

JAMIE ELLEN PADGETT

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PROFESSIONAL PREPARATION

University of Florida, Gainesville, FL	Civil Engineering	B.S.	2003
Georgia Institute of Technology, Atlanta, GA	Civil Engineering	Ph.D.	2007

APPOINTMENTS

2014- Present	Associate Professor	Rice University, Department of Civil and Environmental Engineering, Houston, TX
2007- 2014	Assistant Professor	Rice University, Department of Civil and Environmental Engineering, Houston, TX
2008-2009	Consultant	Federal Highway Administration, Seismic Hazard Mitigation Program, Office of Infrastructure R&D, McLean, VA
2003-2007	Graduate Research Assistant	Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA
2002-2003	Undergrad. Research Assistant	University of Florida, Department of Civil and Coastal Engineering, Gainesville, FL
2001	Engineering Intern	St. Johns River Water Management District, Palm Bay, FL

PRODUCTS

Publications in Relation to Proposed Project

- [1] Ataei, N., Padgett, J. E. (2014) "Influential Fluid-Structure Interaction Modeling Parameters on the Response on Bridges Vulnerable to Coastal Storms," *Structure and Infrastructure Engineering*, DOI: 10.1080/15732479.2013.879602, March, 2014.
- [2] Ataei, N. and Padgett, J. E. (2012) "Limit State Capacities for Global Performance Assessment of Bridges Exposed to Hurricane Surge and Wave," *Structural Safety*, Vol. 41, pp. 73-81, March, 2013.
- [3] Li, Y., Ahuja, A., Padgett, J.E., (2012) "A Review of Methods to Assess, Design for, and Mitigate Multiple Hazards," *ASCE Journal of Performance of Constructed Facilities*, Vol. 26, No. 1, pp. 104-117, January/February, 2012.
- [4] Ghosh, J., Padgett, J. E, and Dueñas-Osorio, L. (2013). "Surrogate Modeling and Failure Surface Visualization for Efficient Seismic Vulnerability Assessment of Highway Bridges." *Probabilistic Engineering Mechanics*, Vol. 34, pp. 189-199, October, 2013.
- [5] Ataei, N. and Padgett, J. E. (2013). "Probabilistic Modeling of Bridge Deck Unseating during Hurricane Events," *ASCE Journal of Bridge Engineering*, Vol. 18, No. 4, pp. 275-286, April 2013.

Other Significant Publications

- [6] Padgett, J. E., Spiller, A., Arnold, C. (2012) "Statistical Analysis of Coastal Bridge Vulnerability based on Empirical Evidence from Hurricane Katrina," *Structure and Infrastructure Engineering*, Vol. 8, No. 6, pp. 595-605, June, 2012.
- [7] McCarthy E, Wright T, Padgett JE, DesRoches R, Bradford P. (2013), "Development of an Experimentally Validated Analytical Model for Modular Bridge Expansion Joint Behavior," *ASCE Journal of Bridge Engineering*, DOI:10.1061/(ASCE)BE.1943-5592.0000521, June, 2013.

- [8] Ghosh, J., Padgett, J. E. (2010) "Aging Considerations in the Development of Time-Dependent Seismic Fragility Curves," *ASCE Journal of Structural Engineering*, **Vol. 136, No. 12, pp. 1497-1511**, December, 2010.
- [9] Padgett, J. E., Ghosh, J., Dueñas-Osorio, L., (2013) "Effects of Liquefiable Soil and Bridge Modeling Parameters on the Seismic Reliability of Critical Structural Components," *Structure and Infrastructure Engineering*, **Vol. 9, No. 1, pp. 59-77**, January, 2013.
- [10] Stearns, M. and Padgett, J. E. (2012) "Impact of 2008 Hurricane Ike on Bridge Infrastructure in the Houston/Galveston Region," *ASCE Journal of Performance of Constructed Facilities*, **Vol. 26, No. 4, pp. 441-452**, July/August, 2012.

SYNERGISTIC ACTIVITIES

1. **Select Center and Professional Committee Service:** SEI Committee Chair on *Multiple Hazard Mitigation* (6/2010-); *Seismic Effects*, Member (10/07-), *Emerging Analysis Methods*, Subcommittee Member (12/07-); Technical Council on *Life-Cycle Performance, Safety, Reliability, and Risk of Structural and Infrastructure Systems*, Member (11/09-); ASCE Technical Council on Lifeline Earthquake Engineering (TCLEE) *Executive Committee* Member (2012-);
2. **Editorial Board Positions:** Associate Editor, *ASCE Journal of Bridge Engineering* (4/10-present); Associate Editor and Member of Founding Editorial Board, *Earthquakes and Structures* (11/09-present); Engineering Trial Editor, *Natural Hazards Review* (9/10-present)
3. **Student Mentoring Activities:** Faculty Advisor, EERI Rice Student Chapter (5/12-); Faculty Advisor, ASCE Rice Student Chapter (8/07-); Faculty mentor, Rice-Houston Alliance for Graduate Education and the Professoriate (AGEP) (3/08-12); Civil Scientist Outreach Mentor (8/11-)
4. **Diversity Enhancement Initiatives Spearheaded:** ADVANCE luncheon for CEE graduate students and post-docs related to women's pursuit of academic positions; Organizing committee for ADVANCE Negotiating the Ideal Faculty Position Workshop; AGEP enrichment sessions for underrepresented STEM students;
5. **Peer Reviewer:** Reliability Engineering and System Safety; Journal of Bridge Engineering; Journal of Structural Engineering; Engineering Mechanics; Engineering Structures Structural Safety; Oregon Transportation Research and Education Consortium; Earthquake Engineering and Structural Dynamics; Earthquake Spectra; Computer Aided Civil and Infrastructure Engineering; Natural Hazards Review; Probabilistic Engineering Mechanics.

COLLABORATIONS AND OTHER AFFILIATIONS

Collaborators and Co-Editors: Dr. Phil **Bedient**, Rice University; Dr. Murat **Dicleli**, Middle East Technical University; Dr. Reginald **DesRoches**, Georgia Institute of Technology; Dr. Leonardo **Duenas-Osorio**, Rice University; Dr. Yue **Li**, Michigan Tech; Dr. Jason **McCormick**, University of Michigan; Dr. Alan **O'Connor**, Trinity College Dublin; Dr. Patrick **Paultre**, University of Sherbrooke; Dr. Mauricio **Sanchez Silva**, Universidad de Los Andes; Dr. Abdollah **Shafieezadeh**, Ohio State University.

Graduate Advisor: Dr. Reginald **DesRoches**, Georgia Institute of Technology

Thesis Advisor and Post-Graduate Scholar Sponsor (2007-Present, Rice and Collaborative Universities): Graduated: Post-Grad (V. Bisadi); PhD Students (N. Ataei, J. Ghosh, J. Dukes, E. McCarthy, M. Ní Choine, K. Ramanathan, G.H. Siqueira, D. Taveres, Z. Wang); MS Students (B. Aygun; C. Arnold; K. Denneman; B. Fuselier; E. Nilsson). Current: PhD Students (M., Ebad Sichani, S. Kameshwar, N. Vishnu); MS Students (C. Tapia). Total number of graduate students: 18. Total number of post-graduate scholars: 1.