

# Arjun Jayaprakash

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## Research Interests

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- Seismic Design of Structures
- Reinforced Concrete and Structural Steel Design
- Performance Based Engineering
- Probabilistic Earthquake Engineering

## Experience

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### Research Experience.....

- **PhD Research Assistant** **Raleigh, NC**  
*NC State University* *June 2016 - Present*
- **Master's Student** **Raleigh, NC**  
*NC State University* *August 2014 - May 2016*

### Teaching Experience.....

- **Instructor (Statics)** **Raleigh, NC**  
*NC State University* *June 2019*
- **Co-Instructor (Statics)** **Raleigh, NC**  
*NC State University* *August 2018 - December 2018*
- **Instructor** **Sherman, TX**  
*Duke TIP* *May 2015 - July 2015*

### Work Experience.....

- **Structural Design Engineer** **Mumbai, India**  
*Satish Jain and Co.* *September 2012 - August 2013*
- **Graduate Engineer (Planning)** **Chennai, India**  
*Shapoorji Pallonji Co Ltd.* *August 2011 - September 2012*

## Technical Papers

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### Reviewed.....

- Jayaprakash, A., and Kowalsky, M., "Mean Balance Ratio to Characterize Ground Motion Loading History for Performance Based Design", *Proceedings of the 12th Canadian Conference on Earthquake Engineering (CCEE 2019)*, Quebec City, QC, Canada, June 17-20, 2019.
- Jayaprakash, A., Nau, J., Pour-Ghaz, M., and Kowalsky, M., "Structural Consequences of Grout Deterioration in the Grouted Shear Stud Connection", *Proceedings of the International Bridge Engineering Institute Conference*, Honolulu, Hawaii, USA, July 23-26, 2019.

## Education

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### Academic Qualifications.....

- **NC State University** **Raleigh, NC**  
*PhD Student, PhD GPA: 4.0* *2016–Present*
- **NC State University** **Raleigh, NC**  
*Master's Student, Graduated with 3.9 GPA* *2014–2016*
- **National Institute of Technology Calicut** **Calicut, India**  
*Undergraduate Student, Graduated with GPA 7.4/10* *2007–2011*

## Technical and Personal skills

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- **Programming Languages:** Proficient in: Matlab and R  
Also basic ability with: Tex, Tcl.
- **Industry Software Skills:** Matlab and (Advanced), R (Advanced), RUAUMOKO (Intermediate), SAP2000 (Intermediate), SEISMOSTRUCT, SEISMOSIGNAL and SEISMOMATCH (Intermediate), OpenSEES (Beginner), Most MS Office products (Advanced).
- **Other Skills:** Good presentation skills, Write well organized and structured reports.