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## 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
- 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 '64 Department of Industrial and Systems Engineering, Texas A&M University

- Instructional Assistant Professor (2025-present)

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

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

### Teaching

- DAEN 427/ISEN 427 Decision and Risk Analysis
- DAEN 459 Capstone Senior Design Planning (Fall)
- DAEN 460 Capstone Senior Design (Spring)
- DAEN 300 Data Engineering Coding Experience I (Fall)
- DAEN 301 Data Engineering Coding Experience II (Spring)

### Service

- Faculty Senator, College of Architecture (2024-2025)

### Papers

<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

- Hurricane Evacuation Studies: (i) Southeastern Texas (2024-2025), (ii) Texas Coastal Bend (2018-2019), and (iii) Texas Valley (2014-2016). *US Army Corps of Engineers*.
- Risk-Based Community Resilience Planning (2022-2024). *National Institute of Standards and Technology*.
- The Adoption and Utilization of Hazard Mitigation Practices by Jurisdictions along Gulf and Atlantic Coasts (2016-2018). *National Science Foundation*.