways to prepare for climate change. *Journal of Planning Education and Research*, 0739456X18801057.
- Xiao, Y., & Watson, M. (2019). Guidance on conducting a systematic literature review. *Journal of Planning Education and Research*, 39(1), 93-112.
- Ye, X., Wang, S., Lu, Z., Song, Y., and Yu, S. (2021). Towards an AI-driven Framework for Multi-scale Urban Flood Resilience Planning and Design. *Computational Urban Science*. doi: 10.1007/s43762-021-00011-0
- Yu, S., Brand, A. D., & Berke, P. (2020). Making Room for the River. *Journal of the American Planning Association*, 1-14.
- Yue, Y., Dong, K., Zhao, X., & Ye, X. (2021) Assessing wild fire risk in the United States using social media data. *Journal of Risk Research*. 24:8, 972-986. doi:10.1080/13669877.2019.1569098

#### **Funded Research Projects (Selected)**

- “Coastal Flood Risk Reduction Program: Integrated, multi-scale approaches for understanding how to reduce vulnerability to damaging events.” (2016-2022), National Science Foundation Partnerships for International Research and Education (PIRE) Program, P.I. – Brody, S. and Co P.I.’s – Merrell, W., Highfield, W., Dalvesheridze, M, Figlus, J. Berke, P., Newman, G., Bardenhagen, E., Gunn, J., Carlton, S., Whalen, R., Richardson, T., Gilmer, B., Perdue, A., Bedient, P., Padgett, J., Jonkman, B., Meyer, H., Nillesen, A., Kothuis, B., & Slinger, J.
- Community Engagement Core. “Comprehensive tools and models for addressing exposure to mixtures during environmental emergency-related contamination events.” (2017-2022), National Institute of Environmental Health Sciences P42ES027704-01. Director, Rusyn, I., P.I. – CEC Newman, G. & Co-P.I. Horney, J.
- “Estimating and Addressing Disaster Survivors’ Unmet Needs: A Social Vulnerability and Social Infrastructure Approach” (2020-2025), National Science Foundation, PI: Michelle Meyer
- “Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston” (2020-2023), Environmental Protection Agency, PI’s: Newman, G. & Chiu, W
- “Green infrastructure plans for flood and storm water hazards reduction in the Texas coastal region” (2018-2021), Texas Sea Grant and National Oceanic and Atmospheric Administration, PI: Plotkin, P. & Co. P.I.’s Van Zandt, S., Newman, G. & Woodruff, S.
- “Organizational development, operations, and new media among civilian flood-rescue groups” (2019-2022), National Science Foundation, PI: Michelle Meyer
- “Modeling the Vulnerability of Mobile Home Parks to Disaster: A Longitudinal Study of Affordable Housing Loss After Hurricane Harvey” (2018-2021), National Science Foundation, PI: Shannon Van Zandt

- “Rapid damage prediction from social media using historical big data and deep learning” (2021-2022), Microsoft AI for Humanitarian Action, PI: Yalong Pi, co-PIs: Xinyue Ye, Nick Duffield
- “Accelerator Pilot (RAISE): Open Knowledge Network for Spatial Decision Support”, (2019-2020), National Science Foundation. Institutional PI: Xinyue Ye
- “Coastal Flood Visualization with Mobile Virtual and Augmented Realities for Risk Communication”, (2021-2022), T3: Texas A&M Triads for Transformation, PI: David Retchless, co-PIs: Xinyue Ye, Galen Newman
- “Understanding Repeat Disruption to Small, Minority-Owned, and Rural Businesses with Applications to Economic Diversification and Organizational Resilience in the Gulf Coast”, (2021-2023), NOAA, PIs: Maria Watson, Michelle Meyer, Rebekka Dudensing, Joy Semien

## Sustainability

The sustainability emphasis area draws on transdisciplinary research and methods to solve complex problems promoting the integrity of human and natural ecosystems, raising the quality of life in human settlements, building community resilience and sustaining equitable development. Students in this area often work closely with the College of Architecture's research centers and associated research units, including the Institute for Sustainable Communities (Chaired by Andrew Rumbach).

## Publications (Selected)

- An, L., V. Grimm, A. Sullivan, B.L. Turner II., N. Malleson, A. Heppenstall, C. Vincenot, D. Robinson, X. Ye, J. Liu, E. Lindvist, and W. Tang. (2021) Challenges, tasks, and opportunities in modeling agent-based complex systems. *Ecological Modeling*. doi: 10.1016/j.ecolmodel.2021.109685
- Berke, P., Malecha, M., Yu, S., Lee, J., & Masterson, J. (2019). Plan Integration for Resilience Scorecard: Evaluating Networks of Plans in Six US Coastal Cities. *Journal of Environmental Planning and Management*, 1-20.
- Berke, P., Yu, S., Malecha, M., & Cooper, J. (2019). Plans that Disrupt Development: Equity Policies and Social Vulnerability in Six Coastal Cities. *Journal of Planning Education and Research*, 0739456X19861144
- Dvorak, B. (2021) *Ecoregional Green Roofs: Theory and Application in the Western USA and Canada*, Cities and Nature, Springer International, Cham, Switzerland
- Dvorak, B., Yang, S., Menotti, T., Pace, Z., Mehta, S., & Ali, A. K. (2021). Native Plant Establishment on a Custom Modular Living Wall System in a Humid Subtropical Climate. *Urban Forestry & Urban Greening*, 127234.
- Marccus D.H., Meyer, M.A., Gharaibeh, N.G., Van Zandt, S., Masterson, J., Cooper, J.T., Horney, J.A., and Berke, P. (2018). The development of a participatory assessment technique for infrastructure: Neighborhood-level monitoring towards sustainable infrastructure systems. *Sustainable cities and society*, 38 (2018): 265-274.
- Mowrer, J., Merrill, J., Conlee, D., Marble, J., & Dvorak, B. Rooftop urban agriculture for the small stakeholder. *Journal of Living Architecture*, 6(2), 1-16
- Hendricks, M. D., Meyer, M., Gharaibeh, N., Van Zandt, S., Masterson, J., Cooper, J., Horney, J., & Berke, P. (2018). The Development of a Participatory Assessment Technique for Infrastructure: Neighborhood-level Monitoring Towards Sustainable Infrastructure Systems. *Sustainable Cities and Society*, 38, 265-274



- Kim, J. M., Son, K., & Kim, Y. J. (2018). Assessing Regional Typhoon Risk of Disaster Management by Clustering Typhoon Paths. *Environment, Development and Sustainability*, 1- 14.
- Kim, Y., Newman, G. (2019). Climate Change Preparedness: Comparing Future Urban Growth and Flood Risk in Amsterdam and Houston. *Sustainability*. 11(4), 1048.
- Kim Y-J and Woo A (2015). Estimating Natural Environmental Characteristics of Subsidized Households: A Case Study of Austin, Texas, *Sustainability*, 7(10), 13433-13453.
- Lee, H.K. (2018). The Potential Implementation of Green Infrastructure Assessment Using High Resolution National Agriculture Imagery Program (NAIP) Data for Sustainable Hazard Mitigation. *The International Journal of Sustainable Development & World Ecology*, 25(4), 371-381.
- Park, J., Kim, J. H., Dvorak, B., & Lee, D. K. (2018). The role of green roofs on microclimate mitigation effect to local climates in summer. *International Journal of Environmental Research*, 12(5), 671-679.
- Shin, M.H., Lee, H.K., & Kim, H.Y. (2018). Benefit-Cost Analysis of Building Information Modeling (BIM) in a railway site. *Sustainability*, 10, 1-10.
- Sohn, W., Kim, J.H., Li, M.H., Brown, R.D. and Jaber, F.H., 2020. How does increasing impervious surfaces affect urban flooding in response to climate variability? *Ecological Indicators*, 118.
- Sutley, E.J., and Hamideh, S. (2017). An Interdisciplinary Model for Post-Disaster Housing Recovery. *Journal of Sustainable and Resilient Infrastructure*, 3(3), pp 109-127.
- Winslow, J.F. (2020). Foundations for an Interdisciplinary Approach to Green Infrastructure. *Landscape Research Record*, No. 9, 205-214
- Winslow, J.F. (2021). Multifunctional green infrastructure: planning and design for long-term care. *Journal of Socio-ecological Practice Research*, 1-16
- Won, J., Lee, J. 2018. Investigating How the Rents of Small Urban Houses are Determined: Using the Spatial Hedonic Modeling for the Urban Residential Housing in Seoul. *Sustainability*.10 (1), 31
- Ye, X., Wang, W., Zhang, X., Li, Z., Yu, D., Du, J., Chen, Z. (2021) Reconstructing spatial information diffusion networks with heterogeneous agents and text contents. *Transactions in GIS*. doi: 10.1111/tgis.12747
- Yu, S., Malecha, M., & Berke, P. (2021). Examining factors influencing plan integration for community resilience in six US coastal cities using Hierarchical Linear Modeling. *Landscape and Urban Planning*, 215, 104224.
- Yu, S., Brand, A.D., Berke, P. (2020). Making Room for the River: Applying a Plan Integration for Resilience Scorecard to a Network of Plans in Nijmegen, Netherlands. *Journal of the American Planning Association*. 86(4), 417-430.



### **Funded Research Projects (Selected)**

- "Synchronizing Decision-Support via Human- and Social-centered Digital Twin Infrastructures for Coastal Communities." (2021-2023), National Science Foundation Eager Program, PI: Ye, X and Co PIs Newman, G., Ham, Y., Retchless, D., & Zou, L.
- "Focused CoPe: Fundamental research to inform holistic decision-making for historically underrepresented communities impacted by coastal hazards" (2021-2026), National Science Foundation (NSF). PI: Maria Koliou, Co-PI: Yu S.
- "Planning for Extreme Heat: Applying a Plan Integration for Resilience Scorecard to Evaluate Urban Heat Vulnerability in Tokyo, Japan" (2021-2024), Global Engagement Grants Program, PI: Yu S.
- "Transference Vulnerability: Linking Social, Health and Built Environment Data with COVID-19 Exposure." (2021-2023), Texas A&M University Transformation T3-Round 4 Grant. PI: Yu S.
- "Studying Anti-Social Behavior in Social Media" (2020-2025), SSHRC (Social Sciences and Humanities Research Council) Insight Grants, Canada, PI: Anatoliy Gruz, co-PI: Xinyue Ye
- "Using Sentiment Analysis and Topic Modeling in Assessing the Impact of Police Signaling on Investigative and Prosecutorial Outcomes in Sexual Assault Reports", (2019-2021), National Institute of Justice, Institutional PI: Xinyue Ye
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### **Housing and Community Development**

As human populations continue to grow and urban settlements shift geographically, community development and adequate housing needs to be enhanced. This emphasis area focuses on urban and regional planning and design, community and neighborhood physical and economic development, fair and equitable housing, infrastructure development and management, historic conservation, and land development. Students in this area often work closely with the Center for Housing and Urban Development. (Chaired by George Rogers).

### **Publications (Selected)**

- Ellingwood, B.R., H. Cutter, P. Gardoni, W.G. Peacock, J.W. van de Lindt, and N. Yang. (2016). The Centerville Virtual Community: a Fully integrated decision model of interacting physical and social infrastructure systems. *Sustainable and Resilient Infrastructure*, 1(3-4): 95-107.
- Gibson, J., Hendricks, M. D., & Wells, J. (2018). From Engagement to Empowerment: How Heritage Professionals Can Incorporate Participatory Methods in Disaster Recovery to Better Serve Socially Vulnerable Groups. *International Journal of Heritage Studies*, 1-15.
- Hamideh, S., Peacock, W.G., Van Zandt, S. (2021). Housing Type Matters for Pace of Recovery: Evidence from Hurricane Ike. *International Journal of Disaster Risk Reduction*. 57.
- Kim, G. & Newman, G. (2020, in-press). "Urban regeneration: Community engagement process for vacant land in declining cities." *Cities*, 102: 102730.
- Kim, J. M., Park, Y. J., Son, K., & Kim, Y. J. (2018). Public Housing Lifecycle Cost Analysis for Optimal Insulation Standards in South Korea. *Energy and Buildings*, 161, 55-62.
- Liu, Q., Liu, M., & Ye, X\*. (2021) An extended spatiotemporal exposure index for urban racial segregation. *Cartography and Geographic Information Science*. doi: 10.1080/15230406.2021.1965915
- Lopez J., Kim, G., Lei, Y., Newman, G., & Suppakitpaisarn, P. (2021, in-press). "An assessment method and typology for the regeneration of vacant land in Quito, Ecuador." *Urban Forestry and Urban Greening*. 62: 127130
- Meyer, M. & Hendricks, M. D. (2018). Using Photography to Assess Housing Damage and Rebuilding Progress for Disaster Recovery Planning. *Journal of the American Planning Association*, 84:2, 127-144.
- Minner, J, Roberts, A., Holleran, M., & Conrad, J. (2018). "A Smart City Remembers Its Past: Citizens as Sensors in Survey and Mapping of Historic Places." In *New Approaches, Methods, and Tools in Urban E-Planning* (pp. 95-129). IGI Global
- Newman G., Gu, D.W., Lee, R.J., Park, Y.M, Saginor, J. Van Zandt, S., & Li, W. (2019). 'Evaluating Drivers of Housing Vacancy: A Longitudinal Analysis of Large U.S. Cities from 1940-2010.' *Journal of Housing and the Built Environment*. 34(3), 807-827.
- Newman, G., Hollander, J., Lee., J., Gu, D., Kim, B., & Lee, R.J., Horney, J., Bearfield, D., Li, Y. (2018). Smarter Shrinkage: A Neighborhood-scaled Right Sizing Strategy based on Land Use Dynamics. *Journal of Geovisualization and Spatial Studies* 2(11).
- Newman, G., Lee, R.J., Qu, A. & Pu, C. (2021). "Design for the Depopulating Landscape: A Retrofit Approach to Urban Regeneration in Johnstown, PA, USA." *Landscape Architecture Frontiers*, 8(6):106-119
- Newman, G., Meyer, M., Kim, B., & Lee, R. (2018). Gauging the Relationship between Contextual Growth and Structural Neglect. *Journal of Contemporary Urban Affairs*, 2(2), 33-45.
- Newman G., Park, Y.M., Bowman, A. O'M, and Lee, R.J. (2017). Vacant Urban Areas: Causes and Interconnected Factors. *Cities*, 72, 421-429.
- Peacock, W.G., N. Dash, Y. Zhang, and S. Van Zandt. (2018). Post-Disaster Sheltering, Temporary Housing, and Permanent Housing Recovery. Pp. 569-594 in



*Handbook of Disaster Research 2nd edition*, edited by H. Rodriguez, J. Trainor, and W. Donner. New York: Springer.

- Peters, D., Hamideh, S., Zarecor, M., and Ghandour. (2018). A Typology of Shrinkage and Growth: understanding change in population and quality of life in Iowa small towns. *Journal of Rural Studies*, Vol. 64, Pages 39-49.
- Roberts, A., & Matos, M. (2020). Adaptive liminality: Bridging and bonding social capital between urban and rural Black meccas. *Journal of Urban Affairs*, 1-22.
- Roberts, A., & Kelly, G. (2019). Remixing as Praxis: Arnstein's Ladder Through the Grassroots Preservationist's Lens. *Journal of the American Planning Association*, 85(3), 301-320.
- Roberts, A. R. (2018). "Performance as Place Preservation: The Role of Storytelling in The Formation Of Shankleville Community's Black Counterpublics" *Journal of Community Archaeology & Heritage*, 5(3), 146-165
- Roberts, A. (2020). "The End of Bootstraps and Good Masters: Fostering Social Inclusion through Counternarrative Creation," *Preservation and Social Inclusion*. Issues in Public Policy Series. United States: Columbia University, Graduate School of Architecture
- Rosenheim, N., R. Guidotti, P. Gardoni, and WG Peacock. (2019). Integration of Detailed Housing Unit Characteristic Data with Critical Infrastructure and Its Implementation to Post-Hazard Resilience Modeling. *Sustainable and Resilient Infrastructure*, 1-17
- Won, J., Lee, J. (2018). Investigating How the Rents of Small Urban Houses are Determined: Using the Spatial Hedonic Modeling for the Urban Residential Housing in Seoul. *Sustainability*, 10 (1), 31.
- Ye, X., Du, J., & Ye, Y. (2021). MasterplanGAN: Facilitating the smart rendering of urban master plans via generative adversarial networks. *Environment and Planning B: Urban Analytics and City Science*, doi: 10.1177/23998083211023516
- Ye, X., Duan, L., & Peng, Q. (2021) Spatiotemporal Prediction of Theft Risk with Deep Inception-Residual Networks. *Smart Cities*. doi: 10.3390/smartcities4010013

### **Funded Research Projects (Selected)**

- "CRISP Type 2/Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities." (2016-2022), The National Science Foundation, PI: Nathanael Rosenheim, cO-PIs: Walter Gillis Peacock, Daniel Goldberg and John Patrick Casellas Connors.
- "The Impact of Land Banking Program on Urban Vacancy and Community Regeneration in the US." (2020-2021), Korea-U.S. International Cooperation Program on Humanities supported by the National Research Foundation of Korea, Co-PI's: Park, Y & Newman, G.
- "NIST Center for Risk-Based Community Resilience Planning." (2020-2025). Colorado State University and National Institute of Standards and Technology, PI: Shannon Van Zandt; Co-PIs: Walter Gillis Peacock, Nathanael Rosenheim, Michelle Meyer, and Maria Koliou
- "NIST Center for Risk-Based Community Resilience Planning." (2015-2020), Colorado State University from the National Institute of Standards and Technology, PI: Walter Gillis Peacock, co-PIs: S. Van Zandt, Yu Xiao, and Nathanael Rosenheim, co-team members a TAMU, John van de Lindt (CSU) and Bruce Ellingwood (CSU) directors.

- "REU Site: Studies in Social Inequality and Social Vulnerability." (2014-2017), The National Science Foundation, PI: Mark Fossett, co-PI: Walter Gillis Peacock.
- "The Gulf Coast Heritage Preparedness Initiative," (2021-2023), Texas A&M University, PI: Andrea Roberts
- "The Texas Freedom Colonies Project: Spring-Summer Field School" (2021-2022), Dumbarton Oaks, Washington, DC, PI: Andrea Roberts
- "The Aggie - Panther Plan-Design-Build Teaching Collaborative with Prairie View A&M University to develop a pilot "plan-preserve-build" design justice collaborative" (2020-2022), Texas A&M University, co-PIs: Roberts A, Jourdan, D., Roberts, A., Tate, J.
- "TX Freedom Colonies Project's Plan to Preserve Endangered Historic Black Settlements & Cemeteries," National Trust for Historic Preservation: African American Cultural Heritage Action Fund, (2019-2021), PI: Andrea Roberts
- "Understanding the Impact of Expansion of Health Insurance Coverage in Texas on Financial Well-being", (2021-2023), TAMU X-Grant, PI: Benjamin Ukert, Co-PIs: Benjamin Klopach, Korok Ray, Xinyue Ye

### Health and Well-being

As global climate change and urbanization continue, designers and planners should be engaged in creating communities that improve the health and well-being of residents. This emphasis area addresses how the places we live, work, play, and learn influence our health and well-being. Students interested in the interaction between place and health will have opportunities to participate in research groups such as Design Research for Active Living and Microclimatic Design Research Group. Students in this emphasis work closely with the Center for Health Systems & Design. (Chaired by Chanam Lee).

### Publications (Selected)

- Gong, X. & Ye, X. (2021) Governors Fighting Crisis: Responses to the COVID-19 Pandemic across U.S. States on Twitter. *The Professional Geographer*. doi: 10.1080/00330124.2021.1895850
- Huang, X., Li, Z., Jiang, Y., Ye, X., Deng, C., Zhang, J., & Li, X. (2021) The characteristics of multi-source mobility datasets and how they reveal the luxury nature of social distancing in the U.S. during the COVID-19 pandemic. *International Journal of Digital Earth*. doi: 10.1080/17538947.2021.1886358
- Jiang, B., Wang, H., Larsen, L., Bao, F., Li, Z., & Pryor, M. (2019). Quality of sweatshop factory outdoor environments matters for workers' stress and anxiety: A participatory smartphone-photography survey. *Journal of Environmental Psychology*, 65, 101336.
- Kim, Y. J., Lee, C., & Kim, J. H. (2018). Sidewalk Landscape Structure and Thermal Conditions for Child and Adult Pedestrians. *International Journal of Environmental Research and Public Health*, 15(1), 148.
- Lee, S., Lee, C., Nam, J. W., Abbey-Lambertz, M., & Mendoza, J. A. (2020). School walkability index: Application of environmental audit tool and GIS. *Journal of Transport & Health*, 18, 100880.
- Lee, S., Lee, C., and Ory, M.G. (2019) Changes in Neighborhood Environments and Recent Fall Status among Community-Dwelling Older Adults. *International Journal of Environmental Research and Public Health*. 16(18), 3230.

- Lee, S., Lee, C., & Rodiek, S. (2019). Outdoor exposure and perceived outdoor environments correlated to fear of outdoor falling among assisted living residents. *Aging & Mental Health*, 1-9.
- Salahuddin, M., Nehme, E., Ranjit, N., Kim, Y. J., Oluyomi, A. O., Dowdy, D., ... & Hoelscher, D. M. (2016). Does Parents' Social Cohesion Influence Their Perception of Neighborhood Safety and Their Children's Active Commuting to and From School? *Journal of Physical Activity and Health*, 13(12), 1301-1309.
- Wang, H., & Tassinari, L. G. (2019). Effects of greenspace morphology on mortality at the neighbourhood level: a cross-sectional ecological study. *The Lancet Planetary Health*, 3(11), e460-e468.
- Won, J., Lee, C., & Li, W. (2018). Are Walkable Neighborhoods More Resilient to the Foreclosure Spillover Effects? *Journal of Planning Education and Research*, 38(4), 463-476.
- Ye, X., Du, J., Gong, X., Na, S., Li, W., & Kudva, S. (2021) Geospatial and Semantic Mapping Platform for Massive COVID-19 Scientific Publication Search. *Journal of Geovisualization and Spatial Analysis*. doi: 10.1007/s41651-021-00073-y
- Yoon, J., & Lee, C. (2019). Demands for Walkable Neighborhoods among Middle-aged and Older Adults: Do They Differ by Community Settings and Age Groups?. *Housing Policy Debate*, 29(6), 899-930.
- Yoon, J., & Lee, C. (2019). Neighborhood outdoor play of White and Non-White Hispanic children: Cultural differences and environmental disparities. *Landscape and urban planning*, 187, 11-22.
- Zhong, S., Lee, C., Foster, M., & Bian, J. (2020). Intergenerational Communities: A Systematic Literature Review of Intergenerational Interactions and Older Adults' Health-Related Outcomes. *Social Science & Medicine*, 113374.
- Zhang, X., Zhang, Z., Wang, W., Hou, D., Xu, J., Ye, X.\*, & Li, S. (2021) Multiplex network reconstruction for the coupled spatial diffusion of infodemic and epidemic of COVID-19. *International Journal of Digital Earth*. doi: 10.1080/17538947.2021.1888326
- Zhu, D., Ye, X. & Manson, S. (2021) Revealing the spatial shifting pattern of COVID-19 pandemic in the United States. *Nature: Scientific Reports*. doi: 10.1038/s41598-021-87902-8
- Zietsman, J.; Ramani, T. (2018). "Advancing health Considerations within a Sustainable Transportation Agenda: Using Indicators and Decision-Making" In M. Nieuwenhuijsen and H. Khreis (Ed.), *Integrating Human health into Urban and Transport Planning* (pp. 287-305). Cham, Switzerland: Springer 2018

### **Funded Research Projects (Selected)**

- "A5: The Augmented Atlas for (VR and AR Enhanced) Architecture and Landscape Architecture Abroad." (2019-2022); Texas A&M 2019 Global Engagement Grants, PI: Dongying Li (PI); Co-PIs: Galen Newman, Amir Behzadan, Shinjiro Sueda, Ture Petersenn
- "Fighting Obesity by Reinventing Public Transportation: A Natural Experiment." (2018 – 2023), National Institute of Health, multi-PI: Chanam Lee, Wei Li, Marcia Ory
- "Physical Activity Impacts of a Planned Activity-Friendly Community: The What, Where, When and Why of Environmental Approaches to Obesity Prevention"



(2015 – 2020), National Institute of Health, multi-PI: Chanam Lee, Xuemei Zhu, Marcia Ory

- “Apply Natural Language Processing and Deep Learning to EMR Management, Preprocessing and Decision Making”, (2019-2020), National Institute of Health through New Jersey Alliance for Clinical and Translational Science, PI: Dantong Yu, Co-PI: Xinyue Ye
- “Building Equitable Safe Streets for All: Data-Driven Approach and Computational Tools” (2021-2023), USDOT National University Transportation Center, PI: Bahar Dadashova, co-PI: Xinyue Ye

## **Transportation**

Transportation comprises one of the largest segments of urban and regional infrastructure. This emphasis area focuses on understanding the transportation policies and processes of the cities and regions of today, while providing opportunities for students to conduct cutting-edge research about the cities and regions of the future. Particular strengths of the transportation emphasis area are multimodal transportation, equity and justice in transportation planning, autonomous vehicles, smart cities, travel behavior, and safety. In addition to opportunities with department faculty, students work or collaborate with researchers at the Texas A&M Transportation Institute, the largest research institution of its kind in the U.S. (Chaired by Xinyue Ye).

## **Publications (Selected)**

- Bian, J., Li, W., Zhong, S., Lee, C., Foster, M., & Ye, X. (2021) The End-User Benefits of Smartphone Transit Apps: A Systematic Literature Review. *Transport Reviews*. doi: 10.1080/01441647.2021.1950864
- Gao, J., Yue, W., Ye, X., & Li, D. (2019). Identification of potential over-supply zones of urban shopping malls: Integration of crowdsourced data and weighted voronoi diagram. *Journal of Urban Technology*, 26(3), 65-79.
- Gong, J., Li, S., Ye, X., Peng, Q., & Kudva, S. (2021). Modelling impacts of high-speed rail on urban interaction with social media in China mainland. *Geo-spatial Information Science*. doi: 10.1080/10095020.2021.1972771
- Hwang, J., Li W, Stough L, Lee C and Turnbull K (2020). A Focus Group Study on the Potential of Autonomous Vehicles as a Viable Transportation Option: Perspectives from People with Disabilities and Public Transit Agencies. *Transportation Research Part F: Psychology and Behaviour*, 70: 260-274.
- Jamonnak, S., Zhao, Y., Curtis, A., Al-Dohuki, S., Ye, X., Kamw, F., & Yang, J. (2020). Geovisuals: A visual analytics approach to leverage the potential of spatial videos and associated geonarratives. *International Journal of Geographical Information Science*, 34(11), 2115-2135.
- Kuzio, J. (2019). Planning for social equity and emerging technologies. *Transportation research record*, 2673(11), 693-703.
- Lee, HK., and Kim, HY. (2017). A Crossing-Line between Transportation Evaluation and Natural Capital Assessment: Perspectives on Ecological Economics and Project Evaluation. *The Open Transportation Journal*, 11, 44-52.
- Li, Z., Huang, X., Ye, X., Jiang, Y., Martín, Y., Ning, H., Hodgson, M., & Li, X.. (2021) Measuring Global Multi-Scale Place Connectivity using Geotagged Social Media Data. *Nature: Scientific Reports*. 11, 14694 (2021). doi: 10.1038/s41598-021-94300-7

- Liu, Q., Wang, Z., & Ye, X. (2018). Comparing mobility patterns between residents and visitors using geo-tagged social media data. *Transactions in GIS*, 22(6), 1372-1389.
- Ning, H., Ye, X., Chen, Z., Liu, T., & Cao, T. (2021) Sidewalk Extraction Using Aerial and Street View Images. *Environment and Planning B*. doi: 10.1177/2399808321995817
- Tian, M., Li, T., Ye, X., Zhao, H., & Meng, X. (2021) The Impact of High-speed Rail on Service Industry Agglomeration in Peripheral Cities. *Transportation Research Part D*. doi: 10.1016/j.trd.2021.102745
- Yue, W., Wang, T., Liu, Y., Zhang, Q., & Ye, X. (2019). Mismatch of morphological and functional polycentricity in Chinese cities: An evidence from land development and functional linkage. *Land Use Policy*, 88, 104176.
- Ramani, T. L., & Zietsman, J. (2016). Sustainable transportation - alternative perspectives and enduring challenges. *International Journal of Urban Sciences*, 20(3), 318-333.
- Wang, T., Yue, W., Ye, X., Liu, Y., & Lu, D. (2020). Re-evaluating polycentric urban structure: A functional linkage perspective. *Cities*, 101, 102672.
- Wang, W., Li, Y., Wang, S., and Ye, X. (2021). QA4GIS: A Novel Approach Learning to Answer GIS Developer Questions with API Documentation. *Transactions in GIS*. doi: 10.1111/tgis.12798
- Xiao, Y., Zhong, H., Zhou, T., & Zhou, Y. (2018). Rail transit development in lagging regions: A development-oriented investment and financing approach. *Journal of Transport and Land Use*, 11(1).
- Ye, X., Du, J., Gong, X., Zhao, Y., Shamal, A. D., & Kamw, F. (2021). SparseTrajAnalytics: an Interactive Visual Analytics System for Sparse Trajectory Data. *Journal of Geovisualization and Spatial Analysis*, 5(1), 1-11.
- Zhen, F., Qin, X., Ye, X., Sun, H., & Luosang, Z. (2019) Analyzing urban development patterns based on the flow analysis method. *Cities*, 86: 178-197.
- Zhong, H., Li, W., Burris, M. W., Talebpour, A., & Sinha, K. C. (2020). Will autonomous vehicles change auto commuters' value of travel time?. *Transportation Research Part D: Transport and Environment*, 83, 102303.

#### **Funded Research Projects (Selected)**

- "SI2-SSE: GeoVisuals Software: Capturing, Managing, and Utilizing GeoSpatial Multimedia Data for Collaborative Field Research." (2017 – 2021), National Science Foundation, Institutional PI: Xinyue Ye
- "Fighting Obesity by Reinventing Public Transportation: A Natural Experiment." (2018 – 2023), National Institute of Health, multi-PI: Chanam Lee, Wei Li, Marcia Ory
- "SI2-SSE: Collaborative Research: TrajAnalytics: A Cloud-based Visual Analytics Software System to Advance Transportation Studies Using Emerging Urban Trajectory Data." (2015 – 2019), National Science Foundation, Institutional PI: Xinyue Ye
- "IBSS: Spatiotemporal Modeling of Human Dynamics across Social Media and Social Networks." (2014 – 2020), National Science Foundation, Institutional PI: Xinyue Ye

- "ENDEAVR: Envisioning the Neo-traditional Development by Embracing the Autonomous Vehicles Realm" (2018 – 2021), W.M. KECK Foundation, PI: Wei Li; Co-PI: Chanam Lee
- "Transportation Data Analytical Tools - Phase II (Creation of Sidewalk Inventory of the NJTPA Region from Color Infrared Orthoimagery or Google Street View Data)", (2019-2020), USDOT/North Jersey Transportation Planning Authority, PI: Xinyue Ye
- "Category II: ACES - Accelerating Computing for Emerging Sciences" (2021-2026), National Science Foundation, PI: Honggao Liu, co-PI: Xinyue Ye
- "IUCRC: Center for Big (Data Deep) Learning", (2018-2023), National Science Foundation, PI: Dejing Dou, co-I: Xinyue Ye





# FACULTY

## FACULTY EMPHASIS AREAS

Landscape architecture and urban planning scholars often lead their respective fields nationally and internationally. These scholars provide the foundation for endeavors in the URSC program. They have ongoing research programs in fields related to environmental hazards, sustainability, housing and community development, health and wellbeing and transportation.

### Core Faculty

Last name	First name	Environment Hazards	Sustainability	Housing & Community Development	Health & Well-being	Transport
Brown	Robert	✓			✓	
Giusti	Cecilia	✓		✓		
Goddard	Tara		✓			✓
Huang	Chang Shan			✓	✓	
Lee	Chanam				✓	✓
Lee	Sungmin	✓			✓	✓
Li	Dongying		✓		✓	
Li	Wei		✓		✓	✓
Meyer	Michelle	✓	✓	✓		
Ndubisi	Forster	✓	✓		✓	
Newman	Galen	✓		✓		
Peacock	Walter	✓	✓	✓		
Rising	Hope Hui	✓	✓		✓	✓
Roberts	Andrea			✓		
Rogers	George	✓	✓	✓	✓	
Rumbach	Andrew	✓	✓	✓		
Song	Yang			✓	✓	
Van Zandt	Shannon	✓	✓	✓		
Winslow	Jane		✓		✓	
Ye	Xinyue	✓			✓	✓
Yu	Siyu	✓	✓			

## Affiliate Faculty

Last name	First name	Environment Hazards	Sustainability	Housing & Community Development	Health & Well-being	Transport
Cooper	John	✓	✓	✓		
Dvorak	Bruce		✓			
Ellis	David					✓
Golbabai	Justin			✓		
Highfield*	Wesley	✓				
Hurst	Kenneth				✓	
Lomax	Tim					✓
Rosenheim	Nathanael	✓				
Turnbull	Katie					✓
Winslow	Chip		✓			
Wunneburger	Douglas	✓				✓

Note: \* indicates the faculty members who are based at the Texas A&M Galveston Campus.

## FACULTY ELEGIBILITY FOR COMMITTEE

Doctoral students may work with any member of the department's graduate faculty, which include all tenure-track and tenured faculty, as well as a few non tenure-track faculty who have petitioned and been added to the graduate faculty. It is the policy of the program that only tenured/tenure-track faculty members holding a Ph.D. can chair doctoral committees. These faculty are considered "core" faculty. The URSC also draws on resources other than core faculty. All tenure-track and professional-track faculty in the department, as well as affiliate faculty who are members of graduate faculty, may serve on, but not chair, doctoral committees as either internal, or in some cases, external members (if they have primary appointments in other departments).

## FACULTY AFFILIATIONS, EDUCATION AND INTERESTS



### **Dr. Robert D. Brown**

Department of Landscape Architecture & Urban Planning  
Microclimatic-Design Research Group

<https://research.arch.tamu.edu/microclimatic-design/>

Center for Health Systems and Design <https://chsd.arch.tamu.edu/>

PhD, Micrometeorology, University of Guelph, 1985; MLA, Landscape Architecture, University of Guelph, 1982; BSc, Geography, University of Saskatchewan, 1979

*Interests:* Dr. Brown studies how the urban landscape modifies the microclimate, and how microclimates affect the health and well-being of people.

Google scholar link: <https://goo.gl/r92Hd>



### **Dr. John Thomas Cooper**

Texas Target Communities <https://ttc.arch.tamu.edu/>

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>

Center for Housing and Urban Development

<http://chud.arch.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. City & Regional Planning, University of North Carolina - Chapel Hill, 2004; M.U.P. Texas A&M University, 1994; B.A. Economics, Texas A&M University, 1992

*Interests:* Dr. Cooper's areas of interest includes principles of inclusive planning and plan quality. He has a deep commitment to working with planners to transform communities from high risk and low opportunity to equitable, resilient, and adaptive by mitigating the threats to the economy, environment, and culture.



### **Bruce Dvorak**

PI, Interdisciplinary Green Roof Research Group

<http://people.tamu.edu/~bdvorak/>

Department of Landscape Architecture & Urban Planning

M.L.A., University of Illinois, 1994; B.L.A., University of Minnesota, 1988

*Interests:* Professor Bruce Dvorak teaches graduate and undergraduate courses in Landscape Architecture. His areas of interest include sustainable design, planning, and construction. His areas of research include green roof and wall technology.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=h3jUS-EAAAAJ>



**Dr. David Ellis**

Texas A&M Transportation Institute

<https://tti.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. Urban & Regional Sciences, Texas A&M University, 1995; Master of Urban Planning, Texas A&M University; B.S. Agricultural Economics, Texas A&M University, 1979

*Interests:* Dr. Ellis is interested in transportation finance and economics, economic development, impact assessment, demographics, and tax policies.



**Dr. Cecilia Giusti**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. University of Texas at Austin, 2001; M.A. Regional Development and Planning, Institute of Social Studies, Holland; Bachelor and professional degrees in economics, Catholic University, Lima, Peru

*Interests:* Dr. Giusti is interested in economic development and planning, community engagement, "informal" practices, microbusinesses, diversity and inclusion, and Latinx and Latin American urban issues.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=4cbGdAoAAAAJ>



**Dr. Tara Goddard**

Texas Target Communities <https://ttc.arch.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. Portland State University, Urban Studies 2017; M.S. University of California, Davis, Civil Engineering 2005; B.S. University of California, Santa Barbara, Mechanical Engineering 2002

*Interests:* Dr. Goddard is interested in vulnerable road user safety, partial and, or conditional autonomous technology and driver behavior, driver cognition and attention, transportation planning; traffic safety and crash reduction, and design for sustainable transportation.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=McofhAwAAAAJ>





**Prof. Justin Golbabai**

Texas Target Communities <https://ttc.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning

MPA. Public Administration, University of Kansas, 2006; B.A. Economics & Sociology, University of Notre Dame, 2004

*Interests:* Prof. Golbabai is interested in how urban design can bring people together and build community, people-oriented local economic development, placemaking, sustainability, urban agriculture, and the implementation processes that make plans happen.



**Dr. Wesley Highfield**

Department of Marine Sciences, TAMUG

Ph.D. Urban and Regional Sciences, Texas A&M University, 2008;  
M.S. Urban Planning, Texas A&M University, 2004;  
B.S. Renewable Natural Resources, Texas A&M University, 2001

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=9HoOfeQAAAAJ>



**Dr. Chang-Shan Huang**

Department of Landscape Architecture & Urban Planning  
Center for Health Systems & Design <https://chsd.arch.tamu.edu/>

Ph.D. City and Regional Planning, University of Pennsylvania, 1995;  
M.F.A., University of Pennsylvania, 1995; M.L.A., The Pennsylvania State University, 1992; B.Arch., Tsinghua University, 1983

*Interests:* Dr. Huang's areas of interest lie in design programming and methodology, urban and community design, therapeutic garden design, design communication, and interdisciplinary design education. He is a member of the American Institute of Certified Planners and a registered Landscape Architect in the State of Texas.



**Dr. Chanam Lee**

Department of Landscape Architecture & Urban Planning  
Center for Health Systems & Design <https://chsd.arch.tamu.edu/>

Ph.D. Urban Design and Planning, University of Washington, 2004;  
M.L.A., Texas A&M University, 1999; B.A. Kyungpook National University,  
1996

*Interests:* Dr. Lee's areas of interest are active living research and  
healthy community design.

Personal Website:

<http://research.arch.tamu.edu/activeliving/>

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=B-H2Wq0AAAAJ>



**Dr. Sungmin Lee**

Department of Landscape Architecture & Urban Planning

Ph.D. in Urban and Regional Science, Texas A&M University, 2018; MLA  
in Landscape Architecture, Seoul National University, South Korea,  
2009; B.S. Landscape Architecture and Rural Systems Engineering,  
Seoul National University, South Korea

*Interests:* Dr. Lee's interest areas include healthy community planning  
and design, neighborhood safety, active aging and spatial analysis.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=Mq-u-9MAAAAJ>



**Dr. Dongying Li**

Department of Landscape Architecture & Urban Planning  
Center for Health Systems & Design <https://chsd.arch.tamu.edu/>

Ph.D. in Landscape Architecture, University of Illinois at Urbana-  
Champaign, 2016; MLA, Tongji University, China, 2011; BLA, Tongji  
University, China, 2008

*Interests:* Dr. Li's research examines the relationship between the  
characteristics of the physical environment and people's mental  
health. Specific topics include urban nature and children's health,  
individuals' activity space, access to salutary environmental factors,  
and health equity.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=ccTwEaMAAAAJ>



**Dr. Wei Li**

Department of Landscape Architecture & Urban Planning

Ph.D. Planning, Policy and Design, University of California, Irvine; M.A. Planning, University of Waterloo; B.A. Business Administration, Renmin University of China

*Interests:* Dr. Li's interest areas include sustainable and active transportation, environmental economics, and socio-economic and health impacts of emerging transportation technologies (e.g., autonomous vehicles).

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=-1mV8HcAAAAJ>



**Dr. Tim Lomax**

Research Fellow for Texas A&M Transportation Institute

<https://tti.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. Civil Engineering, 1987; M.E. Civil Engineering, 1982; B.S. Civil Engineering, 1979

*Interests:* Dr. Lomax's scholarly interest involves transportation planning, and performance measurement.



**Dr. Michelle Meyer**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>

Department of Landscape Architecture & Urban Planning

PhD, Sociology, Colorado State University, 2013; MA, Sociology, Colorado State University, 2010; BA, Sociology, Murray State University, 2003

*Interests:* Dr. Meyer's interests include environmental sociology, sociology of disasters, social stratification, community Sociology, green energy and sustainability, and environmental migration.

Google scholar link:

[https://scholar.google.com/citations?hl=en&user=tvPBT\\_MAAAAJ](https://scholar.google.com/citations?hl=en&user=tvPBT_MAAAAJ)



**Dr. Forster Ndubisi**

Department of Landscape Architecture & Urban Planning  
Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>

PhD. Regional Planning & Resource Development, University of Waterloo, 1987; MLA, University of Guelph, 1982; BS. Zoology/Ecology, University of Ibadan, 1977

*Interests:* Dr. Ndubisi specializes in ecological design and planning, community design, growth management, and interdisciplinary design education.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=MKhLuNsAAAAJ>



**Dr. Galen Newman**

Department of Landscape Architecture & Urban Planning  
Center for Housing and Urban Development  
<http://chud.arch.tamu.edu/>

Ph.D. of Planning, Design, and the Built Environment, Clemson University, 2010; M.S. Community Planning, Auburn University, 2006; M.S. Landscape Architecture, Auburn University, 2006; B.S. Environmental Design, Auburn University, 2003

*Interests:* Dr. Newman's interests include urban regeneration, land use science, spatial analytics, flood resilience, and community/urban scaled design.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=NWRrbEoAAAAJ>



**Dr. Walter Peacock**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning  
Texas Target Communities <https://ttc.arch.tamu.edu/>

Ph.D. Sociology, University of Georgia, 1986; M.A. Sociology, University of Georgia, 1982; B.A. Sociology, Columbus State University, 1978

*Interests:* Dr. Peacock is interested in urban planning, sustainability and resiliency issues, natural hazard, hazard mitigation and adaptation, long-term disaster recovery, and quantitative methods.

Google scholar link:

<https://scholar.google.com/citations?user=5Jjuc0gAAAAJ&hl=en>





**Dr. Hope Hui Rising**

Department of Landscape Architecture & Urban Planning  
Adaptive Water Urbanism Initiative <https://waterurbanism.net/>

Ph.D. Landscape Architecture, University of Oregon, 2015; M.L.A. Landscape Architecture & M.U.P. Urban and Regional Planning, University of Michigan, 2000; B.S. Civil Engineering, National Taiwan University, 1996

*Interests:* Dr. Rising's interests include water-centric urban design, spatial cognition, place attachment, environmental adaptation, climate adaptation, flood and drought adaptation, and environmental stewardship.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=3CmuDXMAAAAJ>



**Dr. Andrea Roberts**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>  
Center for Housing and Urban Development  
<http://chud.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning

Ph.D. Community & Regional Planning, African & African Diaspora Studies, The University of Texas at Austin, 2016; M.A. Government Administration, Public Finance, University of Pennsylvania, 2006; B.A. Political Science Vassar College, 1996

*Interests:* Dr. Roberts's interest areas include community development and revitalization, heritage conservation, community resilience, vernacular & cultural landscapes, preservation policy, grassroots and insurgent Planning, participatory planning, action research, ethnographic Research, planning history & theory, public finance.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=arxHS-YAAAAJ>



**Dr. Nathanael Rosenheim**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning

Ph.D., Urban and Regional Science, Texas A&M University, 2015; MUP, Urban Planning, Texas A&M University, 2009; BS, Electrical Engineering, Texas A&M University, 2000

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=FVX6818AAAAJ>



**Dr. Andrew Rumbach**

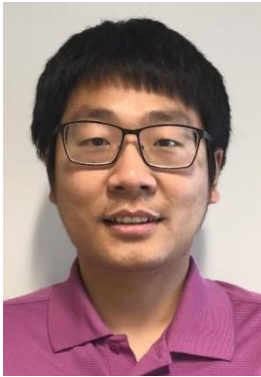
Department of Landscape Architecture & Urban Planning

Ph.D., City and Regional Planning, Cornell University, 2011; Master of Regional Planning, Cornell University, 2011; BA, Political Science, 2002

*Interests:* Dr. Rumbach's research centers on household and community risk, recovery and resilience to environmental hazards and disasters, examining the intersection of human development and extreme weather events and the political-economic context for disaster risk creation and reduction.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=59NDPsMAAAAJ>



**Dr. Yang Song**

Department of Landscape Architecture & Urban Planning

Ph.D in Environmental Design and Planning, Clemson University; Master of Landscape Architecture, Clemson University; BS in Landscape Gardening, Beijing Forestry University, China

*Interests:* Dr. Song's research focuses on the intersection between placemaking, community planning, and urban design, using the human-centered approach such as social media to understand build environments and urban issues.



**Dr. Katherine Turnbull**

Texas Transportation Institute <https://tti.tamu.edu/>

Department of Landscape Architecture & Urban Planning

Ph.D. Urban and Regional Science, Texas A&M University, 1993; M.S. Urban Studies, University of Wisconsin at Milwaukee, 1976; B.S. Political Science and History, University of Minnesota at Duluth, 1975

*Interests:* Dr. Turnbull's interests include transportation planning, public transportation, high-occupancy vehicle (HOV) facilities, and transportation policy.



**Dr. Shannon Van Zandt**

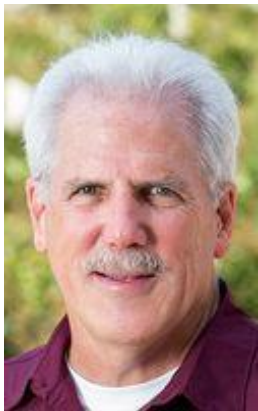
Texas Target Communities <https://ttc.arch.tamu.edu/>  
Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning  
Center for Housing and Urban Development  
<http://chud.arch.tamu.edu/>

Ph.D., City & Regional Planning, University of North Carolina at Chapel Hill, 2004; Master of Urban Planning, Texas A&M University, 1997; Bachelor of Environmental Design, Texas A&M University, 1993

*Interests:* Dr. Van Zandt's research addresses equity issues related to the spatial distribution of housing opportunities for low-income and minority populations.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=hILMtUQAAAAJ>



**William P. "Chip" Winslow III**

Department of Landscape Architecture & Urban Planning

MLA, University of Michigan, 1982; BLA, Kansas State University, 1980

*Interests:* Professor Winslow's interest involves the pedagogy of teaching design implementation and planting design courses. Current research involves digital tree inventory methods, particularly adapted to document the spread of the Emerald Ash Borer, and the use of remote sensing techniques to detect tree species and diseased trees.



**Dr. Jane Winslow**

Department of Landscape Architecture & Urban Planning  
Center for Health Systems & Design <https://chsd.arch.tamu.edu/>

Ph.D., Community and Regional Planning, The University of Texas at Austin, 2015; M.L.A., Landscape Architecture, Kansas State University, 2010; B.S., Landscape Architecture, University of Kentucky, 1978

*Interests:* Dr. Winslow's research lies at the intersection of green infrastructure and human health, with a concentration in multifunctional landscape areas.



**Dr. Douglas Wunneburger**

Department of Landscape Architecture & Urban Planning

Ph.D., Remote Sensing/GIS, Texas A&M University, 1992; M.F. Forestry, Stephen F. Austin State University, 1981; B.A. Economics, University of Texas, 1977

*Interests:* Dr. Wunneburger's primary research interests include studies of social impacts due to interactions of demographics and spatially explicit policies and laws.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=SutkLecAAAAJ>



**Dr. Xinyue Ye**

Department of Landscape Architecture & Urban Planning

Ph.D., Geography, University of California at Santa Barbara and San Diego State University, 2010; M.S., Geographic Information Systems, Eastern Michigan University, 2004; M.A., Geography, University of Wisconsin at Milwaukee, 2002

*Interests:* Dr. Ye's interest areas include big data analytics, geographic information science, geospatial artificial intelligence, network science, spatial econometrics, urban simulation, visual analytics.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=Uy76pMcAAAAJ>



**Dr. Siyu Yu**

Hazard Reduction & Recovery Center <https://hrrc.arch.tamu.edu/>  
Department of Landscape Architecture & Urban Planning

Ph.D. Urban and Regional Science, Texas A&M University, 2019; Master of Urban Planning, Huazhong University of Science & Technology, China, 2013; M.S. in Architecture, University of Florida, 2012

*Interests:* Dr. Yu's interest areas include community resilience, plan integration, land use and environmental planning, social vulnerability, hazard mitigation.

Google scholar link:

<https://scholar.google.com/citations?hl=en&user=XvwWvVMAAAAJ>



# STUDENTS

## FORMER STUDENTS (graduated in the last 5 years)

### Employment

Employment outcomes for our recent graduates are listed below. It is worth noting that many of our students take one to three years to find their first academic job. When possible, we retain these recent graduates in post-doctoral research positions for up to three years.

Grad. Year	Name	Employment	Type
2021	Clare Losey	[2021 – Present] Texas Real Estate Research Center, Texas A&M University	University
	Donghwan Gu	[2021 – Present] The Community Resilience Group, Engineering Laboratory   National Institute of Standards and Technology, Gaithersburg, MD	Research Institute
	Gitta Pap	[2021 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Kanghyun Lee	[2021 – Present] College of Architecture, University of Oklahoma, Norman, Oklahoma	University
	Kijin Seong	[2021 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
2020	Haotian Zhong	[2020 – Present] School of Public Administration and Policy, Renmin University, Beijing, China	University
	Wenwen Cheng	[2020 – Present] College of Architecture, University of Oklahoma, Norman, Oklahoma	University
	Sinan Zhong	[2020 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Jinuk Hwang	[2021 – Present] Korea Research Institute for Human Settlements	Research Institute
	Maria Perez	[2020 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
2019	Maria Watson	[2021 – Present] M.E. Rinker School of Construction Management & Shimberg, Center for Housing Studies, College of Design, Construction, & Planning, University of Florida, Gainesville, Florida.	University
	Matthew Malecha	[2019 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Won Min Sohn	[2019 – Present] School of Planning, Design and Construction, Michigan State University,	University

	Siyu Yu	[2019 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Maria Watson	[2019 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Youjung Kim	[2021 – Present] Department of Geography, Planning & Environment, Concordia University, Montreal, Quebec, Canada	University
<b>2018</b>	Fayola Jacobs	[2019 - Present] Humphrey School of Public Affairs, University of Minnesota, Minneapolis, MN	University
	Kayode Atoba	[2018 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Ryun Jung Lee	[2018 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Sungmin Lee	[2018 – Present] Department of Plant Science and Landscape Architecture, College of Agriculture, Health, and Natural Science, University of Connecticut, Connecticut	University
<b>2017</b>	Han John Park	[2017 – Present] Kinder Institute for Urban Research, Rice University, Houston, Texas	University
	Jaekyung Lee	[2017 – Present] Department of Urban Design and Planning, Hongik University, Seoul, Korea	University
	Jeongjae Yoon	[2019 – Present] Korea Research Institute for Human Settlements	Government Agency
	Marccus D. Hendricks	[2017 – Present] School of Architecture, Planning and Preservation, University of Maryland, College Park, MD	University
	Philip Lasley	[2017 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Russell Blessing	[2018 – Present] Department of Marine Sciences, Texas A&M University at Galveston, Texas	University
	Tara Ramani	[2017 – Present] Texas A&M Transportation Institute, Texas A&M University, College Station, Texas	University
	William Mobley	[2018 – Present] Texas A&M University at Galveston, Texas	University
<b>2016</b>	BoAh Kim	[2018 – Present] Department of Geography, College of Science and Mathematics, Bridgewater State University, Massachusetts	University
	Hung-Lung Wei	[2016 – Present] Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, CUNY, New York	University
	Jaewoong Won	[2017 – Present] Department of Real Estate, Kyung Hee University, Seoul, South Korea	University

	Kenneth R. Hurst	2017 – Present] Department of Landscape Architecture and Urban Planning, College of Architecture, Texas A&M University, College Station, Texas	University
	Mizzo Kwon	[2018 – Present] Research Institute of Real Estate and Urban Studies, Konkuk University, Seoul, South Korea	University

## Selected Publications in the Past 5 Years

2020	<p><b>Cheng, W.</b>, J.O. Spengler, and R.D. Brown. 2020. A Comprehensive Model for Estimating Heat Vulnerability of Young Athletes. <i>International Journal of Environmental Research and Public Health</i>.</p> <p><b>Cheng, W.</b> and R.D. Brown. 2020. An Energy Budget Model for Estimating the Thermal Comfort of Children. <i>International Journal of Biometeorology</i>.</p> <p><b>Cheng, W.</b>, Brown, R., Vernez, D. and Goldberg, D., 2020. Estimation of Individual Exposure to Erythral Weighted UVR by Multi-Sensor Measurements and Integral Calculation. <i>Sensors</i>, 20(15).</p> <p><b>Hwang, J.</b>, Li W, Stough L, Lee C and Turnbull K (2020). A Focus Group Study on the Potential of Autonomous Vehicles as a Viable Transportation Option: Perspectives from People with Disabilities and Public Transit Agencies. <i>Transportation Research Part F: Psychology and Behaviour</i>, 70: 260-274. <a href="https://doi.org/10.1016/j.trf.2020.03.007">https://doi.org/10.1016/j.trf.2020.03.007</a></p> <p>Brown, R.D, T. Tasnum, and <b>Y.J. Kim</b>. 2020. Assessing U.S. Landscape Architecture Faculty Research Contribution. <i>Land</i>. 9(3), 64; <a href="https://doi.org/10.3390/land9030064">https://doi.org/10.3390/land9030064</a></p> <p>Hastings, S., <b>Kim, S.W.</b> and Brown, R.D., 2020. Face Temperature as an Indicator of Thermal Stress in Outdoor Work Environments. <i>Atmosphere</i>, 11(6), p.627.</p> <p>Lenzholzer, S., Carsjens, G.J., Brown, R.D., Tavares, S., Vanos, J., <b>Kim, Y.</b> and <b>Lee, K.</b>, 2020. Urban climate awareness and urgency to adapt: An international overview. <i>Urban Climate</i>, 33.</p> <p><b>Lee, S.</b>, Lee, C., Nam, J. W., Abbey-Lambertz, M., &amp; Mendoza, J. A. (2020). School walkability index: Application of environmental audit tool and GIS. <i>Journal of Transport &amp; Health</i>, 18, 100880.</p> <p>Park, K., <b>Lee, S.</b>, &amp; Choi, D. A. (2020). Empty Parks: An Observational and Correlational Study Using Unmanned Aerial Vehicles (UAVs). <i>Journal of Digital Landscape Architecture</i>, 262-274.</p> <p><b>Sohn, W.</b>, Kim, J.H., Li, M.H., Brown, R.D. and Jaber, F.H., 2020. How does increasing impervious surfaces affect urban flooding in response to climate variability? <i>Ecological Indicators</i>, 118.</p> <p><b>Yu, S.</b>, Brand, A.D., Berke, P. (2020). Making Room for the River: Applying a Plan Integration for Resilience Scorecard to a Network of Plans in Nijmegen, Netherlands. <i>Journal of the American Planning Association (Conditionally Accepted)</i>.</p> <p><b>Zhong, S.</b>, Lee, C., Foster, M., and <b>Bian, J.</b> (2020). Intergenerational Communities: A Systematic Literature Review of Intergenerational Interactions and Older Adults' Health-Related Outcomes. <i>Social Science &amp; Medicine</i>. In Press.</p>
2019	<p>Gori, A., <b>Blessing, R.B.</b>, Juan, A., Brody, S., &amp; Bedient, P.B. (2019). Characterizing Urbanization Impacts on Floodplain Through Integrated Land Use, Hydrologic, and Hydraulic Modeling. <i>Journal of Hydrology</i>. 568: 82-95.</p>

**Jacobs, F.** (2019). Black feminism and radical planning: New directions for disaster planning research. *Planning Theory*, 18(1), 24-39.

**Kim, Y.,** Newman, G. (2019). "Climate Change Preparedness: Comparing Future Urban Growth and Flood Risk in Amsterdam and Houston." *Sustainability*. 11 (4), 1048. DOI: 10.3390/su11041048.

Newman, G., Malecha, M., Yu, S., Qiao, Z., Horney, J., Lee, J., **Kim, Y.,** Lee, R.J., Berke, P. (2019). "Integrating a Resilience Scorecard and Landscape Performance Tools into a Geodesign Process." *Landscape Research*. 1-18. DOI:10.1080/01426397.2019.1569219.

**Lee, S.,** Lee, C., and Ory, M.G. (2019) Changes in Neighborhood Environments and Recent Fall Status among Community-Dwelling Older Adults. *International Journal of Environmental Research and Public Health*. 16(18), 3230. doi.org/10.3390/ijerph16183230

**Lee, S.,** Lee, C., and Rodiek S. (2019) Outdoor exposure and perceived outdoor environments correlated to fear of outdoor falling among assisted living residents. *Journal of Aging and Mental Health* (In press) [doi.org/10.1080/13607863.2019.1647139](https://doi.org/10.1080/13607863.2019.1647139)

Towne Jr, S. D., Smith, M. L., Xu, M., **Lee, S.,** Sharma, S., Smith, D., and Ory, M. G. (2019). Trends in Geospatial Drivers of Fall-Related Hospitalizations and Asset Mapping of Fall Prevention Interventions for Vulnerable Older Adults. *Journal of Aging and Health* (In press) <https://doi.org/10.1177/0898264318822381>

Newman, G., **Malecha, M.,** Yu, S., Qiao, Z., Horney, J., Lee, J., Kim, Y.J., Lee, R.J., & Berke, P. (2019). Integrating a resilience scorecard and landscape performance tools into a geodesign process. *Landscape Research*. DOI: 10.1080/01426397.2019.1569219 [~ Environmental Design Research Association (EDRA) Certificate of Research Excellence (CORE) Merit Award ~]

**Malecha, M.,** Masterson, J.H., Yu, S., Lee, J., Thapa, J., Roy, M. & Berke, P. (2019). Plan Integration for Resilience Scorecard Guidebook: Spatially evaluating networks of plans to reduce hazard vulnerability. College Station, TX: Institute for Sustainable Communities, College of Architecture, Texas A&M University. Retrievable from [http://mitigationguide.org/wp-content/uploads/2018/03/PIRSGuidebook2.0\\_FullDraft\\_March2019.pdf](http://mitigationguide.org/wp-content/uploads/2018/03/PIRSGuidebook2.0_FullDraft_March2019.pdf)

**Sohn, W.,** Kim, J. H., Li, M. H., & Brown, R. (2019). The influence of climate on the effectiveness of low impact development: A systematic review. *Journal of environmental management*, 236, 365-379.

Yu, X. and **Watson, M.** (2019). Guidance on Conducting a Systematic Literature Review. *Journal of Planning Education and Research*, 39(1), 93-112.

Berke, P., **Yu, S.,** Malecha, M., & Cooper, J. (2019). Plans that Disrupt Development: Equity Policies and Social Vulnerability in Six Coastal Cities. *Journal of Planning Education and Research*, DIO:0739456X19861144

Berke, P., Malecha, M., **Yu, S.,** Lee, J., & Masterson, J. (2019). Plan Integration for Resilience Scorecard: Evaluating Networks of Plans in Six US Coastal Cities. *Journal of Environmental Planning and Management*, 1-20. DOI:10.1080/09640568.2018.1453354.

Newman, G., Malecha, M., **Yu, S.,** Qiao, Z., Horney, J., Lee, J., Kim, Y.J., Lee, R.J., & Berke, P. (2019). Integrating a Resilience Scorecard and Landscape Performance Tools into a Geodesign Process. *Landscape Research*. DOI:10.1080/01426397.2019.1569219



	<p>Hendricks, M., Newman, G., <b>Yu, S.</b>, Horney, J. (2019). Leveling the Landscape: Landscape Performance as a Green Infrastructure Evaluation Tool for Service-Learning Products. <i>Landscape Journal</i>. DOI: 10.3368/lj.37.2.19</p> <p>Lennox-Morrison, J., Meyer, M., Williams, A., <b>Yu, S.</b> (2019). <i>Disaster Recovery Professionals Guidance Development: Quantitative Survey Report</i>. Funded by the American Planning Association and Federal Emergency Management Agency.</p>
<b>2018</b>	<p><b>Atoba, K.</b> Brody, S. Highfield, W., and Merrell, W. (2018). Estimating Residential Property Loss Reduction from a Proposed Coastal Barrier System in the Houston-Galveston Region., <i>Natural Hazards Review</i> 19(3) DOI: 10.1061/(ASCE) NH.1527-6996.0000297.</p> <p>Davlasheridze, M., <b>Atoba, K.</b>, Highfield, W., Brody, S, Merrell, W., Purdue, A., &amp; Gillmer, W. (2018) "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". <i>Mitigation and Adaptation Strategies for Global Change</i>. 1-26.</p> <p>Brody, S. &amp; <b>Atoba, K.</b> (2018). Institutional Resilience: The Example of Flood Resiliency in the United States. In S. Fuchs &amp; T. Thaler (Eds.), <i>Vulnerability and Resilience to Natural Hazards</i> (pp. 237-256). Cambridge: Cambridge University Press.</p> <p>Peters, D., <b>Hamideh, S.</b>, Zarecor, M., and Ghandour. (2018). A Typology of Shrinkage and Growth: understanding change in population and quality of life in Iowa small towns. <i>Journal of Rural Studies</i>. Vol. 64, Pages 39-49 Published online.</p> <p><b>Hamideh, S.</b>, and Rongerude, J. (2018). Social Vulnerability and Representation in Recovery Decisions: Public Housing Recovery in Galveston, Texas following Hurricane Ike. <i>Natural Hazards</i>. Vol. 93, Issue 3, pp 1629–1648, DOI: 10.1007/s11069-018-3371-3</p> <p><b>Hamideh, S.</b>, Peacock, W.G. and Van Zandt, S. (2018). Housing Recovery after Disasters: Primary versus Seasonal/Vacation Housing Markets in Coastal Communities. <i>Natural Hazards Review</i>. Vol. 19, Issue 2. DOI: 10.1061/(ASCE)NH.1527-6996.0000287</p> <p>Meyer, M., <b>Hendricks, M.D.</b>, Horney, J., Berke, P.R., Masterson, J., Newman, G., Sansom, G., Van Zandt, S. &amp; Cooper, J. (2018) "Participatory Action Research: Tools for Disaster Resiliency Education." <i>International Journal of Disaster Resilience in the Built Environment</i>. DOI: 10.1108/IJDRBE-02-2017-0015</p> <p>Gibson, J.*, <b>Hendricks, M. D.</b>, &amp; Wells, J. (2018) "From Engagement to Empowerment: How Heritage Professionals Can Incorporate Participatory Methods in Disaster Recovery to Better Serve Socially Vulnerable Groups." <i>International Journal of Heritage Studies</i>, 1-15, DOI: 10.1080/13527258.2018.15302912018</p> <p>Meyer, M. &amp; <b>Hendricks, M. D.</b> (2018). "Using Photography to Assess Housing Damage and Rebuilding Progress for Disaster Recovery Planning." <i>Journal of the American Planning Association</i>, 84:2, 127-144, DOI: 10.1080/01944363.2018.1430606</p> <p><b>Hendricks, M. D.</b>, Meyer, M., Gharaibeh, N., Van Zandt, S., Masterson, J., Cooper, J., Horney, J., &amp; Berke, P. (2018). "The Development of a Participatory Assessment Technique for Infrastructure: Neighborhood-level Monitoring Towards Sustainable Infrastructure Systems." <i>Sustainable Cities and Society</i>, 38, 265-274, DOI: 10.1016/j.scs.2017.12.039</p> <p>Newman, G., Hollander, J., Lee, J., Gu, D., <b>Kim, B.</b>, &amp; Lee, R.J., Horney, J., Bearfield, D., Li, Y. (2018). "Smarter Shrinkage: A Neighborhood-scaled Right Sizing Strategy based on Land Use Dynamics." <i>Journal of Geovisualization and Spatial Studies</i> 2(11): in-press. DOI: 10.1007/s41651-018-0018-6</p>

- Newman, G., Meyer, M., **Kim, B.**, & **Lee, R.** (2018) "Gauging the Relationship between Contextual Growth and Structural Neglect.", *Journal of Contemporary Urban Affairs*, 2:(2), 33-45. DOI: 10.25034/ijcua.2018.3669
- Kim, Y. J.**, Lee, C., & Kim, J. H. (2018). Sidewalk Landscape Structure and Thermal Conditions for Child and Adult Pedestrians. *International Journal of Environmental Research and Public Health*, 15(1), 148.
- Kim, Y. J.**, Lee, C., & Kim, J. H. (2018). Healthy and Unhealthy Dietary Behaviors among Adults: A Cross-Sectional Study. *Korean Journal of Health and Education Promotion*, 34(5), 83-94.
- Kim, J. M., Park, Y. J., Son, K., & **Kim, Y. J.** (2018). Public Housing Lifecycle Cost Analysis for Optimal Insulation Standards in South Korea. *Energy and Buildings*, 161, 55-62.
- Kim, J. M., Son, K., & **Kim, Y. J.** (2018), (online published) Assessing Regional Typhoon Risk of Disaster Management by Clustering Typhoon Paths. *Environment, Development and Sustainability*, 1- 14.
- Kwon, M.**, Pickett, D., Lee, Y., & Lee, S. (2018). (Online First). Neighborhood Physical Environments, Recreational Wellbeing, and Psychological Health. *Applied Research in Quality of Life*, 1-19. <https://doi.org/10.1007/s11482-018-9591-6>. [SSCI; Impact Factor: 1.286]
- Kwon, M.**, Lee, J., & Choi, N. (2018). Social Cohesion and Life Satisfaction. *Korean Journal of Public Administration*, 56:1, p. 339-363 (In Korean)
- Shin, M.H., **Lee, H.K.**, & Kim, H.Y. (2018). Benefit-Cost Analysis of Building Information Modeling (BIM) in a railway site. *Sustainability*, 10, 1-10. (SSCI/IF:2.075)
- Lee, H.K.** (2018). A Panel Data Analysis of a Spatial Measurement of Green Infrastructure and Its Potential Effectiveness on Peak Streamflow. *Environment, Development and Sustainability*, 1-32, doi:<http://dx.doi.org/10.1007/s10668-018-0210-3>. (SCIE/ IF:1.379)
- Lee, H.K.**, and Kim, H.Y. (2018). Economic Growth for Ecological Conversion: South Korean Case. *Environmental Sciences Europe*. 30:21, <https://doi.org/10.1186/s12302-018-0149-x>. (SCIE/ IF:4.040)
- Lee, H.K.** (2018). The Potential Implementation of Green Infrastructure Assessment Using High Resolution National Agriculture Imagery Program (NAIP) Data for Sustainable Hazard Mitigation. *The International Journal of Sustainable Development & World Ecology*. (In press, online version available), 25(4), 371-381. doi: 10.1080/13504509.2017.1409821. (SCI/ IF: 2.373)
- Newman, G., Hollander, J., **Lee, J.**, Gu, D., Kim, B., Lee, R.J., Horney, J.A., Bearfield, D. and Li, Y. (2018). Smarter Shrinkage: a Neighborhood-Scaled Rightsizing Strategy Based on Land Use Dynamics. *Journal of Geovisualization and Spatial Analysis*, 2(2), 11.
- Berke, P., Malecha, M., Yu, S., **Lee, J.**, & Masterson, J. (2018). Plan integration for resilience scorecard: evaluating networks of plans in six US coastal cities. *Journal of Environmental Planning and Management*, (Online Published).
- Lee, J.**, Newman, G. & Park, Y. (2018). A Comparison of Vacancy Dynamics between Growing and Shrinking Cities using the Land Transformation Model. *Sustainability*, 10(5), 1513
- Lee, J.Y.**, Bame, S., & Longnecker, M. (Accepted, 2018). Merging Incomplete Tertiary Datasets: The Case of 2-1-1 Information and Referral Missing Data. *Journal of Social Service Research*.

Newman, G., Hollander, J., Lee, J., Gu, D., Kim, B., & **Lee, R.J.**, Horney, J., Bearfield, D., Li, Y. (2018, in-press) "Smarter Shrinkage: A Neighborhood-scaled Right Sizing Strategy based on Land Use Dynamics." *Journal of Geovisualization and Spatial Studies*, 2(11)

Masterson, J., Meyer, M., Ghariabeh, N., Hendricks, M., **Lee, R.J.**, Musharrat, S., Newman, G., Sansom, G., Van Zandt, S. (2018, in-press). Interdisciplinary Citizen Science for Hazard and Disaster Education. *International Journal of Mass Emergencies and Disasters*

**Lee, S.**, Lee, C., Ory, M. G., Won, J., Towne, S. D., Wang, S., & Forjuoh, S. N. (2018). Fear of Outdoor Falling among Community-Dwelling Middle-Aged and Older Adults: The Role of Neighborhood Environments, *The Gerontologist* [2016 Impact Factor 3.505; SSCI] doi.org/10.1093/geront/gnx123 (Excellence in Safety Research for Active Living Poster Award)

**Malecha, M.L.**, Brand, A.D., & Berke, P.R. (2018). Spatially evaluating a network of plans and flood vulnerability using a Plan Integration for Resilience Scorecard: A case study in Feijenoord District, Rotterdam, the Netherlands. *Land Use Policy*, 78, 147-157. DOI: 10.1016/j.landusepol.2018.06.029

Berke, P.R., **Malecha, M.L.**, Yu, S., Lee, J., & Masterson, J.H. (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

Van de Lindt, J.W., W. G. Peacock, J. Mitrani-Reiser, **Rosenheim, N.**, D. Deniz, M. Dillard, T. Tomiczek, M. Koliou, A. Graettinger, S. Crawford, K. Harrison, A. Barbosa, J. Tobin, J. Helgeson, L. Peek, M. Memari, E. Sutley, D. Gu, S. Cauffman, and J. Fung. (2018) Community Resilience- Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Multi- Disciplinary Approach. National Institute of Standards and Technology (NIST SP 1230). doi: 10.6028.NIST.SP.1230.

**Ramani, T.** (2018). Using Indicators to Assess Sustainable Transportation and Related Concepts. *Transportation Research Record*. <https://doi.org/10.1177/0361198118794543>

Khreis, H., **Ramani, T.**, de Hoogh, K., Mueller, N. Rojas-Rueda, D. Zietsman, J., Nieuwenhuijsen, M (2018). "Traffic-Related Air Pollution and the Local Burden of Childhood Asthma in Bradford, UK". *International Journal of Transportation Science and Technology*

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**Ramani, T.**, Zietsman, J. Pryn, M. (2018) "Towards Sustainable Transport Planning in the United States." *European Journal of Transport & Infrastructure Research* Vol. 18. No. 3.

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Van Berchum, E.C., **Mobley, W.** Jonkman, S.N. Brody, S.D. (2018). Optimisation of Flood Risk Reduction in Coastal Regions through Combinations of Interventions. *Journal of Flood Risk Management*

**Rosenheim, N.**, Grabich SC, Horney JA. (2018) Disaster impacts on cost and utilization of Medicare. *BMC Health Services Research*. doi: 10.1186/s12913-018-2900-9

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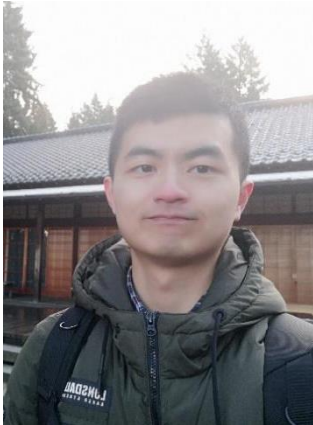
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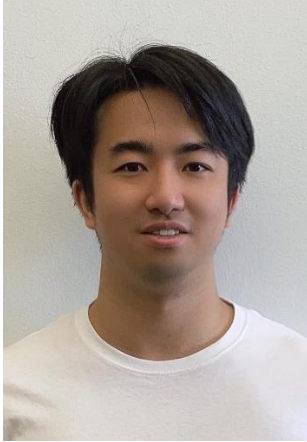
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B.Sc. Civil Engineering, Sharif University of Technology in Tehran, Iran, 2015; M.Sc. Construction Engineering and Management, Sharif University of Technology in Tehran, Iran, 2018

*Interests:* Machine learning, artificial intelligence, natural disaster, sustainability, energy analysis, building information modeling

*Emphasis areas:* Environmental hazards; sustainability

*Contact:* bahareh.alizadeh@tamu.edu



**SeWoong Kim**

Microclimatic design and research group  
<http://www.designwithmicroclimate.com/>

Bachelor of Science in Architectural Engineering, Inha University, 2005; Master of Engineering in Architecture, Inha University, 2010; Master of Urban Design, University of California, Berkeley, 2013

*Interests:* Microclimate urban design, urban heat island, outdoor thermal comfort for pedestrians and homeless

*Emphasis areas:* Sustainability

*Contact:* sewoongkim@tamu.edu



**Erika Koeniger**

Bachelor of Arts in Human Services and International Affairs, Northeastern University, 2017; Master of Public Administration, Texas A&M University, 2020

*Interests:* Emergency Management and Community Development

*Emphasis areas:* Environmental hazards; sustainability; housing and community development

*Contact:* koeniger.e@tamu.edu





**Jacqueline Kuzio**

Texas A&M Transportation Institute <https://tti.tamu.edu>

B.AHons., Politics and American Studies, University of Nottingham, UK, 2014; M.P.A., The Bush School at Texas A&M University, 2016

*Interests:* Transportation equity and justice, emerging technologies in transportation, transportation investment

*Emphasis areas:* Transportation; housing and community development

*Contact:* jackikuzio@tamu.edu



**Judanne Lennox**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

BSc. Urban & Regional Planning, University of Technology, Jamaica, 2010; Master of Urban Planning, Texas A&M University, 2020

*Interests:* Disaster recovery, community driven disaster resilience, neighborhood revitalization, citizen power, hazard mitigation

*Emphasis areas:* Environmental hazards; Housing and community development

*Contact:* j\_lennox.morrison@tamu.edu



**Leslie Lutz**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu>

B.S. Renewable Natural Resources, Texas A&M University, 2002; MUP in Urban Planning, Texas A&M University, 2007

*Interests:* Emergency planning and response, hazard mitigation, community resiliency, risk assessment and communication, team processes

*Emphasis areas:* Environmental Hazards

*Contact:* leslielutz@tamu.edu



**Jessica Lee**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

B. Arch., Ewha Womans University, South Korea, 2011; M.S. in Urban Design, Seoul National University, South Korea, 2013

*Interests:* Hazard mitigation, stormwater management, social and environmental equity, affordable housing, urban design and urban form

*Emphasis areas:* Environmental hazards; housing and community development; sustainability

*Contact:* jjlee8605@tamu.edu



**Melina Matos**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

Bachelor in Architecture and Urbanism, State University of Londrina, Brazil; Master in Public Administration, Texas Tech University

*Interests:* Climate adaptation, sustainability, resilient communities, urban innovation

*Emphasis areas:* Environmental hazards; sustainability

*Contact:* melina\_matos@tamu.edu



**Madison Metsker-Galarza**

Texas A&M Transportation Services

B.S. in Environmental Geosciences, Texas A&M University, 2016; M.S. in Urban Planning, Texas A&M University, 2018

*Interests:* Public engagement, communication, town and gown relationships

*Emphasis areas:* Housing and community development

*Contact:* m-metsker-galarza@tamu.edu



**Amaryllis Park**

Center for Health Systems and Design <https://chsd.arch.tamu.edu/>

B.S. in Architectural Studies, University of Illinois at Urbana Champaign, 2010; M.S. in Architectural Engineering, Seoul National University, S. Korea, 2016

*Interests:* Built environment and children's healthy development, physical activity, activity space, child-friendly destinations, spatial disparity

*Emphasis areas:* Health and wellbeing; housing and community development

*Contact:* apark27@tamu.edu



**Dingding Ren**

Hazard Reduction and Recovery Center <http://hrrc.arch.tamu.edu/>

B.A., urban planning, University of Yunnan, China, 2011; M.S., landscape architecture, Texas A&M University, 2018

*Interests:* Green infrastructure, flooding mitigation, sustainability, water-resilient

*Emphasis areas:* Environmental hazards; sustainability

*Contact:* dingding1987@tamu.edu



**Malini Roy**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

B.Arch-Sardar Patel University, India, 2014; MSc in Regional Planning-Cornell University, 2017

*Interests:* Climate Adaptation, Spatial Planning; Social Capital & Adaptive Capacity; Coastal Urban Flooding

*Emphasis areas:* Environmental hazards; sustainability

*Contact:* mr956@tamu.edu



**Joy Semien**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

B.A., Biology and Chemistry; M.A., Urban Planning and Environmental Policy

*Interests:* Community capacity building for disaster resilience, preparedness, and recovery

*Emphasis areas:* Environmental hazards

*Contact:* joysemien@tamu.edu



**Michelle Stanley**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

B.S. Environmental Engineering, University of Miami, 2017; M.S. Environmental Engineering, University of Miami, 2018

*Interests:* Hazards mitigation, disaster recovery, flood mitigation, climate adaptation planning

*Emphasis areas:* Environmental hazards

*Contact:* mcstanley@tamu.edu



**Quan Sun**

B.Eng. Urban Planning, Tianjin University, 2015; MCP. City Planning, UC Berkeley, 2017

*Interests:* Active Transportation, autonomous driving, smart city

*Emphasis areas:* Transportation; environmental hazards

*Contact:* sunquan@tamu.edu

**Jason Wallis**

B.A. Music Production and Management; University of Northern Colorado; B.A. Geographic Information Systems; University of Northern Colorado; M.S. Transportation Management, University of Denver

*Interests:* Urban goods movement

*Emphasis areas:* Transportation; housing and community development

*Contact:* j-wallis@tti.tamu.edu

**Haider Waseem Anwar**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

B.Sc. Political Science from Lahore University of Management Sciences (LUMS), Pakistan, 2015; M.A. International Relations Central European University, Budapest, Hungary, 2019

*Interests:* Disaster risk reduction, climate change induced risks, flood risk, social stress and inequality, community resilience

*Emphasis areas:* Environmental hazards

*Contact:* anwar\_haider@tamu.edu

**Chandler Ian Wilkins**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

Bachelor of Science in Community and Regional Planning, Iowa State University, 2017; Master of Urban Planning, Texas A&M University, 2019

*Interests:* Neighborhood quality, low income housing, displacement, and post-disaster recovery

*Emphasis areas:* Housing and community development; environmental hazards

*Contact:* cwilkins@tamu.edu





### **Zhihan Tao**

Bachelor of Landscape Architecture, Hainan University, China, 2015;  
Master of Landscape Architecture, Texas A&M University, 2018

*Interests:* Landscape performance, flood resilience, urban spatial analysis, microclimate and public health

*Emphasis areas:* Health and Wellbeing; environmental Hazards

*Contact:* tabris2tabris@tamu.edu



### **Emily Tedford**

Center for Health Systems and Design <https://chsd.arch.tamu.edu/>

BS-URPN and MUP Planning from Texas A&M University, 2015

*Interests:* Planning for youth, community engagement, built environment and child development

*Emphasis areas:* Health and Wellbeing; housing and community development

*Contact:* etedford@tamu.edu



### **Tho Tran**

Bachelor in Architecture and Planning, National University of Civil Engineering, Vietnam; Master of Urban Planning, Texas A&M University

*Interests:* Affordable housing, community development, plan evaluation, comprehensive plans, spatial and statistical analysis

*Emphasis areas:* Housing and community development, Sustainability

*Contact:* ductho2211@tamu.edu



**Muhammad Usman**

ENDEAVR Group <http://endeavr.city/>

B.E. Civil Engineering, National University of Science and Technology, Pakistan, 2008; MUP Urban Planning, University of Illinois at Urbana-Champaign, 2019

*Interests:* Future transportation technologies, smart city, smart growth, land use and transportation planning

*Emphasis areas:* Transportation; sustainability

*Contact:* usman2@tamu.edu



**Heather Wade**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>  
Oregon Coastal Management Program, Oregon

Bachelor of Science in Environmental Studies, Minors in Geography and Earth Sciences, 2009; Master of Urban Planning, Graduate Certificate in Environmental Hazards Management, 2011

*Interests:* Hazard mitigation, coastal management, coastal planning, land use and environmental planning, coastal governance, community resilience, post-disaster recovery, environmental policy

*Emphasis areas:* Environmental hazards; sustainability; housing and community development

*Contact:* hwade@tamu.edu



**Kai Wu**

Hazard Reduction and Recovery Center <https://hrrc.arch.tamu.edu/>

Bachelor in Landscape Architecture, Zhejiang University, China; Juris Master, Guanghua Law School, Zhejiang University, China; Master of Urban Planning, Texas A&M University

*Interests:* Hazard mitigation, social capital, community resilience and recovery, household and business recovery

*Emphasis areas:* Environmental hazards; sustainability

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**Shenliang Xue**

Microclimatic Design Research Group

<http://www.designwithmicroclimate.com/>

BLA Landscape Architecture, Nanjing Forestry University, China, 2014;

MLA Landscape Architecture, Tongji University, China, 2018

*Interests:* microclimate design, thermal comfort, health and well-being

*Emphasis areas:* Health and Wellbeing; environmental hazards

Contact: simonxue92@tamu.edu

**Haoyue Yang**

Bachelor of Engineering in Landscape Architecture, Northeastern Forestry University, China, 2017; Master of Landscape Architecture, Texas A&M University, 2020

*Interests:* Active Living, evidence-based health planning and design; therapeutic landscapes

*Emphasis areas:* Health and wellbeing; sustainability

Contact: momoyizan@tamu.edu

**Yue Zhang**

Microclimatic Design Research Group

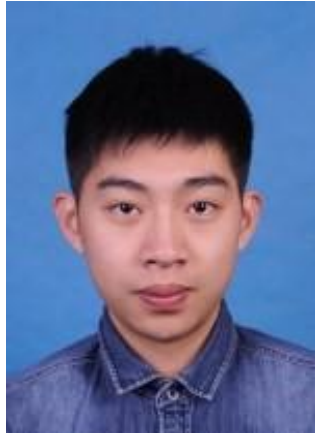
<http://www.designwithmicroclimate.com/>

B.Eng. Landscape Architecture, Nanjing Agricultural University, China, 2017; Master of Landscape Architecture, Texas A&M University, 2021

*Interests:* Environmental justice and health equity; urban nature and children's health; microclimatic design and public health

*Emphasis areas:* Health and Wellbeing; sustainability

Contact: yz94@tamu.edu



### **Chunwu Zhu**

Bachelor of Management, Renmin University of China, 2017; Master of Management, Renmin University of China, 2021

*Interests:* Disaster simulation; Urban digital twin; Environmental criminology

*Emphasis areas:* Environmental hazards; transportation

Contact: [chunwu.zhu@tamu.edu](mailto:chunwu.zhu@tamu.edu)



### **Rui Zhu**

Bachelor of Landscape Architecture, Fujian Agriculture and Forestry University, China, 2015; Master of Landscape Architecture, Texas A&M University, 2018

*Interests:* Spatial and temporal change of vacant land, urban regeneration, flood resilience

*Emphasis areas:* Housing and community development; health and wellbeing

Contact: [zr1991@tamu.edu](mailto:zr1991@tamu.edu)

## **Home countries of current students**



# PROGRAM REQUIREMENTS

## CURRICULUM REQUIREMENTS

The URSC requires a minimum of 64 credit hours, including 32 credits of core curriculum, and 32 or more credits of electives and research credits. All credit hours beyond 99 are charged out-of-state rates. The minimum duration is about 3.5 years, but students are told to expect the program to take four years. Students are required to have a master's degree before beginning the Ph.D. The curriculum is structured as follows:

1. **Core Curriculum** (32 Credits)
  - a. Research Approaches (9 credits)
    - o CARC 601 - Foundation of Research in Planning and Design
    - o CARC 602 - Research Methods in Planning and Design
    - o One Specialty Research Methods Course (3 credits): e.g. ECON 655, EDAD 690, GEOG 611, LAND 640, PLAN 613, PHSB 605, RELM 635, SOCI 623, SOCI 624, or SOCI 633
  - b. Analytic Methods (9 credits)
    - o URSC 641 – Analytic Methods in Landscape and Urban Research I
    - o URSC 642 – Analytic Methods in Landscape and Urban Research II
    - o One Specialty Analytic Course (3 credits): e.g. URSC 645, SOCI 631, EDAD 690, FRSC 663, PSYC 607, PSYC 671, PSCY 673. Or EPSY 690
  - c. Theory (9 credits)
    - o URSC 631 – Foundations of Planning Thought
    - o URSC 632 – Structure and Functions of Cities and Regions
    - o One Specialty Theory Course (3 credits): e.g. ARCH 675, LAND 645, LDEV 673, LDEV 677, PLAN 627, PLAN 631, PLAN 647, PLAN 649, PLAN 664, POLS 646, RLEM 602, or SOCI 622
  - d. Professional Development (2 credits)
    - o URSC 681 – Professional Seminar I (1 credits)
    - o URSC 682 – Teaching Practicum (1 credits)
  - e. Teaching (3 credits)
    - o URSC 685 - Teaching Practicum (3 credits)
2. **Specialty Curriculum** (9-12 Credits)
  - o Three or four other specialty courses (9-12 credits) that fit the student's research interests to be agreed upon with his/her committee chair
3. **Research/Dissertation Credits**
  - o Research/dissertation credits for the rest of the course of study.

## Brief Description of Core Courses

CARC 601. Foundations of Research in Planning and Design. (3-0). Credit 3.



Introduction to the research process and its application to problems in planning and design; presentation of philosophy and logic underlying the scientific method; critical analysis of planning and design literature according to each step of the research process: problem definition, hypothesis development, study design, analysis and interpretation of the findings.

CARC 602. Research Methods in Planning and Design. (3-0). Credit 3.

Basic empirical research methods used in planning and design research: experimental, survey and case study designs; comparisons of the various methods; application of techniques in sample selection, data collection and analytic approaches. May be repeated for credit. Prerequisite: URSC 641 or equivalent.

URSC 641. Urban and Regional Analysis I. (3-0). Credit 3.

Provides students in urban and regional science with a fundamental understanding and hands on experiences with techniques and procedures related to conceptual measurement and operational issues, data set development and manipulation, and data analysis issues critical for conducting academic research. Prerequisite: Doctoral Student Standing.

URSC 642. Analytic Methods in Landscape and Urban Research II. (3-0). Credit 3.

Provides students in urban and regional science with a survey of hands on experiences with advanced techniques and procedures related to conceptual measurement and operational issues, data set development and manipulation and data analysis issues critical for conducting academic research. Prerequisites: STAT 651, CARC 601, URSC 641, permission.

URSC 631. Foundations of Planning Thought (3-0). Credit 3.

This PhD level course examines a series of foundational issues in planning and design theory. These include the definition of planning problems, rationality, modernism and post modernism, the validation of value judgments, relations with future generations, multiculturalism and gender justice in liberal democratic societies. Prerequisite(s): Doctoral classification or instructor permission.

URSC 632. Structure and Functions of Cities and Regions (3-0). Credit 3.

Surveys the design, financial, natural, physical, political and social parameters that influence the development of cities and regions, including presentation of theories about cities and regions, organization of, planning to shape them, and public and private sector plans for structure and function of cities and regions. Prerequisite(s): Doctoral classification or instructor permission.

URSC 681. Professional Seminar I. (1-6). Credit 1.

Analysis and criticism of selected landscape architectural projects. Lectures, reports and discussions. Prerequisite: Graduate classification in landscape architecture and urban planning.

URSC 682. Professional Seminar II. (1-6) Credit 1.

Reports and discussions of current research and selected topics in urban and regional planning. Prerequisite: Approval of instructor.

URSC 685. Teaching Practicum. (1-6) Credit 3.

All doctoral students must teach a course before graduating. Students who are instructors of record for an undergraduate course should concurrently enroll in URSC 685 with their mentor or graduate committee chair to receive the teaching credit. Students who do not have an opportunity to be instructors of record will (a) enroll in URSC 685 in their 3rd Spring Semester, (b) complete the Center for Teaching Excellence's Academy for Future Faculty certification program, and (c) guest-instruct in a section of URPN 202.

## Specialty Courses

- Available courses for Specialty Methods, Analytic Methods, and Theory are listed below, but other courses may be substituted with the approval of URSC Program Coordinator or Graduate Committee Chair.
- Take at least one course from each section during the first two years of the study.

Research Methods Courses	Credits
<b>ECON 655</b> Experimental Economics	3
<b>EDAD 690</b> Theory of Educational Administration Research	3
<b>GEOG 611</b> Geographical Research Design <sup>1</sup>	3
<b>LAND 640</b> Research Methods in Landscape Architecture	3
<b>PLAN 613</b> Planning Methods and Techniques	3
<b>SOCI 623</b> Measurement of Sociological Parameters	3
<b>SOCI 624</b> Qualitative Methodology	3
<b>SOCI 633</b> Demographic Methods	3
Analytic Methods Specialty Courses	Credits
<b>SOCI 631</b> Seminar in Sociological Research	3
<b>EDAD 690</b> Theory of Educational Administration Research <sup>2</sup>	3
<b>PSYC 607</b> Experimental Psychology	3
<b>PSYC 671</b> Experimental Design for Behavioral Scientists	3
<b>URSC 645</b> Urban & Regional Analytics (Data Management)	3
<b>STAT 647</b> Spatial Statistics	3
Theory Specialty Courses	Credits
<b>ARCH 675</b> Health Design and Research	3
<b>LAND 645</b> Practice Diversity in Landscape Architecture	3
<b>LDEV 667</b> Design and Development Economy	3
<b>PLAN 612</b> Transportation & the City	3
<b>PLAN 627</b> Economic Development	3
<b>PLAN 635</b> Ecological Planning & Design	3
<b>PLAN 664</b> Planning Theory and History	3
<b>PLAN 656</b> Housing & Community	3
<b>PLAN 673</b> Sustainable Transportation	3

<sup>1</sup> **GEOG611** is one of the required courses for geography grad students. There is a cap in enrollment and priority will be given to their own grad students during the enrollment.

<sup>2</sup> **EDAD690** is usually only open to their SAAHE cohort students.

## Degree Planning Guide

### Year 1

FALL			
Course	Type	Title	Credit
CARC 601	Method (core)	Foundations	3
URSC 641	Analytic (core)	Analytic Research Methods I	3
URSC 631 Or URSC 632	Theory (core)	Foundations of Planning Thought Structure and Functions of Cities and Regions	3
URSC 681	Other (core)	Seminar	1
<b>TOTAL</b>			10

SPRING			
Course	Type	Title	Credit
CARC 602	Method (core)	Methods	3
URSC 642	Analytic (core)	Analytic Research Methods II	3
URSC 631 Or URSC 632	Theory (core)	Foundations of Planning Thought Structure and Functions of Cities and Regions	3
URSC 682	Other (Core)	Seminar	1
<b>TOTAL</b>			10

### Year 2

FALL			
Course	Type	Title	Credit
Specialty Method Course			3
Specialty Analytic Course			3
Specialty Theory Course			3
<b>TOTAL</b>			9

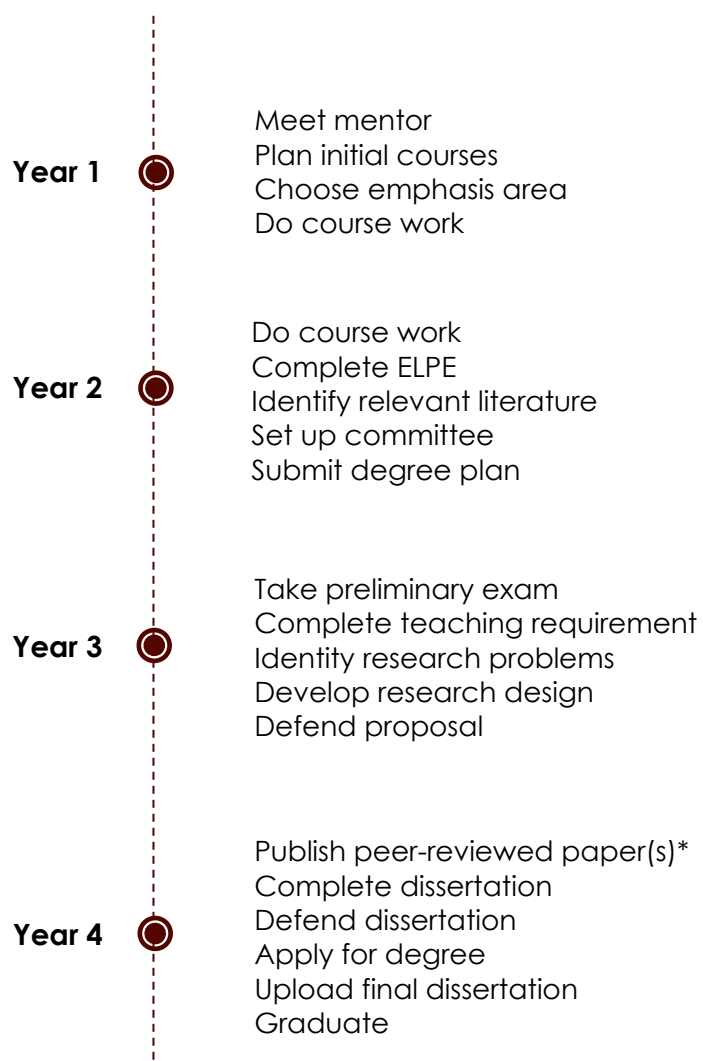
SPRING	
Course	Credit
Specialty Curriculum	9-12
<b>TOTAL</b>	9-12

### Year 3+

REMAINING SEMESTERS	
Course	Credit
Teaching Practicum (URSC 685 Directed Studies)	3
Research Hours	20
<b>TOTAL</b>	23

## Degree Timelines

### 4-year Timeline



Note: \* means aspiration goals

## PROCEDURAL GUIDELINES

### a. Meet Mentor and Plan Initial Courses

Meet with your mentor and plan your first semester courses and start to think about your research emphasis area.

### b. Submit Degree Plan

The PhD in Urban and Regional Science requires a minimum of 64 credit hours. The following areas are core courses for the program.

#### 1. CORE CURRICULUM (32 CREDITS)

##### Research Methods (9 credits)

CARC 601. Foundations of Research in Planning and Design. (3-0). Credit 3.

Introduction to the research process and its application to problems in planning and design; presentation of philosophy and logic underlying the scientific method; critical analysis of planning and design literature according to each step of the research process: problem definition, hypothesis development, study design, analysis and interpretation of the findings.

CARC 602. Research Methods in Planning and Design. (3-0). Credit 3.

Basic empirical research methods used in planning and design research: experimental, survey and case study designs; comparisons of the various methods; application of techniques in sample selection, data collection and analytic approaches. May be repeated for credit. Prerequisite: URSC 641 or equivalent.

One Specialty Research Methods Course (3 credits): e.g. ECON 655, EDAD 690, GEOG 611, LAND 640, PLAN 613, PHSB 605, RELM 635, SOCI 623, SOCI 624, or SOCI 633.

##### Analytic Methods (9 credits)

URSC 641. Urban and Regional Analysis I. (3-0). Credit 3.

Course Description: Provides students in urban and regional science with a fundamental understanding and hands on experiences with techniques and procedures related to conceptual measurement and operational issues, data set development and manipulation, and data analysis issues critical for conducting academic research. Prerequisite: Doctoral Student Standing

URSC 642. Analytic Methods in Landscape and Urban Research II. (3-0). Credit 3.

Provides students in urban and regional science with a survey of hands on experiences with advanced techniques and procedures related to conceptual measurement and operational issues, data set development and manipulation and data analysis issues critical for conducting academic research. Prerequisites: STAT 651, CARC 601, URSC 641, permission.



One Specialty Analytic Course (3 credits): e.g. SOCI 631, EDAD 690, PSYC 607, PSYC 671, PSYC 672, PSYC 673, or EPSY 690.

### **Theory (9 credits)**

#### URSC 631. Foundations of Planning Thought (3-0). Credit 3

This PhD level course examines a series of foundational issues in planning and design theory. These include the definition of planning problems, rationality, modernism and post modernism, the validation of value judgments, relations with future generations, multiculturalism and gender justice in liberal democratic societies. Prerequisite(s): Doctoral classification or instructor permission. Prerequisites: Doctoral Students Only.

#### URSC 632. Structure and Functions of Cities and Regions (3-0). Credit 3

Surveys the design, financial, natural, physical, political and social parameters that influence the development of cities and regions, including presentation of theories about cities and regions, organization of, planning to shape them, and public and private sector plans for structure and function of cities and regions. Prerequisite(s): Doctoral classification or instructor permission. Prerequisites: Doctoral Students Only.

One Specialty Theory Course (3 credits): e.g. ARCH 675, LAND 645, LDEV 673, LDEV 677, PLAN 631, PLAN 647, PLAN 649, PLAN 664, POLS 646, RLEM 602, or SOCI 622.

### **Doctoral Seminars (2 credits)**

#### URSC 681. Seminar. (1-0). Credit 1.

Analysis and criticism of selected landscape architectural projects. Lectures, reports and discussions. Prerequisite: Graduate classification in landscape architecture.

#### URSC 682. Seminar. (1-0). Credit 1.

Reports and discussions of current research and selected topics in urban and regional planning. Prerequisite: Approval of instructor.

### **Teaching Practicum (3 credits)**

#### URSC 685. Teaching Practicum (3-0). Credit 3

All doctoral students must teach a course before graduating. Students who are instructors of record for an undergraduate course should concurrently enroll in URSC 685 with their mentor or graduate committee chair to receive the teaching credit. Students who do not have an opportunity to be instructors of record will (a) enroll in URSC 685 in their 3rd Spring Semester, (b) complete the Center for Teaching Excellence's Academy for Future Faculty certification program, and (c) guest-instruct in a section of URPN 202.

## **2. SPECIALTY CURRICULUM (9-12 CREDITS)**

3 to 4 other specialty courses (9-12 credits) that fit your research interests.

### **c. Complete Coursework and ELPE**

### **d. Take Preliminary Examination**

Student and chair review eligibility requirements using the Preliminary Examination checklist, which should be completed several weeks prior to Preliminary Examination date. Checklist must be signed by the Chair of the graduate student's committee, URSC program coordinator, and LAUP department head.

1. Student checks the availability of committee members—Completed several weeks prior to preliminary exam date.
2. Student prepares and submits any petition found necessary by review of the eligibility requirements—Completed at least three weeks prior to proposed preliminary exam date. Approved by advisory committee, URSC program coordinator, LAUP department head, and OGAPS. When exam date is determined, the department will announce the schedule, as approved by the student's chair, URSC program coordinator and department head.
3. Take the preliminary exam—The Preliminary Examination is taken after the coursework is completed (or at least within 6 hours of completing coursework) and prior to the proposal defense. The format the Preliminary Exam is determined by the graduate student advisory committee and agreed to by the student. Typical formats include a) a 72 hour take home exam, b) an 8 hour sit down exam, or c) several exams in critical areas over a limited time period that may be substituted for one single exam over a longer duration. Alternatively, the student's dossier may be submitted where considerable extant expertise warrants. The student must defend the preliminary exam response(s) to the satisfaction of her or his faculty advisory committee. The oral defense of the Preliminary Examination is scheduled through the OGAPS. The format of the oral defense of the preliminary exam is arranged with the student's graduate committee but is not to exceed two hours.
4. Chair submits the Report of the Preliminary Examination and the Preliminary Examination Checklist to OGAPS.
5. OGAPS notifies the student and chair of any action necessary to rectify any deficiencies.

### **OGAPS Detailed Steps for Completing Preliminary Examination**

1. Establish advisory committee. Submit a degree plan.  
**When:** Prior to the deadline set by the student's college, and no later than 90 days prior to preliminary examination.  
**Approved by:** Advisory committee, department or intercollegiate faculty chair, and Office of Graduate Studies and Professional Studies (OGAPS).
2. Complete English language proficiency requirements (if applicable), and course work detailed on degree plan.  
**When:** Before Preliminary Examination.
3. Student and chair review eligibility requirements for the Preliminary Examination using the "Preliminary Examination Checklist."  
**When:** Several weeks before the proposed date of the Preliminary Examination. Check list must be signed by chair and department head, or intercollegiate faculty chair.

4. Student checks the availability of committee members.  
**When:** Several weeks before the proposed date of the Preliminary Examination.
5. Student prepares and submits any petitions found necessary by the review of the eligibility requirements.  
**When:** At least three weeks before the proposed date of the Preliminary Examination.  
**Approved by:** Advisory committee, department head or intercollegiate faculty chair, and OGAPS.
6. When exam date is determined, the department may announce the schedule.  
**Approved by:** Committee Chair, department head or intercollegiate faculty chair.
7. Chair submits the Report of the Preliminary Examination and the Preliminary Examination Checklist to OGAPS.  
**When:** Within 10 working days of the date of the scheduled oral examination and no later than 14 weeks prior to the final defense date.  
**Approved by:** Advisory
8. Office of Graduate Studies notifies the student and chair of any actions necessary to rectify any deficiencies.  
**When:** Upon receipt of the report of the doctoral Preliminary Examination.

### **OGAPS Preliminary Examination Requirements**

The student's major department (or chair of the intercollegiate faculty, if applicable) and his or her advisory committee may require qualifying, cumulative or other types of examinations at any time deemed desirable. These examinations are entirely at the discretion of the department and the student's advisory committee.

**The Preliminary Examination is required.** The Preliminary Examination for a doctoral student shall be given no earlier than a date at which the student is within approximately 6 credit hours of completion of the formal course work on the degree plan (i.e., all course work on the degree plan except 681, 684, 690 and 692 courses). The student is strongly encouraged to complete the Preliminary Examination no later than the end of the semester following the completion of the formal course work on the degree plan. The Office of Graduate and Professional Studies must receive the results of the Preliminary Examination at least 14 weeks prior to the final examination date. The examination shall be oral and written unless otherwise recommended by the student's advisory committee and approved by the OGAPS. The written part of the examination will cover all fields of study included in the student's degree plan. Each member of the advisory committee is responsible for administering a written examination in his or her particular field, unless he or she chooses to waive participation in this part of the examination. Two or more members of the advisory committee may give a joint written examination. One or more members may require a student to take a departmental or intercollegiate faculty examination to supplement or replace a written examination. Each written examination must be completed and reported as satisfactory to the chair of the advisory committee before the oral portion of the examination may be held. In case any written examination is reported unsatisfactory, the entire advisory committee must agree (1) to proceed with the oral portion of the Preliminary Examination, or (2) to adopt another course of action regarding the unsatisfactory written examination. Either procedure is subject to the approval of the OGAPS.

Prior to scheduling the Preliminary Examination with the other committee members, the committee chair will review with the student eligibility criteria, using the Preliminary Examination Checklist to ensure the student is ready for the examination. The following list of eligibility requirements applies.

- The student is registered at Texas A&M University for the semester or summer term during which any portion of the Preliminary Examination may fall. If the entire examination falls between semesters, then the student must be registered for the term immediately preceding the examination.
- An approved degree plan was on file with the Office of Graduate Studies at least 90 days prior to the first written examination.
- The student's cumulative GPR is at least 3.000.
- The student's degree plan GPR is at least 3.000.
- All English language proficiency requirements have been satisfied.
- All committee members have scheduled or waived the written portion and agreed to attend the oral portion of the examination or have found a substitute. Only one substitution is allowed and it cannot be for the committee chair.
- At the end of the semester in which the exam is given, there are no more than 6 hours of course work remaining on the degree plan (except 681, 684, 690, 691 and 692). The head of the student's department (or Chair of the Intercollegiate Faculty, if applicable) has the authority to approve a waiver of this criterion.
- The time span from the first written examination to the oral is **no more than three weeks**. (In cases of department-wide written examinations, this criterion is not applicable.) The head of the student's department (or chair of the intercollegiate faculty, if applicable) has the authority to approve a waiver of this criterion.

Once all requirements are met, departments or interdisciplinary degree programs may announce the schedule of the written and oral parts of the examination.

The chair of the student's advisory committee is responsible for making all written examinations available to the members of the advisory committee at or before the oral portion of the examination. A positive vote by all members of the graduate committee with at most one dissension is required to pass a student on his or her exam. A department or interdisciplinary degree program can have a stricter requirement provided there is consistency within all degree programs within a department or interdisciplinary program.

The chair of the advisory committee will report the results of the Preliminary Examination to the Office of Graduate and Professional Studies, using the Report of Doctoral Preliminary Exam form, and the Preliminary Examination checklist. Both forms must have appropriate signatures and should be submitted to the OGAPS within 10 working days of the scheduled examination.

**After passing the required preliminary oral and written examinations for the doctoral degree, the student must complete all remaining requirements for the degree with four calendar years. Otherwise, the student will be required to repeat the Preliminary Examination.**

A student who has failed the Preliminary Examination may be given one re-examination with the approval of the student's advisory committee. Adequate time should be given to permit the student to address the inadequacies emerging for the first examination (normally six months). The student and the advisory committee should jointly negotiate a mutually acceptable date for this purpose.

**A student must be registered at Texas A&M University for a minimum of one semester credit hour in the semester or summer term in which they will take any portion of the Preliminary Examination.**

### **e. Defend Dissertation Proposal**

**Submit Proposal for dissertation—approved by student's graduate advisory committee, URSC program coordinator, LAUP department head, and OGAPS.**

#### **OGAPS Dissertation Proposal Requirements**

The general field of research to be used for the dissertation should be agreed on by the student and the advisory committee at their first meeting, as a basis for selecting the proper courses to support the proposed research.

As soon thereafter as the research project can be outlined in reasonable detail, the dissertation research proposal should be completed. The research proposal should be approved at meeting of the student's advisory committee, at which time the feasibility of the proposed research and the adequacy of available facilities should be reviewed. The approved proposal signed by all members of the student's advisory committee, the head of the student's major department (or chair of the intercollegiate faculty, if applicable), must be submitted to the Office of Graduate and Professional Studies at least 15 working days prior to the submission of the Request for the Final Examination.

Compliance issues must be addressed if graduate student is performing research involving human subjects, animals, infectious biohazards and recombinant DNA. A student involved in these types of research must check with the Office of Research Compliance, Office of the Vice President for Research at 979-845-8585 to ensure that all compliance responsibilities are met.

#### **OGAPS Admission to Candidacy Requirements**

To be admitted to candidacy for a doctoral degree, a student must have: (1) completed all formal course work on the degree plan with the exception of any remaining 681, 684, 690 and 691, (2) a 3.0 Graduate GPR of at least 3.0 with no grade lower than C in any course on the degree plan, (3) passed the Preliminary Examination (written and oral portions), (4) submitted an approved dissertation proposal, (5) met the residence requirements. The final examination will not be authorized for any doctoral student who has not been admitted to candidacy.



## **f. Complete Residence**

Complete residence requirement—Completed prior to scheduling oral defense as approved by OGAPS.

## **g. Apply for Degree**

**Apply for degree pay graduation fee—Completed the first week of the final semester as per graduate calendar.**

### **OGAPS Application for Degree Requirements**

Graduate degrees are conferred at the close of each regular semester and 10-week summer semester. A candidate for an advanced degree who expects to complete his/her work at the end of a given semester must apply for graduation by submitting the electronic application for degree to the Office of the Registrar and by paying the required graduation fee at the Fiscal Department no later than the Friday of the second week of the fall or spring semester or the Friday of the first week of the first summer term.

## **h. Defend Final Dissertation**

**Submit request for permission to hold and announce Final Examination—must be received by OGAPS at least 10 working days prior to requested exam date as approved by advisory committee, URSC program coordinator, LAUP department head and OGAPS.**

### **OGAPS Final Examination/Dissertation Defense Requirements**

The candidate for the doctoral degree must pass a final examination by deadline date announced in the “Office of Graduate and Professional Studies Calendar” each semester or summer term. The doctoral student is allowed only one opportunity to take the final examination. No student may be given a final examination unless his or her current official cumulative and degree plan **GPRs are 3.000 or better and he or she has been admitted to candidacy. No unabsolved grades of D, F, or U for any course can be listed on the degree plan.** To absolve a deficient grade, a student must have repeated the course work and have achieved a grade of C or better. A student must have completed all course work on his or her degree plan with the exception of 691 (Research) or 692 (Professional Study) hours. The student must be registered for all remaining hours; no hours remain to be taken on the degree plan. The Preliminary Examination results must have been submitted to OGAPS 12 weeks prior to the defense. The research proposal must have been submitted to the OGAPS 15 working days prior to the date of the final examination/defense. Any changes to the committee must be approved by OGAPS prior to the approval of the Final Examination. The request for permission to hold and announce the Final Examination must be submitted to OGAPS a **minimum of 10 working days in advance** of the scheduled date. Examinations/Defenses that are not completed and reported satisfactory to the Office of Graduate and Professional Studies within 10 working days of the scheduled

examination/defense date will be recorded as failures. **OGAPS must be notified in writing of any cancellation.**

The student's advisory committee will conduct this examination. **The Final Examination is not to be administered until the dissertation or record of study is available in substantially final form to the student's advisory committee, and all concerned have had adequate time to review the document.** Additionally, all English Language Proficiency requirements must be satisfied prior to scheduling the examination. Whereas the Final Examination may cover the broad field of the candidate's training, it is presumed that the major portion of the time will be devoted to the dissertation and closely allied topics. **Persons other than members of the graduate faculty may, with mutual consent of the candidate and major professor, be invited to attend the Final Examination for an advanced degree.** A positive vote by all members of the graduate advisory committee with at most one dissension is required to pass a student on his or her exam. A department can have a stricter requirement provided there is consistency within all degree programs within a department. Upon completion of the questioning of the candidate, all visitors must excuse themselves from the proceedings.

The advisory committee will submit its recommendation on the appropriate Report of the Final Examination for Doctoral Candidates form to OGAPS regarding acceptability of the candidate for the doctoral degree. A student must be registered in the University in the semester or summer term in which the final examination is taken.

## **i. Upload Final Dissertation with Thesis Office**

**Upload an approved final copy of dissertation as a single PDF file—As per OGAPS deadlines published in calendar, as approved by advisory committee, URSC coordinator, LAUP department head and OGS.**

### **OGAPS Dissertation Requirements**

The ability to perform independent research must be demonstrated by the dissertation, **which must be the candidate's original work.** Whereas acceptance of the dissertation is based primarily on its scholarly merit, it must also exhibit creditable literary workmanship. The format of the dissertation must be acceptable to OGS. Guidelines for the preparation of the thesis are available in the *Thesis Manual*, which is available online at [thesis.tamu.edu](http://thesis.tamu.edu).

After successful defense and approval by the student's advisory committee and the head of the student's major department (or chair of the intercollegiate faculty, if applicable), a student must submit hi/her dissertation to the Thesis Office in electronic format as a single PDF file. The PDF file must be uploaded to the Thesis Office Web site, [thesis.tamu.edu](http://thesis.tamu.edu). Additionally, a signed approval form must be brought or mailed to the Thesis Office. Both PDF file and the signed approval form are required by the deadline.

Before a student can be “cleared” by the Thesis Office, a processing fee must be paid at the Fiscal Department. This processing fee includes a charge for microfilming services and inclusion in Digital Dissertation database through the Texas A&M Libraries.

**A dissertation that is deemed unacceptable by the Thesis Office because of excessive corrections will be returned to the student's department head or chair of the intercollegiate faculty.** The manuscript must be resubmitted as a new document, and the entire review process must begin anew. The original submittal deadlines must be met during the resubmittal process in order to graduate.

# RESOURCES

## FUNDING OPPORTUNITIES

All students accepted and admitted into the URSC program are eligible for financial aid. There are two common ways for students to receive financial aid.

### Assistantships

A graduate assistantship – teaching (GAT), non-teaching (GANT), or research (GAR), is available to a qualified student on a competitive basis. An assistantship requires up to 20 hours a week. Appointment to an assistantship is normally for 9 months. Many assistantships are awarded through the applicant's major department, but additional assistantships are awarded from individual faculty members with external funding. The table below shows the number of assistantships granted from both sources over the past five years for our URSC PhD Students.

### Fellowships

A few competitive fellowships are available for doctoral students. Most consistently, the program nominates students for Merit Fellowships which are awarded by URSC, the College, and Diversity Fellowships, which are awarded by the Office of Graduate and Professional Studies. Ordinarily, a graduate student holding a fellowship is not required to perform any services.

A limited number of student worker positions may be available. These provide an hourly wage for work done in the department or for an individual faculty member. No additional benefits (tuition, fees) are provided.

The table below shows the number of doctoral students funded and the total amount of funding from both the department and faculty researchers over the past five years.

**Table. 6. Amount of funding for doctoral students.** Source: Departmental records.

	Department		Faculty Research Projects	
	Count	Funding (\$)	Count	Funding (\$)
<b>2013</b>	16	\$ 164,375.00	8	\$ 55,975.00
<b>2014</b>	18	\$ 189,916.72	9	\$ 87,541.72
<b>2015</b>	16	\$ 169,596.40	12	\$ 128,375.00
<b>2016</b>	15	\$ 173,175.00	16	\$ 223,630.00
<b>2017</b>	18	\$ 249,250.00	12	\$ 156,576.00
<b>2018</b>	22	\$ 344,317.02	15	\$ 209,966.83

### Scholarships

Applications for departmental scholarships are accepted in January of each year. Students must apply to be considered for scholarships.

## Other Financial Supports

### **Graduate Student Research and Presentation (RAP) Travel Award from OGAPS:**

RAP Travel Award provides graduate students with educational and professional development opportunities through reimbursing up to \$750 for travel expenses associated with academic conferences and research projects in the United States and abroad.

<https://ogaps.tamu.edu/Buttons/Funding-Opportunities/Research-and-Presentation-Award-Guidelines>

### **Dissertation fellowships from OGAPS:**

This fellowship is intended to support doctoral students in the final analysis of the research topic and the final writing of the dissertation, and will be awarded to 10 students in the fall and 5 students in the spring.

<https://ogaps.tamu.edu/Buttons/Funding-Opportunities/Dissertation-Fellowship>

### **MIRC Ph.D. Grants from the Mays Innovation Research Center, Texas A&M University**

The Mays Innovation Research Center (MIRC), an interdisciplinary center at Texas A&M, is announcing research grants for Ph.D. students at Texas A&M. The mission of the MIRC is to understand the true nature of innovation.

<https://mays.tamu.edu/innovation-research-center/grants/>

### **Open Access to Knowledge Fund (OAKFund) from the library:**

The Open Access to Knowledge Fund (OAKFund) at Texas A&M University underwrites publication charges for scholarly journal articles, book chapters, and books published in fully Open Access publications.

[https://library.tamu.edu/services/scholarly\\_communication/Open\\_Access/oakfund.html](https://library.tamu.edu/services/scholarly_communication/Open_Access/oakfund.html)

### **PIVOT Funding Database Available Through the Library:**

Pivot allows research administrators, research development professionals, and individual faculty members the ability to search and track the right research funding opportunities — quickly and easily. It provides global and local connections that strengthen research by exploring new avenues for funding and collaboration—for faculty, staff researchers, and graduate students.

<https://vpr.tamu.edu/initiate-research/funding-databases>

### **ACSP Student Travel to the Annual Conference from ACSP:**

ACSP travel scholarships will provide financial support to doctoral students to attend the ACSP Conference. Each award includes a student conference full registration waiver plus \$500 USD in cash to defray travel expenses to the conference. Awards are granted to those for whom conference attendance would otherwise not be possible.

[https://www.acsp.org/page/AwardACSPTravel#:~:text=For%202020%2C%20fourteen%20\(14\),travel%20expenses%20to%20the%20conference](https://www.acsp.org/page/AwardACSPTravel#:~:text=For%202020%2C%20fourteen%20(14),travel%20expenses%20to%20the%20conference)

### **Student Award for Research or Creative Scholarship from Council of Educators in Landscape Architecture (CELA):**

This award recognizes students' outstanding performance in research or creative scholarship.

<https://thecela.org/student-award/>



**Student Scholarships and Fellowships from American Society of Landscape Architect (ASLA):**  
<https://www.asla.org/scholarships.aspx>

**Texas Planning Award from American Planning Association Texas Chapter:**

The APA Texas Planning Awards Program recognizes individuals, organizations and communities for outstanding contributions to planning in Texas.  
<https://texas.planning.org/community-outreach/chapter-awards/>

**Academic Excellence Award from Texas A&M University:**

This Academic Excellence Award is intended to recognize, encourage and assist currently enrolled undergraduate, graduate and professional students who have excellent scholastic records, campus and community activities, leadership positions, work experience and, in some cases, evidence of financial need.  
<http://scholarships.tamu.edu/Apply-for-Scholarships>

**International Student Services Scholarships:**

Scholarships are available to currently enrolled international continuing students through the University Scholarship Application. This application is available twice a year for International Student Services Scholarships.  
<https://scholarships.tamu.edu/CONTINUING-STUDENTS/University-Scholarships#0-InternationalStudentServicesScholarships>

## **SELECTED FACULTY EXTERNAL GRANTS**

- "CAREER: Estimating and Addressing Disaster Survivors' Unmet Needs: A Social Vulnerability and Social Infrastructure Approach." (2020 – 2025), **National Science Foundation**, PI: Michelle Meyer.
- "Fighting Obesity by Reinventing Public Transportation: A Natural Experiment." (2018 – 2023), **National Institute of Health**, multi-PI: Chanam Lee, Wei Li, Marcia Ory.
- "ENDEAVR: Envisioning the Neo-traditional Development by Embracing the Autonomous Vehicles Realm" (2018 – 2021), **W.M. KECK Foundation**, PI: Wei Li; Co-PI: Chanam Lee
- "Green infrastructure plans for flood and storm water hazards reduction in the Texas coastal region" (2018 – 2021), **Texas Sea Grant and National Oceanic and Atmospheric Administration**, PI: Van Zandt, S. Co-PIs: Newman, G & Woodruff, S.
- "Comprehensive tools and models for addressing exposure to mixtures during environmental emergency-related contamination events" (2017 – 2022), **National Institute of Environmental Health Sciences**, Director: Rusyn, I.; PI: Horney, J.; Co-PI: Newman, G.
- "CRISP Type 2/Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities" (2016 – 2020), **National Science Foundation**, PI: W.G. Peacock; Co-PIs: N. Rosenheim, and

D. Goldberg, B. Ellingwood, E. Chong, and J. van de Lindt E. Chen, P. Gardoni and S. Chaudhuri and P. Gardoni and S. Chaudhuri.

- "Anatomy of Coupled Human-Infrastructure Systems Resilience to Urban Flooding: Integrated Assessment of Social, Institutional, and Physical Networks." (2018 -2022), **NSF CRISP 2.0**. PI: Ali Mostafavi. Co-PIs: Philip R Berke, Bjorn Birgisson, Arnold Vedlitz, Sierra Woodruff.
- "Coastal Flood Visualization with Mobile Virtual and Augmented Realities for Risk Communication", (2021-2022), **T3: Texas A&M Triads for Transformation**, PI: David Retchless, Co-PIs: Xinyue Ye, Galen Newman.
- "Studying Anti-Social Behavior in Social Media" (2020-2025), **SSHRC (Social Sciences and Humanities Research Council) Insight Grants, Canada**, PI: Anatoliy Gruzd, Co-PI: Xinyue Ye.
- "Understanding the Impact of Expansion of Health Insurance Coverage in Texas on Financial Well-being", (2021-2023), **TAMU X-Grant**, PI: Benjamin Ukert, Co-PIs: Benjamin Klopach, Korok Ray, Xinyue Ye.
- "Building Equitable Safe Streets for All: Data-Driven Approach and Computational Tools" (2021-2023), **USDOT National University Transportation Center**, PI: Bahar Dadashova, co-PI: Xinyue Ye
- "Category II: ACES - Accelerating Computing for Emerging Sciences" (2021-2026), **National Science Foundation**, PI: Honggao Liu, Co-PI: Xinyue Ye
- "CRISP Type 2/Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities." (2016-2022), **National Science Foundation**, PI: Nathanael Rosenheim, Co-PIs: Walter Gillis Peacock, Daniel Goldberg and John Patrick Casellas Connors.
- "NIST Center for Risk-Based Community Resilience Planning." (2020-2025). **Colorado State University and National Institute of Standards and Technology**, PI: Shannon Van Zandt; Co-PIs: Walter Gillis Peacock, Nathanael Rosenheim, Michelle Meyer, and Maria Koliou.
- "A5: The Augmented Atlas for (VR and AR Enhanced) Architecture and Landscape Architecture Abroad." (2019-2022); **Texas A&M 2019 Global Engagement Grants**, PI: Dongying Li; Co-PIs: Galen Newman, Amir Behzadan, Shinjiro Sueda, Ture Petersenn.
- Community Engagement Core. "Comprehensive tools and models for addressing exposure to mixtures during environmental emergency-related contamination events." (2017-2022), **National Institute of Environmental Health Sciences** P42ES027704-01, Director, Rusyn, I.; PI – CEC Newman, G. & Co-PI Horney, J.
- "Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston" (2020-2023), **Environmental Protection Agency**, PIs: Newman, G. & Chiu, W
- "Green infrastructure plans for flood and storm water hazards reduction in the Texas coastal region" (2018-2021), **Texas Sea Grant and National Oceanic and Atmospheric Administration**, PI: Plotkin, P. & Co-Pis: Van Zandt, S., Newman, G. & Woodruff, S.
- "Synchronizing Decision-Support via Human- and Social-centered Digital Twin Infrastructures for Coastal Communities." (2021-2023), **National Science Foundation Eager Program**, PI: Ye, X; Co-PIs: Newman, G., Ham, Y., Retchless, D., & Zou, L.

- “Understanding Repeat Disruption to Small, Minority-Owned, and Rural Businesses with Applications to Economic Diversification and Organizational Resilience in the Gulf Coast” (2021-2023), **NOAA**, PI: Maria Watson; Michelle Meyer, Rebekka Dudensing, Joy Semien
- “Focused CoPe: Fundamental research to inform holistic decision-making for historically underrepresented communities impacted by coastal hazards” (2021-2026), **National Science Foundation**, PI: Maria Koliou; Co-PIs: Anand Puppala, James Kaihatu, Petros Sideris, Siyu Yu.
- “Understanding the Response to USDA Food Aid among Minority Residents and Farmers in COVID-19” (2021), **PRISE: Texas A&M University & Prairie View A&M University**, PI: Noel Estwick; Co-PIs: Rebekka Dudensing, Michelle Meyer.
- “Health Risks and Hazard Perception from Airborne Toxic Metals to Vulnerable Populations Neighboring the Houston Ship Channel” (2020-2022), **TiCER Pilot Project competition for 2020**, PI: Shankararaman Chellam, Co-PIs: Deidra Davis, Natalie Johnson, Itza Mendoza-Sanchez.
- “RAPID: Disparities in Business and Nonprofit Impact and Recovery from Hurricane Harvey, COVID-19, and Hurricane Laura” (2020-2021), **National Science Foundation**, PI: Maria Watson; Co-PIs: Rebekka Dudensing, Michelle Meyer.
- “Transference Vulnerability: Linking Social, Health And Built Environment Data With Covid-19 Exposure” (2020-2022), **T3: Texas A&M Triads for Transformation**, PI: Siyu Yu; Co-PIs: Gang Han, Andrea Roberts.
- “The Center for Risk-Based Community Resilience Planning” (2015-2025), **National Institute for Standards and Technology**, PI: Shannon Van Zandt; Co-PIs: Michelle Meyer, Nathanael Rosenheim, Walter Gillis Peacock.

## RESEARCH CENTERS

Nearly all doctoral students work through one of the College's research units. The units that are primarily associated with the URSC program include:

### **The Hazard Reduction & Recovery Center** (Director: Michelle Meyer)

The Hazard Reduction and Recovery Center (HRRC) was established at Texas A&M University in 1988. HRRC researchers focus on hazard analysis, emergency preparedness and response, disaster recovery, and hazard mitigation. Researchers study the full range of natural and technological hazards.



### **The Center for Housing & Urban Development** (Director: Galen Newman)

CHUD's mission is to provide leadership as a center of inquiry for the creation of sustainable housing and communities. Sustainable communities are those that feature vibrant economies, offer a choice of housing and transportation modes, are closer to jobs, schools, shopping, and recreation, are less energy dependent, and help protect clean water and air (U.S. Department of Housing and Urban Development).



CHUD supports its mission through research and engagement in the following focal areas:

- Sustainable landscape and urban planning, design, and development practices; and
- Innovative green building techniques and technologies.

## The Institute for Sustainable Communities

The Texas A&M Institute for Sustainable Communities (IfSC) is the university's focal point of interdisciplinary sustainable community research, engagement and high impact service learning. The Institute is the go-to place for A&M faculty, staff, and students to collaborate on work that crosses sectors and disciplines, advancing solutions that link knowledge to action, and solves critical societal challenges of today and tomorrow.



Working on campus and around the world, we strive to support development of sustainable communities and cities that seek *balance between human and environmental needs* of people today and of generations to come; provide *fair and equitable access* to resources to improve the development of human capabilities and wellbeing; engage in *civil engagement and participatory, democratic decision-making*; and include *adaptive capacity* to survive, respond and grow in the face of expanding physical, social and economic threats.

## The Center for Health Systems & Design (Director: Ray Pentecost)

Specialty labs: Design Research for Active Living (Director: Chanam Lee);

Microclimatic-Design Research Group (Director: Robert Brown)

Texas A&M University's Center for Health Systems & Design is home to the world's largest collection of interdisciplinary faculty, students, and affiliated professionals committed to research and education about environments for healthcare.

The Center for Health Systems & Design is a creation of the Colleges of Architecture and Medicine at Texas A&M University intended to promote research, innovation and communication in an interdisciplinary program that focuses on health facility planning and design. The research interests of faculty fellows range from the effects of stress on patients' health and wellbeing, to the design of healing environments for neonatal patients, children, the elderly, people who live in the Texas colonias and AIDS patients. The primary activities of the Center include: a professional associates program, curriculum development, health lecture series and support of health-related research and design projects.





## **The Center for Heritage Conservation (Director: Kevin T. Glowacki)**

The Center for Heritage Conservation was authorized in 2005 as a professional center for interdisciplinary research and service projects on all aspects of built and natural heritage. Since 1977, Texas A&M University has been recognized for academic and research programs dedicated to the better understanding of our historic legacy.



The Center supports research of planned and built environments with particular emphasis on their continued use and care. Investigations are performed through sponsored projects and professional and academic graduate studies. Research findings are disseminated to the public through publications and presentations in academic and professional journals and conferences.

## **STUDENT ORGANIZATIONS**

### **Urban and Regional Science Student Organization (URSSO)**

The URSSO, serving as the Urban and Regional Sciences doctoral student representative organization in the Department of Landscape Architecture & Urban Planning at Texas A&M University, exists to share and discuss individual and collective concerns pertaining to its members and to advocate for their interests in their graduate, academic and research, and professional and career development experiences.

The URSSO is established to provide an officially recognized graduate student organization at Texas A&M University in order to:

- Serve as a collective voice for students in the Department of Landscape Architecture and Urban Planning's Urban and Regional Sciences (URSC) doctoral program.
- Foster a climate in which all URSC doctoral students feel a sense of community and belonging.
- Establish open and effective communications among the URSSO members, other students, faculty, staff and the Graduate Student Council of Texas A&M.
- Encourage academic and research interactions among the URSSO members and between the members and faculty and staff at the department, college and university levels.
- Provide and coordinate professional and career development opportunities that will benefit URSSO members.
- Promote the prestige, reputation, and recognition of the Department of Landscape Architecture and Urban Planning at the local, state, national, and international levels.

<http://laup.arch.tamu.edu/academics/graduate/ursc/resources/ursc-handbook/urss/>

## UNIVERSITY WRITING CENTER

The University Writing Center, a unit of Undergraduate Studies, supports writing and public speaking for every Texas A&M student, with particular emphasis on supporting Writing and Communication courses. Our priorities are:

- To help graduate and undergraduate students practice the habits of mature composers of written and oral communication.
- To provide resources for faculty and Graduate Assistant Teachers for integrating best writing and oral communication pedagogy into courses across the disciplines and in the core curriculum.

The University Writing Center respects and addresses students' learning differences. We celebrate language diversity and growth, emphasizing the value and recognition of Global Englishes. Above all, we seek to provide a safe space of encouragement in the development of communication processes for every Aggie, affirming the multitudes of their backgrounds and experiences.

We embrace the university's diversity initiatives and continually assess our progress to maintain accountability to and recognition of our unique Aggie community. We work to foster a safe and welcoming environment by

- Attending national and regional conferences to learn about diversity, inclusion, equity, accessibility, and learning in higher education including the National Conference on Race and Ethnicity (NCORE), the International Writing Centers Association (IWCA), and the National Conference on Peer Tutoring in Writing (NCPTW);
- Actively recruiting tutoring and professional staff from underrepresented populations;
- Employing an ESL/ELL Specialist who conducts regular staff trainings for our consultants and collaborates with The Center for Teaching Excellence's English Language Proficiency (ELP) program and the Office of Graduate and Professional Studies;
- Emphasizing the best practices for creating course materials using the elements of universal design;
- Serving on university-level committees related to diversity and inclusion, such as the Academic Affairs Climate and Diversity Committee (AACDC), the African American Professional Organization (AAPO), and the University Staff Council;
- Completing certifications, trainings, and courses such as the College Reading and Learning Association program, Aggie Allies (supporting the LGBTQIA community), Step in Stand Up (supporting victims of sexual assault), QPR (suicide prevention), and Green Dot (ending violence).

<https://writingcenter.tamu.edu/>

## CENTER FOR TEACHING EXCELLENCE (CTE)

### **CTE Mission Statement**

Support the educational mission of Texas A&M University (TAMU) through evidence-based professional development opportunities promoting proven and innovative instructional approaches aligned with faculty and student success.

### **CTE Diversity Statement**

Recognize the integral value of diverse perspectives and inclusive teaching approaches; strive to ensure that all faculty, teaching assistants, and students, regardless of their identity, can excel.

### **Workshops**

It offers many workshops covering topics ranging from classroom management and course design to instructional technology and inclusive teaching. They are offered on a consistent schedule each semester. The workshops are informal and interactive and offer faculty and staff a safe environment to share and discuss their experiences. The Center also offers graduate student-specific workshops through the **Academy of Future Faculty program**.

<https://cte.tamu.edu/>

## INFORMATION TECHNOLOGY SERVICES (ITS)

Under the leadership of our IT Director, Chrissie Cordray, ITS strives to provide innovative solutions to the college in order to meet its teaching, research, and outreach goals.

### **Contact Information**

Office: Langford A122

Phone: 979.862.8584

Email: [helpdesk@arch.tamu.edu](mailto:helpdesk@arch.tamu.edu)

<http://www.arch.tamu.edu/inside/services/information-technology-services/index.html>

## INTERNATIONAL STUDENT SERVICES (ISS)

### **Contact Information**

Office: Pavilion Room 110, 1226 TAMU

Phone: 979.845.1824

Email: [iss@tamu.edu](mailto:iss@tamu.edu)

<http://iss.tamu.edu>

## OFFICE OF GRADUATE AND PROFESSIONAL STUDIES (OGAPS)

### Contact Information

Office: 112 Jack K. Williams Administration Building, 1113 TAMU

Phone: 979.845.3631

Email: [ogaps@tamu.edu](mailto:ogaps@tamu.edu)

[View OGAPS Staff](#)

<http://ogaps.tamu.edu>

## UNIVERSITY LIBRARY

TAMU library provides the systematic review service that is open to all Texas A&M University affiliated students, faculty, and staff working on systematic reviews, meta-analysis, scoping reviews, rapid reviews, and more.

### Contact Information

<https://library.tamu.edu/>

## OFFICE OF GRADUATE AND PROFESSIONAL STUDIES (OGAPS)

### Contact Information

Office: Pavilion Room 110, 1226 TAMU

Phone: 979.845.1824

<http://ogaps.tamu.edu/>

## SINGLE SIGN ON (SSO)

The Single Sign On (SSO) system is the Texas A&M System's one point of entry for HRConnect, TrainTraQ and other online applications. UINs are used as the login username. This service is provided by the A&M System's Business Computing Services.

Log in at [SSO.tamug.edu](https://ssos.tamug.edu)

Visit <https://employees.tamug.edu/orgdev/> to learn more about using SSO

## COVID-19 GUIDANCE

Required COVID-19 student training and certification, course guidance, student health service, COVID-19 testing and report. For more info:

**TAMU:** <https://www.tamu.edu/coronavirus/students.html>

**CDC COVID-19 Guidance:** <https://www.cdc.gov/coronavirus/2019-ncov/index.html>

**Johns Hopkins Coronavirus Resource Center:** <https://coronavirus.jhu.edu/>

## **OFFICE OF THE DEAN OF STUDENT LIFE**

Provide education, outreach, and support to students. For more information about student assistance services, legal services, media, women's resources, off-campus student services, new student & family program:

<https://studentlife.tamu.edu/>

## **KEEP LEARNING**

The current situation requires us to transition to teaching and learning online. For more information about moving learning online, internet resources and other frequently asked questions:

<https://keeplearning.tamu.edu/>

## **COUNSELING & PSYCHOLOGICAL SERVICES (CAPS)**

CAPS remains committed to supporting students' mental health and wellbeing. For more information about mental health services, diversity and inclusion, etc.

<https://caps.tamu.edu/>

## **GRADUATE STUDENT CAREER SERVICES**

Available to all current graduate students and former students. For more information about resume & CV review and advising, career guide and job posting, etc., visit:

<https://careercenter.tamu.edu/>



## **CENTER FOR INTEGRATION OF RESEARCH, TEACHING AND LEARNING (CIRTL)**

CIRTL Network is a coalition of over 35 research universities, of which Texas A&M University is a member. Through STEM-focused, CIRTL programming is open to ALL disciplines.

<http://cirtl.tamu.edu/>

## **MONEY EDUCATION (ME) CENTER**

ME center can help you make the best decisions on money management, buying home/car, saving and investing, etc.

<https://money.tamu.edu/>