Alexander Abuabara, Ph.D.

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Education

- Ph.D. in Urban and Regional Science, Texas A&M University, College Station (2022)
  Dissertation: Applications of Causal Bayesian Networks in Urban Planning
- Doctoral Studies in Production Engineering, Federal University of São Carlos, Brazil (2007–2009)
- Master of Science in Production Engineering, Federal University of São Carlos, Brazil (2006)
  Thesis: A Mixed Integer Programming Approach Applied to Multi-Period Industrial Planning
  (original in Portuguese)
- Bachelor of Science in Civil Engineering, University of São Paulo, Brazil (2001)

Academic Positions

Wm Michael Barnes Department of Industrial and Systems Engineering, Texas A&M University

- Instructional Assistant Professor (Fall 2025–present)

Department of Landscape Architecture and Urban Planning, Texas A&M University

- Instructional Assistant Professor (Fall 2024–Spring 2025)
- Postdoctoral Research Associate (Fall 2022–Spring 2024)

Teaching

- DAEN 427/ISEN 627 Decision and Risk Analysis
- DAEN 459 Capstone Senior Design Planning
- DAEN 460 Capstone Senior Design

Service

- Faculty Senator for the College of Architecture (Fall 2024–Summer 2025)

Papers

Google Scholar: https://scholar.google.com/citations?hl=en&user=r7vp11AAAAAJ

1. Abuabara, A., Morabito, R. (2009). Cutting Optimization of Structural Tubes to Build Agricultural Light Aircrafts. *Annals of Operations Research, 169* (1), 149-165.
2. Horney, J. Karaye, I., Abuabara, A., Gearhart, S., Grabich, S., Perez-Patron, M. (2020). The Impact of Natural Disasters on Suicide in the United States. *Crisis, 42* (5), 328-334.
3. Blanks, J., Abuabara, A., Roberts, A., Semien, J. (2021). Preservation at the Intersections: Patterns of Disproportionate Multihazard Risk and Vulnerability in Louisiana's Historic African American Cemeteries. *Environmental Justice, 14* (1), 1-14.

Research Projects Collaboration

- *Safeguarding Texas's Inland Rural Heritage: Collaborative Strategies for Resilience Against Natural Hazards* (Spring 2026), funded by the COA Small Grant Program and the Center for Heritage Conservation, Texas A&M University.
- *Hurricane Evacuation Studies:* (i) Southeastern Texas (2024–2025), (ii) Texas Coastal Bend (2018–2019), and (iii) Texas Valley (2014–2016), funded by the US Army Corps of Engineers (USACE) and the Federal Emergency Management Agency (FEMA).
- *Risk-Based Community Resilience Planning* (2022-2024), funded by Colorado State University from the National Institute of Standards and Technology (NIST).
- *The Adoption and Utilization of Hazard Mitigation Practices by Jurisdictions along Gulf and Atlantic Coasts* (2016–2018), funded by the National Science Foundation.