

Sangjoon Park

1110 Jackson Street #923, Albany, CA 94706

Email: sangjoon@berkeley.edu

Phone: 510) 381-3437

• EDUCATION:

- **Ph.D** Civil and Environmental Engineering
UC Berkeley (August, 2005 - December, 2010)
Major in Structural Engineering, Minor in Mechanics and Statistics
- **M.S** Department of Architecture (Architectural Engineering)
Seoul National University, Korea (March, 1998 - February, 2000)
- **B.S** Department of Architecture
Seoul National University, Korea (March, 1994 - February, 1998)

• WORK EXPERIENCE:

- **Postdoctoral Researcher**, Dept. of Civil and Environmental Eng., UC Berkeley, Dec, 2010 - Present
- **Graduate Student Researcher**, Dept. of Civil and Environmental Eng., UC Berkeley, 2007 - 2010
- **Journal Reviewer**, ASCE Journal of Structural Engineering, Spring, 2008 - Present
- **Graduate Student Instructor**
E36(Undergraduate) Engineering Mechanics, Fall, 2007
CE222(Graduate) Finite Element Method, Spring, 2008
- **Senior Researcher**, Research Institute of Lotte E&C, March, 2000 - July, 2005
- **Teaching Assistant**, Dept. of Architecture, Seoul National University, Spring, 1997

• AWARDS:

- **Korean Government Scholarship**, Sept., 2005 - May, 2007
- **Anthony Graduate Fellowship**, Spring, 2008
- **CE Department Fellowship**, Fall, 2008
- **Best Presentation Award**, 7th CUEE and 5th ICEE Joint Conference, March, 2010, Tokyo, Japan
- **NSF Travel Grant Award** (twice)
7th CUEE and 5th ICEE Joint Conference, March, 2010, Tokyo, Japan
9th US National and 10th Canadian Conference on Earthquake Engineering, July, 2010, Toronto, Canada

• Computer Skills

- Comfortable with **MATLAB**, **OpenSees**, **AutoCAD**, **MIDAS**(structural analysis)
- Experience with **Fortran**, **C++**, **SAP2000**, **FEAP**, **BiSpec**

● **RESEARCH & PUBLICATIONS:**

▪ **Progressive Collapse Analysis of R/C Buildings Subjected to Earthquake Loading**

1. Simulation of RC Buildings with Flexibility of Non-Ductile Beam-Column Joints, *Earthquake Spectra, In process.*
2. Mosalam, K.M., Talaat, M, and Park, S., “Modeling Progressive Collapse in Reinforced Concrete Framed Structures”, *The 14th World Conference on Earthquake Engineering*, October, 2008, Beijing, China.
3. Mosalam, K.M., Park, S., and Günay, M.S., “Evaluation of an Element Removal Algorithm for Reinforced Concrete Structures Using Shake Table Experiments”, *Proc. 2nd Int. Conf. on Comp. Methods in Str. Dyn. & Earthquake Eng.* (COMPDYN2009), Rhodes Island, Greece, June,2009.

▪ **Seismic Assessment of Non-Seismically Designed R/C Buildings**

- **Development of Analytical Beam-Column Joint Model**

1. Park, S., and Mosalam, K.M., “Shear Strength Models of Exterior Beam-Column Joints without Transverse Reinforcement”, *PEER REPORT 2009/106*, University of California, Berkeley.
2. Park, S., and Mosalam, K.M., “Analytical Model for Predicting the Shear Strength of Unreinforced Exterior Beam-Column Joints”, *American Concrete Institute, Accepted for publication.*
3. Park, S., and Mosalam, K.M., “Parameters for Shear Strength Prediction of Exterior Beam-Column Joints without Transverse Reinforcement”, *Engineering Structures, In process.*

- **Testing Four Full Scaled R/C Corner Beam-Column Joints**

1. Park, S., and Mosalam, K.M., “Analytical and Experimental Study on RC Exterior Beam-Column Joints without Transverse Reinforcement”, *7th CUEE and 5th ICEE Joint Conference*, March, 2010, Tokyo Institute of Technology.
2. Park, S., and Mosalam, K.M., “Behavior of Reinforced Concrete Corner Beam-Column Joints without Transverse Reinforcement”, *9th US National and 10th Canadian Conference on Earthquake Engineering*, July, 2010, Toronto.
3. Hassan, W. M., Park, S., Lopez, R. R., Mosalam, K.M., and Moehle J. P., “Seismic Response of Older-Type Reinforced Concrete Corner Joints”, *9th US National and 10th Canadian Conference on Earthquake Engineering*, July, 2010, Toronto.

▪ **Engineering Risk Analysis: Building Collapse Fragility Assessment**

● **COURSE WORK: GPA=3.88/4.0**

Design	Reinforced Concrete Structures Steel and Composite Structures Earthquake Resisting Design Behavior of Reinforced Concrete	Mechanics	Advanced Mechanics Materials Structural Mechanics Mechanics of Solid
Analysis	Structural Analysis Theory Nonlinear Structural Analysis Dynamics of Structures Finite Element Method (two classes) Engineering Risk Analysis	Math & Statistic	Numerical Analysis (two classes) Advanced Introduction of Probability and Statistics (two classes)