JUAN GARCIA

Champaign, IL · (217) 123-4567 · jgarcia@illinois.edu · www.juangarciaengineering.com

Education

PhD in Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, *Expected Fall 20XX*

Dissertation: "Visualizing Geotechnical Engineering Principles"
Advisor: Professor Ted S. Visor

BS in Civil Engineering, Universidad Nacional de San Juan (UNSJ), San Juan, Argentina, May 20XX

Research Interests

Investigating seismic force-resisting systems through simulations and visualization techniques to improve structural performance and earthquake resilience.

Research Experience

Graduate Research Assistant, Department of Civil Engineering, University of Illinois, 20XX–Present

- Designed and executed small-scale experiments to validate control algorithms for seismic force-resisting systems.
- Developed visualizations and numerical simulations to predict seismic damage in reinforced concrete and steel structures.
- Collaborated with faculty, staff scientists, and graduate students on multi-disciplinary research projects.

Undergraduate Consultant, Departamento de Ingeniería, UNSJ, 20XX

- Selected by the General Director of the City Planning Department of San Juan to assist with the structural and seismic assessment of the

Dr. Guillermo Rawson Hospital, one of the largest construction projects in a high-risk seismic zone.
- Performed nonlinear static analysis in accordance with FEMA 356 Prestandard for the Seismic Rehabilitation of Buildings.

Teaching & Mentoring Experience

Teaching Assistant, Introduction to Structural Engineering, College of Engineering, University of Illinois, Spring 20XX–Present

- Guided 15–25 first- and second-year undergraduates through analysis of determinate and indeterminate structures.
- Prepared lectures, example problems, and in-class activities focused on core structural engineering concepts.
- Created and graded quizzes, exams, and homework assignments.
- Recognized on the "List of Teachers Ranked Excellent by Their Students."

Instructor, Latino/a Culture, Department of Anthropology, University of Illinois, Spring–Fall 20XX

- Taught a 75-student lecture course using an interdisciplinary approach to Latino/a cultures.
- Used multimedia materials and online tools to enhance engagement and participation.
- Planned lessons, assignments, and discussions to develop critical thinking and writing skills.

Graduate Mentor, Illinois Summer Research Opportunities Program, The Graduate College, University of Illinois, Summers 20XX & 20XX

- Mentored two undergraduate students on data collection and analysis for geotechnical visualization projects.
- Supervised the preparation and presentation of research posters summarizing project outcomes.

Honors & Awards

Fulbright Scholarship to Pursue a PhD in Engineering, Argentina, 20XX
One of 20 scholarships awarded nationally.

Flag Honor Guard Member, Universidad Nacional de San Juan, 20XX
Selected by graduating with honors and ranking 4th among engineering majors.

Grants

Granting Agency, *"Title of Grant"*, $00,000, 20XX–20XX. Role: Co-Investigator.

Publications

Garcia, J., other authors. (Year). Title. *Journal*, Volume(Issue), pages. doi:.

Garcia, J., other authors. (in press). Title. *Journal*, Volume(Issue), pages.

Garcia, J., other authors. (Year produced). Title. Manuscript submitted for publication.

Garcia, J., other authors. (Year draft produced). Title. Manuscript in preparation.

Conference Presentations

Oral Presentations

Garcia, J., other authors. (Year, Month). Title. Minisymposium on subject, Meeting, City, State.

Garcia, J., other authors. (Year, Month). Title. Meeting, City, State.

Poster Presentations

Garcia, J., other authors. (Year, Month). Title. Poster session presented at Meeting, City, State.

Garcia, J., other authors. (Year, Month). Title. Poster presented at Meeting, City, State.

Professional Experience

Civil Engineer, TOSS Ingeniería, La Paz, Peru, 20XX–20XX

- Led implementation of seismic validation procedures at La Paz Central Hospital.
- Developed modelling and visualization algorithms to accelerate structural validation workflows.

University Service

Facilitator, College of Engineering, University of Illinois, July 20XX

- Helped organize the Principal's Scholars Program GEAR UP College Bound Summer Program for minority students.
- Designed a popsicle-stick bridge competition to introduce basic structural engineering concepts.

Student Assistant, Office of International Student and Scholar Services (ISSS), University of Illinois, July 20XX

- Assisted with check-in procedures for incoming international students.
- Provided information on campus resources and procedures for a successful arrival.

Technical Skills

Programming & Math Packages: Matlab, Mathematica, C, C++

CAD & Engineering Software: AutoCAD, Patran, Abaqus; optical imaging tools

Other Software: SPSS; Linux (openSUSE, Ubuntu); macOS; Windows

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Languages

Spanish – Native / Fluent · English – Professional Proficiency

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References

Ted S. Visor, Professor and Graduate Programs Head, Department of Civil Engineering, University of Illinois at Urbana-Champaign · (217) 244-2345 · email@illinois.edu

John D. Faculty, Assistant Professor, Department of Civil Engineering, University of Illinois at Urbana-Champaign · (217) 244-1234 · email@illinois.edu

Barbara A. Smith, Assistant Professor, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign · (217) 244-4321 · email@illinois.edu

Joseph B. Car, Senior Civil Engineer, TOSS Ingeniería, La Paz, Peru · 011 51 1 123-4567 · email@toss.com