

Jordan A. Jarrett, Ph.D., P.E.

Fort Collins, CO · jordan.jarrett@colostate.edu

Education

Doctor of Philosophy · Structural Engineering (2013)

Virginia Tech · Blacksburg, VA

- Dissertation Title: *Performance Assessment of Seismic Resistant Steel Structures*
- Advisor: Dr. Finley Charney

Master of Science · Structural Engineering (2009)

Colorado State University · Fort Collins, CO

- Thesis Title: *Elastic Waves in Ordered Planar Disc Packings*
- Advisor: Dr. Paul Heyliger

Bachelor of Science · Civil Engineering (2007)

Colorado State University · Fort Collins, CO

Licensure

Professional Engineer · California · License No. C85081 (2015) - Expires 3.31.2024

Professional Engineer · Washington · License No. 57993 (2019) - Expires 4.14.2024

Professional Engineer · Colorado · License No. PE.0059303 (2021) - Expires 10.31.2025

Teaching Experience

Teaching Assistant Professor · Colorado State University (2021 - current)

- Teaching the undergraduate classes of Dynamics (CIVE261), Mechanics of Materials (CIVE360) and Steel Design (CIVE466).
- Developing and teaching an elective classes entitled “Structural Loads and Codes”

Lecturer · Seattle University (2020 - 2021 Academic Year)

- Taught undergraduate classes of Statics (MEGR 2100), Mechanics of Materials I (CEEGR 2210), Mechanics of Materials I Laboratory (CEEGR 2220), Engineering Economics (CEEGR 3020), Structural Analysis (CEEGR 4450), and Steel Design (CEEGR 4490).
- Served as a year-long faculty advisor for a senior design project focused on assessing the behavior of existing steel structures supporting electrical equipment under seismic loading.

PhD Student Teacher · Virginia Tech (2012)

- Taught 90-student undergraduate Civil Engineering Materials (CEE 3684) class in Spring 2012
- Had complete responsibility for development of lectures, assignments, and exams.

Graduate Teaching Assistant · Colorado State University (2007 – 2008)

- Taught the Civil Engineering Materials lab (CIVE 302) in Fall 2007 and Fall 2008
- Became lead teaching assistant in Fall 2008 and mentored other teaching assistants.

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Professional Experience

Senior Design Engineer · Magnusson Klemencic Associates · Seattle, WA (January 2014 – August 2020)

- Worked on projects throughout the United States, including high-rise towers up to 1,000 feet tall and long-span truss frames. Notable projects include:
 - Office: Amazon Campus (Seattle), 150 N. Riverside (Chicago), Park Tower (San Francisco)
 - Entertainment: Skyrise Miami (not constructed)
 - Aviation: Boeing 777-X Fatigue Test Frame (Everett, WA)
 - Residential: 1000M (Chicago)
- Applied strong skills in structural analysis, concrete design, steel design, lateral design, performance-based design, communication, and leadership.
- Focused on coaching and development of young design engineers.
 - Mentored four new engineers by providing guidance and support in their first months of employment, through participation in the in-house Navigator Program
 - Managed multiple engineers through project and research work.
- Heavily involved with in-house Technical Specialty Teams
 - Followed new and emerging information in the structural engineering field, gave multiple in-house continuing education presentations, and contributed to research for technical papers.
 - Lead a team of engineers that developed tools and standards for office-wide use.
- Board Member of the MKA Foundation, which establishes a platform to promote industry-leading research.

Graduate Research Assistant · Virginia Tech (2010 – 2013)

- Investigated methods for assessing and comparing the behavior of traditional and newly developed steel seismic resisting systems designed using performance-based design procedures.
- Worked with Building Seismic Safety Council (BSSC) to provide supporting analyses for proposed changes to NEHRP Provisions. This research lead directly to changes incorporated into ASCE7-16 on the nonlinear time history analysis procedure.

Structural Intern · S.A. Miro · Denver, CO (2007 – 2008)

- Project related work included checking shop drawings, creating computer models for the preliminary design of buildings, and other minor steel and concrete design calculations.

Service and Affiliations

Professional Society Memberships

- Vice President and Treasurer (2024) · Structural Engineers Association of Colorado (2022 – current)
 - Chair · SEAC SE3 Committee
 - Secretary · SEAC Scholarship Committee
 - Member · SEAC Seismic, Steel, and Wind Load Committees
- Member · National Council of Structural Engineers Associations (2014 – current)
 - Member · NCSEA SE3 Committee
 - Member · NCSEA Wind Committee
- Member · American Institute of Steel Construction (2018 - current)
 - Member · Committee for Research
 - Member · Committee for Manuals
- Member · American Society of Civil Engineers (2021 - current) · Member # 12225230
 - Associate Member · ASCE 7-28 Wind Load Subcommittee
 - Voting Member · ASCE 7-28 Seismic Load Subcommittee

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Service and Affiliations (continued)

Professional Society Memberships (continued)

- Member · American Society of Engineering Education (2021 - current)
- Member · Society of Women Engineers (2023 - current)
 - Faculty Advisor · Colorado State University student chapter
- Member · Structural Engineers Association of Washington (2014 – 2021)

Mentor · ACE Mentor Program of Washington (2015 – 2018)

- Volunteered as an industry mentor for three academic years for ACE, an afterschool program that introduces high school students to Architecture, Construction and Engineering.
- Coached student groups as they developed a building schematic design based on the ACE RFP.
- Helped inspire dozens of students to develop an interest in the ACE industry, many of which enrolled in structural engineering programs and received scholarships from the ACE program.

Publications

- Litzler, E., London, J., Murzi, H., Jarrett, J., Knight, D., and Vanasupa, L. (2022) **WIP: ASEE Year of Impact on Racial Equity: Faculty and Administrators Engagement.** *Excellence Through Diversity: Proceedings of the ASEE 2022 Annual Conference*, Minneapolis, Minnesota.
- Hooper, J., Aswegan, K., Makdisi, A., Jarrett J. (2019). **Impacts of Ground Motion Selection and Scaling on the Response of a Real High-Rise Building.** *Proceedings of the 2019 Annual Meeting of the Los Angeles Tall Buildings Structural Design Council*, Los Angeles, California.
- Jarrett, J., Zimmerman, R., Charney, F., Jalalian, A. (2017). **Response-History Analysis for the Design of New Buildings in the NEHRP Provisions and ASCE/SEI 7 Standard: Part IV - A Study of Assumptions.** *Earthquake Spectra*, 33(2), 449-468.
- Jarrett, J., Judd, J., and Charney, F. (2015). **Comparative evaluation of innovative and traditional seismic-resisting systems using the FEMA P-58 procedure.** *Journal of Constructional Steel Research*, 105(2), 107-118.
- Aswegan, K., Charney, F., & Jarrett, J. (2015). **Recommended procedures for damage-based serviceability design of steel buildings under wind loads.** *AISC Engineering Journal*, 52(1), 1-25.
- Jarrett, J., Zimmerman, R., and Charney, F. (2014). **Accidental Torsion in Nonlinear Response History Analysis.** *Proceedings of the 10th National Conference in Earthquake Engineering*, Anchorage, AK.
- Flores, F. X., Jarrett, J. A., and Charney, F. A. (2012). **The Influence of Gravity-Only Framing on the Performance of Steel Moment Frames.** *Proceedings of the World Conference on Earthquake Engineering*, Lisbon, Portugal, Paper 5164.
- Bowland, A., Charney, F., Moen, C., Jarrett, J. (2010). **New Concepts in Modeling Damping in Structures.** *Proceedings of the 9th U.S. National and 10th Canadian Conference on Earthquake Engineering*, Toronto, Ontario, Canada, Paper No. 290.
- Jarrett, J., Sawahata, D., Riley, C.J., Heyliger, P. (2008). **Flexible Highway Barriers.** *MPC-08-198, Mountain-Plains Consortium*, Fargo, ND, 1-38.

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Certification

Engineering Education Certificate · Future Professoriate (2013)

Virginia Tech · Blacksburg, VA

Honors

Faculty Award for Excellence in Teaching from the CEE Department (2023)

Engineering College Council (ECC) Professor Awards – Most Inspiring Professor (2023)

Engineering College Council (ECC) Professor Awards – Friendliest Professor (2022)

Graduate Student Assembly's Travel Fund, Recipient (Fall 2012)

Virginia Tech – The Graduate School

Charles Via Ph.D. Fellowship, Recipient (Fall 2009)

Virginia Tech – Department of Civil and Environmental Engineering

Dean's Diversity Assistantship, Recipient (Fall 2009)

Virginia Tech – The Graduate School

CEE Structural Engineering Scholarship, Recipient (Fall 2008)

Colorado State University – Civil Engineering Opportunity Fun