


## PERSONAL INFORMATION **Mohammad Aghababaei**

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Gender male | Date of Birth August 18, 1992 | Nationality Iranian

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### EDUCATION AND TRAINING |

2017-present	Doctor of Philosophy (Ph.D.) in Structural Engineering Texas A&M University, College Station, TX, USA, GPA: 4.00/4.00  <b>Research Topic:</b> Multi-Hazard Performance-Based Engineering in the Context of Post-Disaster System Functionality and Community Resilience
2014-2017	Master of Science in Structural Engineering Sharif University of Technology (SUT), Tehran, GPA: 17.75/20 4.00/4.00  <b>Research Topic:</b> Probabilistic Damage Models for Detailed Risk Analysis of Buildings with Reliability Methods
2010-2014	Bachelor of Science in Civil Engineering Isfahan University of Technology (IUT), Isfahan, Iran, GPA: 18.36/20 3.93/4.00

### RESEARCH INTEREST |

- Sustainable and resilient infrastructure systems
- Structural reliability and optimization
- Risk-based decision making
- Hazard and risk analysis
- Earthquake engineering and seismic risk mitigation

### PROFESSIONAL EXPERIENCE |

Sep 2017-present	Graduate Research Assistant Texas A&M University
Sep 2015-Jan 2017	Graduate Research Assistant Sharif University of Technology, Tehran, Iran
Jun 2013-Sep 2013	Apprentice Sakhen Co., Isfahan, Iran

### TEACHING EXPERIENCE |

Fall 2018	Aggie-challenge mentor Title: Understanding performance and enhancing resilience of coastal communities impacted by hurricanes.
Jan 2014 - Jul 2014	Teacher Assistant Isfahan University of Technology, Isfahan, Iran Structural Analysis II and Water Conveyance Systems

2018	NHERI RAPID Experimental Facility RAPID travel grant
2014	Isfahan University of Technology  Graduated Summa Cum Laude from the Bachelor's Program—Ranked 1st amongst all Civil engineering undergraduate students
2011-2014	Exceptional Talent Award for Four Years Scholarship for Talented Students
2014	Sharif University of Technology Admission for Graduate Study [awarded only to the topmost students based on their GPA during their undergraduate studies in the most prestigious universities of Iran. Students who get this admission are no longer required to take the nationwide M.Sc. entrance exam.]
2009	Ranked 1st amongst all students in Harati high school
2008	Selected student in experimental physics competition in the province of Isfahan

SKILLS

Software	MATLAB, OpenSees, Rt, ETABS, Abaqus, SeismoSignal, PACT, AutoCAD, R
Laboratory Skills	Three months experimental studies on light-weight concrete in the laboratory of IUT
Extracurricular Activities	Sports: swimming and badminton Voluntary activities: holding scientific competitions in IUT, fundraising for the poor
Programming Skills	C++: Object-oriented programming Proficient in developing in Visual Studio, GSL library, Qt  Developing models for Rt, which is a computer program for reliability and optimization analysis, available at <a href="http://www.inrisk.ubc.ca">www.inrisk.ubc.ca</a> . Some developments in Rt include implementing: <ul style="list-style-type: none"> <li>artificial ground motion generator</li> <li>proposed damage ratio, fatality, and population models</li> <li>framework developed for detailed risk analysis</li> </ul> <b>MATLAB:</b> Professional code development for research and study purposes, some of which are as follows: <ul style="list-style-type: none"> <li>Implementing artificial ground motion generator</li> <li>A FEM program for analysis of any plane problem with four different types of elements</li> </ul> <b>Tcl:</b> Developing structural response models in OpenSees for steel and reinforced concrete structures

PUBLICATIONS

Journals	Aghababaei, M. and Mahsuli, M., 2018. "Detailed seismic risk analysis of buildings using structural reliability methods." <i>Probabilistic Engineering Mechanics</i> , 53, pp.23-38.  Aghababaei, M., Koliou, M. and Paal, S.G., 2018. "Performance Assessment of Building Infrastructure Impacted by the 2017 Hurricane Harvey in the Port Aransas Region." <i>Journal of Performance of Constructed Facilities</i> , 32(5), p.04018069.  Aghababaei, M. and Mahsuli, M. "Component Damage Models for Detailed Seismic Risk Analysis using Structural Reliability Methods." <i>Structural Safety</i> (Accepted).
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