

CURRICULUM VITAE

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Education

- May 1995 **Ph.D. Civil Engineering** **University of California, Berkeley**
Major: Seismic design and analysis of concrete structures
Minors: Theoretical mechanics, numerical mathematics
Thesis Title: “Seismic Upgrading of Bridge Outrigger Knee Joint Systems”
Thesis advisor: Professor C. R. Thewalt
- May 1990 **M.S. Civil Engineering** **Carnegie-Mellon University**
Major: Computer-aided engineering
Thesis Title: “Neural Computing in Civil Engineering”
Thesis advisor: Professor D. R. Rehak
- March 1988 **Dipl.Ing. (B.S.) Civil Engineering** **University of Belgrade, Serbia**
Major: Design of concrete structures
Thesis Title: “Cable-Stayed Bridge over River Sava in Belgrade”
Thesis advisor: Professor S. Venecanin

Employment History

- 2008 – today **Professor**, CEE Department, University of California Berkeley
- 2006 – today **Director**, NEES Equipment Site laboratory, University of California Berkeley
- 2003 – 2008 **Associate Professor**, CEE Department, University of California Berkeley
- 2000 – 2003 **Assistant Professor**, CEE Department, University of California Berkeley
- 1995 – 1999 **Assistant Professor**, CEE Department, University of Michigan, Ann Arbor
- 1990 – 1995 **Graduate Research and Teaching Assistant**, CEE Department, University of California Berkeley
- 1988 – 1990 **Graduate Research Assistant**, CEE Department, Carnegie-Mellon University
- 1988 **Research Engineer**, Institute IMS, Belgrade, Yugoslavia
- 1987 **Graduate Teaching Assistant**, CEE Department, University of Belgrade

University of California Berkeley

January 2000–present

Professor of Civil Engineering

Performing teaching, research and service duties at the Department of Civil and Environmental Engineering. Teaching assignments include two undergraduate (Structural Engineering and Design of Steel Structures) and three graduate courses (Design of Steel and Composite Structures, Behavior of Steel Structures, and Experimental Methods in Structural Engineering). Recent and ongoing funded research projects address: 1) development of probabilistic performance-based seismic design tools for bridge design and evaluation; 2) development of probabilistic risk-reduction factor based evaluation procedures for nuclear facility structures; 3) development of hybrid simulation experimental methods for examination of seismic behavior of structures using NSF's George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES); 4) design and development of the *nees@berkeley* Equipment Site; 5) experimental evaluation and development of fragility models for reinforced concrete bridge columns, reinforced concrete shear walls, and steel moment connections and steel column base connections; 6) simulation of earthquake motion and response of structures in an urban region; 7) integration of acquired wireless sensor data into a framework for evaluation of the state of the structure after an extreme seismic or blast event; and 8) development of haptic interfaces for structural analysis software. Professional and department service duties are: Director (from 09/2006) and Associate Director (09/2004 to 09/2006) of the UC Berkeley NEES Equipment Site, member of the UC Berkeley Seismic Review Committee, UC Berkeley representative of the board of CUREE, Member of the UC Berkeley College of Engineering SUPERB committee, and EERI Student Chapter Faculty Advisor.

University of Michigan, Ann Arbor

July 1995–December 1999

Professor of Civil Engineering

Performed teaching, research and service duties at the Department of Civil and Environmental Engineering. Teaching assignments include two undergraduate courses (Solid and Structural Mechanics, and Reinforced Concrete Design) and three graduate courses (Dynamics of Structures, Finite Element Methods in Solid and Structural Mechanics, and Earthquake Engineering). Completed research projects include: 1) development of Free Flange fully restrained steel beam-to-column connection (FEMA-350); 2) examination of reasons for failure of steel moment connections; 3) investigation of seismic behavior and design options for moment-resistant column bases; and 4) applications of augmented reality for detecting and managing hazard imperceptible by human senses. Developed and conducted a short course on Dynamics of Structures at the Black and Veatch Ann Arbor office. Department service duties were: Associate Director of the Structures Laboratory, ASCE Student Chapter Faculty Advisor and member of the departmental Research Committee.

University of California Berkeley

January 1990–June 1995

Graduate Student

Completed requirements for a Ph.D. degree in Civil Engineering. Worked as a project engineer on a SAC Joint Venture project to experimentally analyze the pre-Northridge style steel beam-to-column connections with Professor E. P. Popov. Performed

experimental and theoretical analysis of the behavior of existing and upgraded bridge outriggers with Professor C. R. Thewalt. Wrote ArcS, a program for interactive nonlinear analysis of reinforced concrete cross sections. Worked as a Teaching Assistant for two graduate courses: Nonlinear Structural Analysis and Finite Element Methods.

Carnegie-Mellon University

August 1988–December 1989

Graduate Student

Completed requirements for an M.S. degree in Civil Engineering. Examined potential uses of the neural computing paradigm in engineering design and developed sample applications. Assisted in teaching of an undergraduate Structural Analysis course.

Awards and Honors

2006	ACI Fellow
2004	ASCE Walter L. Huber Civil Engineering Research Prize
2003	University of California Berkeley Presidential Chair Fellow Award
1999	NSF CAREER Award: Haptic Models of Large Structures
1999	ASCE/CERF CAREER Award
1997	University of Michigan Presidents Initiative Fund Award
1988	‘B. Korolija’ Prize for Outstanding Scholastic Achievement
1987	University of Belgrade Award for Outstanding Academic Achievement.

Professional Memberships

Earthquake Engineering Research Institute, Member, 1992

American Concrete Institute, Fellow, Member, 1993

American Society of Civil Engineers, Associate Member, 1995

American Institute of Steel Construction, Member, 1996

Structural Stability Research Council, Member, 1999

Consortium of Universities for Research in Earthquake Engineering (CUREE), Member, 2000

Network for Earthquake Engineering Simulation, Member, 2000