

JENNA B. WONG, PhD, PE
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EDUCATION

December 2014	Ph.D. Structural Engineering	University of California, Berkeley
May 2009	M.S. Structural Engineering	University of California, Berkeley
May 2008	B.S. Civil Engineering	University of California, Berkeley

TEACHING EXPERIENCE

Lecturer, San Francisco State University (2014 - present)

Undergraduate level courses: “Intro to Engineering”, “Statics”, “Steel Structures”, “Matlab Modular Elective Course” and “Mechanical and Structural Vibrations”

Graduate level courses: “Engineering Communications” and “Principles of Earthquake Engineering”

Responsibilities include curriculum development and improvement of lectures, discussion exercises, homework assignments, and exams; holding regular office hours; participating in University activities; and maintaining current knowledge of subject area and teaching methodologies (including use of new technology for lectures).

Graduate Student Instructor, University of California, Berkeley (2010)

Graduate level course: “Earthquake Resistant Design”

Responsibilities included instructing weekly discussion and exam review sections, offering office hours, and developing homework solutions for approximately 60 graduate level students. Utilized different presentation media such as traditional lecture notes, overhead transparencies, and PowerPoint presentations.

Undergraduate Student Instructor, University of California, Berkeley (2008)

Undergraduate Course: “Computer Programming for Scientists and Engineers”

Responsibilities included development of homework assignments, lab projects, and exam problems and instruction of laboratory sections with approximately 40 students per section.

De-Cal Course (Student-Run): “How to be a Successful Engineering Student”

Responsibilities included developing and instructing a student run course for approximately 20 to 25 students; coordinate with other sections offered through the Tau Beta Pi honor society; develop hands-on interactive exercise; and maintain knowledge of interdisciplinary content as students came from a variety of backgrounds and engineering disciplines.

RESEARCH EXPERIENCE

Geological Postdoctoral Fellow, Lawrence Berkeley National Laboratories (2015-present)

Main project is focusing on developing a modern computational framework for the nonlinear seismic analysis of Department of Energy nuclear facilities and systems. Another project currently in development includes collaboration with PG&E designing a regional scale simulation and data system for enhanced earthquake hazard and risk assessment of electrical and gas systems. Advisor: Dr. David McCallen

Doctorate Research, *University of California, Berkeley (2009-2014)*

Seismic Isolation of Nuclear Power Plants. Investigating the applicability of seismic isolation and supplemental viscous damping to nuclear power plants with focus on seismic resilience and safety. Complex nonlinear time history analyses are conducted to assess overall seismic performance, especially floor response spectra, on characteristics of isolation system, modeling assumptions and ground motion characteristics. Identifying isolation parameters for the optimization of design to produce high performance levels of both structural response and secondary systems. Advisor: Dr. Stephen Mahin

PROFESSIONAL EXPERIENCE

Engineering Intern, *AECOM/URS (2014 - 2015)*

Support project teams by completing daily project related tasks; AutoCAD drafting and report writing; preliminary design and sizing of various building systems; scheduling; review of project deliverables and contract documents; and assistance in marketing for new CIP Projects.

Student Design Trainee, *San Francisco Public Utilities Commission (2006 – 2013)*

Performed engineering and project management tasks including design review and analysis, financial and schedule variances, constructability, value engineering, review of structural and civil contract documents, and review of change orders as a Field Contract Administrator for over a dozen projects part of the Water System Improvement Program (WSIP). Mentored high school and college students interested in science and engineering.

ACADEMIC SERVICE

Scholarship Committee Co-Chair, *Chinese American Institute for Engineers and Scientists (2014-2015)*

Actively participated in the creation of the scholarship application, distribution of notifications, interview process, and final selection of scholarship recipients based on academic merit and participation within their respective communities.

Coordinator, *Alumni Scholars Association Outreach Committee (2004-2008)*

Organizer and mentor of high school visits encouraging students from under-represented backgrounds to pursue studies at the college and graduate levels; Organizer and coordinator for programs providing one-on-one contact with UC Berkeley students and faculty to aide in their college and major decisions

Professional Liaison and Secretary, *Chi Epsilon, UC Berkeley Chapter (2007-2008)*

Organized and recruited local engineering and construction firms for career fairs and info sessions to give students information on working in industry and one-on-one contact with professionals in the field; Participated in community service projects such as Friends of the Urban Forest which helps plants trees in San Francisco neighborhoods

AWARDS AND HONORS

- ❖ University of California, Berkeley Chancellor Fellowship (2008)
- ❖ Honors from University of California, Berkeley College of Engineering (2005-2008)
- ❖ University of California Alumni Scholarship Leadership Award (2004-2008)
- ❖ T.Y. Lin Award from Chinese Chapter of the California Alumni Association (2006, 2007)
- ❖ Chinese-American Institute of Engineers and Scientists Scholarship (2007)
- ❖ Golden Key Honor Society (2007)

- ❖ Tau Beta Pi Honor Society (2007)
- ❖ American Public Works Association Scholarship (2006, 2007)
- ❖ Chi Epsilon Honor Society (2006)
- ❖ Commendation by Congresswoman Jackie Speier for Community Service Work (2004)

PROFESSIONAL DEVELOPMENT AND QUALIFICATIONS

- ❖ Professional Engineer, No. C83237
- ❖ Engineer-in-Training, No. 129140
- ❖ Fellow for the Summer Institute for Preparing Future Faculty (UC Berkeley)
- ❖ OSHA 10 Certification
- ❖ Certificate of Completion for Project Managers Principles Training
- ❖ Certificate of Completion for EPB Tunneling and Sealed Shaft Training
- ❖ Certificate of Completion for Carpentry – Rough Framing
- ❖ Certificate of Completion for Residential Wiring and Plumbing

PROFESSIONAL AFFILIATIONS

- ❖ Vice President, Chinese American Institute of Engineers and Scientists
- ❖ Member, American Society of Civil Engineers
- ❖ Member, Structural Engineers Association of Northern California
- ❖ Member, Seismological Society of America
- ❖ Member and Past Officer, Chi Epsilon
- ❖ Member, Tau Beta Pi