

Alexander Abuabara

December 2018

School Address

Texas A&M University
Hazard Reduction & Recovery Center
College Station, TX
abuabara@tamu.edu

Permanent Address

College Station, TX
alexander@abuabara.com
<http://abuabara.com>

OBJECTIVE

Assistant professor position with core research and teaching in urban spatial analysis and analytic methods.

EDUCATION

Doctor of Philosophy, Urban and Regional Science
Texas A&M University Fall 2019 (expected)
GPA 3.93 – TOPIC: Risk Analysis, Bayesian Networks, Evacuation Planning
Master of Science, Production Engineering
Federal University of São Carlos, Brazil 2006
THESIS: *Tube Cutting Optimization: Application to the Aeronautics Industry*
Bachelor of Science, Civil Engineering
University of São Paulo, Brazil 2001

EXPERIENCE¹

Texas A&M University, Department of Urban Planning
Teaching 2017–present
• URPN 210 *Urban Analytic Methods I* (undergraduate-level). Co-Instructor Spring 2019
• URPN 210 *Urban Analytic Methods I* (undergraduate-level). Teaching Assistant Fall 2018
• URPN 201 *Evolving Cities* (undergraduate-level). Co-Instructor Spring 2017
• URSC 642 *Analytic Methods II* (graduate-level). Teaching Assistant Spring 2017
Texas A&M University, Hazard Reduction & Recovery Center
Graduate Research Assistant 2015–present
• Research on *Hurricane Evacuation Studies* and on the *Adoption and Utilization of Hazard Mitigation Practices by Jurisdictions along Gulf and Atlantic Coasts*.
• Worked on spatial analysis, geoprocessing, scalable workflow, identification of structures using satellite imagery and street maps, social vulnerability, and cross-sectional survey.
Federal University of São Carlos, Department of Production Engineering
Graduate Research Assistant 2004–2009
Cutrale Citrus Juice (Araraquara, Brazil & Aurbundale, FL)
Civil Engineer 2002–2005

PUBLICATIONS

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

Peer Reviewed Journals

- Abuabara, A.; Abuabara, A.; Tonchuk, C.A.L. *Comparative Analysis of Death by Suicide in Brazil and in the United States: Descriptive, Cross-Sectional Study*, Sao Paulo Med J (2017) 135(2):150-156. São Paulo: EBSCO DOI 10.1590/1516-3180.2016.0207091216

¹Selected

- Abuabara, A.; Morabito, R. *Cutting Optimization of Structural Tubes to Build Agricultural Light Aircrafts*, Ann Oper Res (2009) 169:149–165. Netherlands: Springer DOI 10.1007/S10479-008-0438-7
- Abuabara, A.; Morabito, R. *Mixed Integer Programming Models for the Planning of One Dimensional Metallic Pipe Cutting in the Aeronautics Industry*, Gestão & Produção (2008) 15(3):605-617. São Carlos: UFSCar/SciELO

Reports

- Peacock, W.G.; Wunneberger, D.; Abuabara, A.; Park, H.; Van Zandt, S. *Valley Study Area Hurricane Evacuation Study Vulnerability Analysis Report* (2016). <https://hrrc.arch.tamu.edu/research/HES/HES-VulnerabilityAnalysis.pdf>

PRESENTATIONS¹

WORKSHOPS

Invited Lectures

- TAMU GIS Day, *Introduction to QGIS* Nov 14, 2017; Nov 12, 2018
- TAMU GEOSAT, *Hurricane Evacuation Studies* October 18, 2018

CONFERENCES

Poster Paper with Peer Reviewed Abstracts

- Abuabara, A. & Peacock, W., *Importance of Mobile Homes to Determine Natural Hazard Evacuation Boundaries*, poster presented at the 46th Natural Hazards Workshop. July 2017. in Broomfield, CO
- Abuabara, A., *Considerations for Modeling Natural Hazard Evacuation of Mobile Neighborhoods and Mobile Parks in the Texas Valley Region*, poster presented in Urban Theory at the 42nd UAA Conference. March 2016. San Diego, CA
- Abuabara, A. & Morabito, R., *Pipe Cutting Optimization: Application to the Aeronautics Industry*, Annals of CLAIIO. November 2006. Montevideo, Uruguay

HONORS¹

- Full tuition assistantship. TAMU Hazard Reduction & Recovery Center 2015–present
- TAU SIGMA DELTA Honor Society. Member due to distinguished performance 2015–present
- GEOSTAT IBOT Open Source GIS Developers Summer School Prague, August 19-26, 2018
- NSF PIRE Coastal Flood Risk Reduction Research Travel Program Amsterdam, May 14-26, 2018

COMPUTER

R, Python, HTML scripting, QGIS, and L^AT_EX among many others

LANGUAGES

English, Spanish, and Portuguese

RESEARCH INTERESTS

GIS-based models, indicators of urban environment, and data and model inaccuracy

INTERESTS

Cartography, photography, Lego, board games, and last but not least bicycling

REFERENCES

- Dr. Walter G. Peacock (Chair/PI/HRRC Director) peacock@tamu.edu
- Dr. Zenon Medina-Cetina (Committee member/Professor) zmedina@civil.tamu.edu
- Dr. Douglas Wunneburger (Committee member/Co-worker) d-wunneburger@tamu.edu
- Dr. David Bierling (Co-worker) d-bierling@tti.tamu.edu

¹Selected