

Sarira Motaref, Ph.D., P.E.

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EDUCATION

➤ **University of Nevada, Reno, NV** **2008-2011**

Ph.D. in Civil Engineering

Dissertation: "Seismic Response of Precast Bridge Columns with Energy Dissipating Joints", Advisor: Professor M. "Saïd" Saiidi

➤ **International Institute of Earthquake Engineering and Seismology, Tehran, Iran** **2004-2006**

M.Sc. Earthquake Engineering

Thesis: "Effect of Beam-to-Column Strength Ratio on Seismic Performance of Concrete Frames", Advisor: Dr. Massoud Mahmoudabadi

➤ **K. N. Toosi University of Technology, Tehran, Iran** **2000-2004**

B.Sc. Civil Engineering

PROFESSIONAL EXPERINCES

➤ **University of Connecticut, Storrs, CT** **2011-Now**

Full Professor/Associate/Assistant Professor in Residence Teaching **2013-Now**

- CE 3110, Mechanics of Materials, Junior level, major requirement for CE, ME, BME, MSE, MEM majors, Average of 110 enrollments, taught 22 times.
Online summer sessions, enrollment 25 students, taught 7 times
- CE2110, Applied Mechanics I (Statics), sophomore level, major requirement for CE, ENVE, ME, MSE, MEM, and BME, Average of 110 enrollments, taught 5 times.
Online summer sessions, enrollment 25 students, taught 16 times.
- ENGR 1166, Engineering Fundamentals, development and delivery, Freshman level, 350 enrollments, service course, Spring 2017, 2018
- ENGR 1000, Orientation to Engineering, Freshman, 160 enrolments, service course, Spring 2017
- 4510/5543 Foundation Design/Advanced Foundation Design, Senior level, 65 enrollments, CE Professional requirement, Spring 2016, 2017, and 2018
- CE 4500W and CE 4510W, Senior Design project, senior level, Major requirements, academic year 2016, 2017, 2018, 2019
- Online course development for UCONN College of Engineering, Mechanics of Materials, (CE 3110), Applied Mechanics I (CE 2110) Engineering fundamentals CE content (ENGR 1166)
- STAM seminar Coordinator (CE 5010)-Spring 2019 and Spring 2022

- Course director (CE 2110)-UConn Early College Experience program

Research

- INCLUDE, Beyond Accommodation: Leveraging Neurodiversity for Engineering Innovation, Co-PI, funded by NSF, 2023-2024
- Track 4 Phase II: The Autism Self-advocacy Center for Equity and Neurodiversity in Engineering (The A- SCENE), Co-PI, submitted to NSF, 2024
- Experiential Learning for Civil Engineering Students Using a Small-Scale Structural Maquette, PI, funded by UConn College of Engineering, 2023
- EAGER GERMINATION- Employing Diverse Human Strengths to Generate Transformative Research Questions, Submitted to NSF, Co-PI, 2022-Not funded
- Transforming Undergraduate Engineering Education through Implementation of Immersive Virtual Reality (VR) Experiences, Co-PI, funded by UConn College of Engineering, 2020
- Implementation of Virtual Laboratory in Fundamental Engineering Courses, PI, funded by UConn office of Provost, 2016
- Rethinking the Freshman Engineering Curriculum” (ENGR 1166), Co-PI, funded by UConn office of provost, 2017
- Advancing the State of Bridge Weigh-In-Motion for the Connecticut Transportation Network, Co-PI, funded by ConnDOT, 2017
- A Simplified Detail for the Acute Corner of Skewed Bridge Decks, Co-PI, funded by ConnDOT, 2017
- REU site, Research Experience in Cyber and Civil Infrastructure Security for Students with ADHD: Fostering Innovation, Senior Personnel, funded by NSF. 2015-2018

Assistant Director of Faculty Development

2017-Now

- Designing and planning professional workshops for faculty and graduate students (UConn and nationwide)
- Enhancing teaching and learning effectiveness of engineering courses
- Increasing the number of online engineering undergraduate courses (35 online classes are developed)
- Improving the quality and accessibility of graduate engineering courses in College of Engineering professional education programs (68 online classes are developed)
- Assisting SOE faculty with moving to distance online teaching during pandemic
- Assisting with Introduction and launch of SET+ in departments at the college of engineering.
- Planning and coordinating annual teaching/advising workshop for the Cchool of Engineering new hires
- Developing and arranging workshops for Engineering faculty related to flexible course design (online, flipped, Blended)
- Preparing Teaching Tips biweekly newsletter for the college of engineering

- Planning and coordinating monthly APIRs faculty meeting at the College of Engineering
- Working one-on-one with faculty to discuss latest teaching technology to optimize courses

Assistant Head of Department

2015-2016

- Managing course schedules and teaching loads
- Advising transfer and exchange students
- Planning for Open house, Outreach programs
- Representing CEE department in Curriculum and courses committees
- Evaluating foreign courses
- Coordinating internship opportunities

Post-Doctoral Fellow

2011-2013

Supervisor: Professor Richard E. Christenson

- Conducting a dual purpose BWIM (bridge weigh in motion)/BHM (bridge health monitoring) project on Connecticut highway bridge funded by Connecticut Department of Transportation (ConnDOT). Tasks include:
 - Design and implementation of a BHM/BWIM bridge monitoring system
 - Evaluating health monitoring of the highway bridges using different sensor technologies.
 - Providing a short-term standard monitoring system for BHM/BWIM evaluation of highway bridges.
- Design and construction supervisor for supporting reaction wall for 6 degrees of freedom shake table at UConn structural laboratory.
- Lecturer for CE3110 (Mechanics of Materials) and substitute instructor for ENGR1166 (Foundations of engineering)

➤ **University of Nevada, Reno, NV**

2007-2011

Research Assistant – Advisor Professor M. "Saiid" Saiidi

- Conducted a comprehensive study on using innovative materials in the plastic hinges of precast columns, funded by California Department of Transportation (Caltrans). Tasks included:
 - Shake table experiments on five scaled single segmental columns and a precast pier.
 - Elaborated nonlinear dynamic analyses of the columns using OpenSees.
 - Extensive parametric studies to understand the influence of important factors on the capacity and performance of specimens.
 - Development of a design method for this type of column.

- Mentored NEES funded undergraduate interns (REUs).

➤ ***Sub Station Company, Tehran, Iran***

2005-2006

- Designed cable racks

HONORS AND REGISTRATION

- Provost's Award for Excellence in Community Engaged Scholarship in the Faculty Team Award category, 2022, University Award
- University Teaching Fellow Award-UConn Center of Excellence in Teaching, 2021, University Award
- AAUP Teaching Excellence Award- Nominee-UConn AAUP, 2021
- University Teaching Fellow Award Nominee-UConn Center of Excellence in Teaching, 2020, University Award
- Distinguished Engineering Educator Award, 2019, College of Engineering Award
- Klewin Excellence in Teaching Award, 2016, 2017, and 2018, Departmental award
- Mentorship Excellence Award nominee- UConn office of undergraduates, 2016, University Award
- Recognition for Excellence in Teaching by University of Connecticut Office of Provost, 2013,2014, 2015, 2016, 2017, 2018, and 2019, 2020, and 2021
- Alumni Relations Faculty Excellence in Undergraduate Teaching Award Nominee-UConn Foundation, 2019
- Commencement Marshall, Selected by Graduating Civil Engineering Senior Students, 2016, 2017, and 2018
- University Teaching Innovation Award Nominee-UConn Center of Excellence in Teaching, 2017, University Award
- Certificates in teaching from American Society of Engineering Education, NETI-1, summer 2015 and NETI-2, Summer 2014, National Teaching Effective Institute
- Certificates in Teaching from Yale Summer institutes of Scientific Teaching, Summer 2018
- Best Paper Award in International Conference on Weigh-in-Motion, ICWIM6, Dallas, June 2012, National Award
- Winner of 2010 James D. Cooper Student Award at International Bridge Conference, Pittsburgh, Pennsylvania, June 2010. National Award
- Licensed Professional Engineer (PE) since 2013
- Licensed Fundamental Engineer (FE) since 2009

RESEARCH INTERESTS

- Innovation in teaching excellence
- 3D imaging technologies for structural assessment
- Multi-resilience materials in bridge structures
- Precast elements for accelerated bridge construction
- Earthquake engineering and seismic design
- Experimental study of large-scale structures
- Computational structural modeling
- Application of innovative materials and details in structures
- Bridge health monitoring
- Bridge weigh in motion

SERVICES

Committee Member:

University

- University Senate-Elected-July 2024-June 2027
- CCC+, TOI-6 (Scientific and Empirical Inquiry) subcommittee-Fall 2023-Now
- University of Connecticut Future of Learning Committee, (Student Success-Subcommittee) Spring 2021-Spring 2023
- University of Connecticut eCampus Steering Committee, Fall 2022-Spring 2023
- University of Connecticut SET Task Force, Fall 2022- Spring 2023
- University of Connecticut Educational Technologies Steering Committee, Fall 2015-Present
- University of Connecticut Curricular Analytics Community committee, summer 2022-Spring 2023
- CETL Executive Director Faculty Development search committee, Spring 2022
- Faculty Focus Group, UConn Enrollment Planning & Management and Huron Consulting Group, Spring 2022
- On-Line Proctoring Solution- RFP# CK021320 committee, summer 2020
- UICC (University Interdisciplinary Courses and Curriculum) Fall 2015-Spring 2019
- UConn Persistence of Women in STEM Committee, Fall 2016-Fall 2019
- Community of Practice, University Large Courses Committee, Spring 2017-Present

College

- College of Engineering Center for Advanced Engineering Education Committee, Fall 2017-Present
- First Year Engineering Education Program, Summer 2016-2018
- College of Engineering C&C (Curriculum and courses) Committee, Spring 2015-Spring 2016
- Internal Reviewer for Promotion Applications of Faculty in Residence, 2021-2023

Department

- CEE Department Head Advisory Council, fall 2022-Present
- CEE Department Teaching Observation Committee Chair, Fall 2019-Present
- CEE Community of Practice-Preparing for Distance Teaching, summer 2020

- Department Head Selection Committee, Spring 2018
- SET/Teaching Evaluation Committee, Fall 2018-Present
- Civil and Environmental Engineering Department C&C (Curriculum and courses) Committee, 2015, 2016,2018, 2019
- Civil and Environmental Engineering Department Website Committee, Spring 2015-Spring 2016
- Transportation Engineering Curriculum Committee, Spring 2015-Spring 2016

External to the University

- Advisory board member to NSF project "Investigating the creation and use of video-based professional development to increase the implementation of universal design for learning strategies by chemistry graduate teaching assistants"
- Professional paper/extended abstract session chair, 2022 ASEE-NE Conference, Wentworth Institute of Technology, Boston, MA, Spring 2022

Advisor:

- Sigma Phi Epsilon Fraternity Faculty Fellow-Spring 2022-Present
- EERI (Earthquake Engineering Research Institute) UConn Chapter, Spring 2024-Now
- Master's degree students (3 students)
- Academic advisor to undergraduate students (110 students)
- Listed as reference and provided recommendation letters to undergraduate students (90 students)
- Senior Design projects (20 students)
- Honor students conducting mini research project for honor conversions (31 students)
- REU students, summer 2015 and summer 2016, (2 students)
- Mentor for an undergraduate research assistant, fall 2015
- Academic advisor for transfer students, study abroad, and others (48 students)

Invited Educational Talks:

- CIRTL Network (Center for Integration of Research, teaching, and Learning), workshop series, "Building Neuroinclusive Learning Environment", Winter 2024
- UConn INCLUDE Winter and summer Institutes, "Neuroinclusive Teaching in STEM", Winter and Summer 2024
- UConn Center for Excellence and Teaching, "Students centered Learning", Teacher Assistants Orientation, Fall 2023, Spring 2024
- UConn Chemistry department graduate students' seminar, "Revising Active Learning with Neuroinclusive Mindset ", Fall 2023
- Association of environment Engineering and Science Professors workshop "Inclusive Teaching Practices for Neurodiverse Students, Boston, MA, June 2023
- UConn Center for Excellence and Teaching, "Inclusive Teaching Practices for Neurodiverse Students", May Day, Spring 2023
- MATHCOUNT State of CT competition, "What do Engineers do?", Winter 2023
- The College Autism Network, "How to assist faculty in being more effective/comfortable in the classroom in working with autistic and other ND students, Fall 2022

- INCLUDE project summer sessions, "Rethinking Active Learning Strategies for Neurodiverse Students", Summer 2021, summer 2022
- SigEp student organization, "Diversity, Equity and Inclusion", spring 2022
- SigEp student organization, "Personal and Professional Development", winter 2022, Fall 2023
- Jouel's Fellow Program, "Rethinking Active Learning Strategies for Neurodiverse Students", Summer 2021
- Biomedical Engineering Department, "SET+ Faculty training", Summer 2021, Co-presenter
- Environmental Engineering Program Leaders Annual Meeting, "Instruction in The Age of Coronavirus"/presenter, summer 2020
- Annual College of Engineering Teaching/Advising workshop, "Teaching-Best Practices In-person or Distance!"/ presenter, Fall 2020
- INCLUDE project kickoff meeting, "Strengths-based projects in Mechanics of Materials course"/presenter, winter 2021
- College of Engineering Departmental meeting, "SET+ Resources and Examples", Fall 2019/spring 2020, presenter
- Early College Experience teacher workshop, "Applied mechanics I for high school students" /presenter, summer 2019
- Da Vinci Program, "Innovative Teaching Methods for STEM Majors"/Speaker, summer 2018
- Kappa Alpha Theta/Speaker
- GK-12 Program/ speaker
- SOE faculty meeting/speaker
- E2, explore engineering/Instructor
- Early College Experience program summer program/instructor, coordinator
- CEE Open house instructor and coordinator

Reviewer/Judge:

- UCONN diversity proposal for JEDI (Justice, Equity, Diversity, and Inclusion Research Initiative), Ad-Hoc Reviewer/Referee
- Student paper award, 2022 ASEE-NE Conference, Ad-Hoc Reviewer/Referee
- CETL University Teaching Award-Teaching Fellow Award, Ad-Hoc Reviewer/Referee
- CETL University Teaching Award-Teaching innovation, Ad-Hoc Reviewer/Referee
- Annual UConn College of Engineering Poster Competition, Ad-Hoc Reviewer/Referee
- Annual UConn College of Engineering Senior Design Day, Ad-Hoc Reviewer/Referee
- Early College Experience Research Grant, Ad-Hoc Reviewer/Referee
- ASEE-NE conference, Reviewer
- ASEE Annual Conference, Reviewer
- ASCE Journal of Bridge Engineering, Reviewer
- ACI Structural and Materials Journals, Reviewer
- European Journal of Environmental and Civil Engineering, Reviewer
- Elsevier Journal of Engineering Structure, Reviewer
- Journal of Reinforced Plastic and Composite, Reviewer
- Nevada Medal Competition, Ad-Hoc Reviewer/Referee
- MATS UTC Proposals Competition, Ad-Hoc Reviewer/Referee

- Gk-12 Engineering Design Challenge Competition, Ad-Hoc Reviewer/Referee

PROFESSIONAL DEVELOPMENTS AND COMPUTER PROGRAM SKILLS

Professional Developments:

- Promoting Diversity in the Classroom, Spring 2023
- Bluenotes R1 University Community, Spring 2023
- Humanizing Teaching and Faculty Teaching Evaluation in Higher Education, Fall 2022
- Neurodiversity & Career Development, Fall 2022
- Caucusing in the Classroom: Leveraging Affinity and Alliance for Justice, Inclusion and Deep Learning, Fall 2022
- LGBTQ: Level 1 Safe Zone Ally Training, Fall 2022
- Curricular Analytics Community, Gardner Institute, summer 2022.
- Inclusive Excellence Program for Faculty and Staff: Justice Equity & Transformation (JET) Program, Spring 2022-Fall 2022
- ASEE Essentials of Effective Proposal Preparation, Spring 2022
- Crafting A Diversity Statement, CETL, Spring 2022
- Ungrading, CETL, Fall 2021
- Olin College Collaboratory Summer Institute: Designing Student-Centered Learning Experiences, 2020
- Effective Teaching in a Virtual Environment (NETI-3), summer 2020
- SoTL (Scholarship of Teaching and Learning) by Design, Fall 2019
- Teaching Students with Disabilities, CETL, summer 2019
- Summer Institute for Scientific Teaching, summer 2018
- Effective Evaluation of Teaching workshop with Rebecca Brent and Richard Felder, CET, Spring 2018
- Advanced National Effective Teaching Institute (NETI-2), summer 2014
- Basic National Effective Teaching Institute (NETI-1), summer 2015

Computer Program Skill:

- MATLAB (Data Acquisition Toolbox, Image Acquisition Toolbox)
- OpenSees
- SAP
- Xtract
- Seismosignal
- AutoCAD
- Mathcad

SCHOLARLY CONTRIBUTIONS

Refereed Journal Publication

- Wondolowski, M., Hain, A., Motaref, S., "Experimental Evaluation of 3D Imaging Technologies for Structural Assessment of Masonry Retaining Walls", Journal of Results in Engineering, volume 21, March 2024

<https://www.sciencedirect.com/science/article/pii/S2590123024001543?via%3Dihub>

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- Hain, A. & Motaref, S., "Evaluation of Augmented Reality to Enhance Undergraduate Engineering Students' Visualization Skills in an Entry-Level Course, *Journal of STEM Education*": Innovations and Research 24 (2), May-September 2023
<https://www.jstem.org/jstem/index.php/JSTEM/article/view/2614/2326>
 - Hain, A., Motaref, S., Zaghi, A. "Influence of fiber orientation and shell thickness on the axial compressive behavior of concrete-filled fiber-reinforced polymer tubes." *Construction and Building Materials*, Volume 220, 30 September 2019, pp 353-363
 - Motaref, S., M. Saiidi, D. Sanders, A. Mirmiran "Shake Table Studies of A Bridge Pier with Advanced Materials for Accelerated Bridge Construction." *International Journal of Bridge Engineering*, Special Issue 2016: pp. 135-162.
 - Motaref, S., M. Saiidi, and D. Sanders, "Experimental Study of Precast Bridge Columns with Built-In Elastomer." *Transportation Research Record: Journal of the Transportation Research Board*, Bridge Engineering 2010, Volume 3, pp 109-116.
 - Motaref, S., M. Saiidi, and D. Sanders, "Shake Table Studies of Energy Dissipating Segmental Bridge Columns." *J. Bridge Eng.*, 10.1061/(ASCE)BE, Volume 19, Issue 2 (February 2014), 186-199.

Presentations and Conference Proceedings

- Motaref, S., "Exploring Experiential Assessment in Mechanics of Materials: A Departure from Traditional Examinations", Submitted to 2024 ASEE-Annual Conference.
- Motaref, S., Hain, A., "Optimizing Co-Teaching Strategies for Success in a Neuroinclusive Large Mechanics of Materials Class", Submitted to 2024 ASEE-Annual Conference.
- Motaref, S., Roy, M., Chrysochoou, M., "Peer Observation Practice to Enhance Inclusive Teaching: An Exploratory Approach to Evaluate Faculty Perceptions", 2023 ASEE-Annual Conference, Baltimore, Maryland, June 25-28, 2023. <https://peer.asee.org/peer-observation-practice-to-enhance-inclusive-teaching-an-exploratory-approach-to-evaluate-faculty-perceptions>
- Roy, M., Motaref, S., Roy, M., "Impact of Project Based Assignments on Students' Learning Experience in Inclusive Courses", 2023 ASEE-Annual Conference, Baltimore, Maryland, June 25-28, 2023. <file:///C:/Users/sam11036/Downloads/impact-of-project-based-assignments-on-students-learning-experience-in-inclusive-courses.pdf>
- Motaref, S., "Strength-Based Projects in the Mechanics of Materials Course to Enhance Inclusivity and Engagement", 2022 ASEE-Annual Conference, Minneapolis, Minnesota, June 26-29, 2022. <https://peer.asee.org/strength-based-projects-in-the-mechanics-of-materials-course-to-enhance-inclusivity-and-engagement>.
- Motaref, S., "Redesigning the Flipped Mechanics of Materials Course to Support Diverse Learners", 2022 ASEE-NE Annual Conference, April 22-23, 2022, Wentworth Institute of Technology.
- Jang, s., Motaref, S., Roy, M., Roy, M., "Enhancing Student Engagement in Civil Engineering Courses during the Pandemic using Remote and Hybrid Modes", 2021 ASEE-NE Annual Conference, October 21-23, 2021, Worcester, Massachusetts.
- Motaref, S., "The Impact of Strength-Based Projects on the Engagement of Students in the Mechanics of Materials Course", 2021 ASEE-NE Annual Conference, October 21-23, 2021, Worcester, Massachusetts.

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- Chrysochoou, M. Syharat, C., Zaghi, A., Jang, S., Bagtzoglou, A., Motaref, S., "Redesigning Engineering Education for Neurodiversity: New Standards for Inclusive Courses", , 2021 ASEE Annual Conference & Exposition Virtual Conference, June 27-30, 2021, Long Beach California. <https://peer.asee.org/redesigning-engineering-education-for-neurodiversity-new-standards-for-inclusive-courses>.
 - Hain, A., Motaref, S., "Implementing Interactive 3D Models in an Entry Level Engineering Course to Enhance Students' Visualization", 2020 ASEE Annual Conference & Exposition Virtual Conference, June 20-24, 2020, Montreal, Quebec. <https://peer.asee.org/34782>.
 - Motaref, S., "The Evaluation of Different Learning Tools in Flipped Mechanics of Materials", 2020 ASEE Annual Conference & Exposition Virtual Conference, June 20-24, 2020, Montreal, Quebec. <https://peer.asee.org/35317>.
 - Green, J., Mehr, M., Zaghi, A., Motaref, S., Culmo, M., "Simplified Reinforcement Detail for the Deck Acute Corner in Skewed Bridges", International Bridge Conference, National Harbor, MD, June 2018. https://www.researchgate.net/publication/326261409_A_Simplified_Detail_for_the_Acute_Corner_of_Skewed_Bridge_Decks
 - Wu, Z. Y., Mo, D., Pan S., Christenson, R., Motaref, S., "Applying Phased-based Vision Sensing Method to Modal Feature Identification of Highway Bridge", The 8th International Conference on Structural Health monitoring of Intelligent Infrastructure, Brisbane, Australia | 5-8 December 2017
 - Prete, N., Motaref, S., Christenson, R., " Bridge Weigh-in-Motion (BWIM): An Analysis of BWIM Methods Accuracy, International Conference on Weigh-in-Motion, ICWIM7, Brazil, November 2016
 - Prete, N., Motaref, S., Christenson, R., " Bridge Weigh-in-Motion (BWIM):, International Bridge Conference, Pennsylvania, June 2016
 - Motaref, S., Christenson, R., Jang, S., McDonnell, A., "Multi-Purpose Sensing System for Highway Bridge Structural Health Monitoring", International Workshop on Structural Health Monitoring 2013 "A Roadmap to Intelligent Structures" Stanford University, Stanford, CA September 10-12, 2013.
 - Christenson, R., McDonnell, A., Motaref, S., "A Dual Purpose Bridge Health Monitoring and Weigh-in-Motion System for A Steel Girder Bridge", International Conference on Weigh-in-Motion, ICWIM6, Dallas, June 2012.
 - Development of a Dual-Purpose Bridge Weigh-In-Motion (BWIM) and Bridge Health Monitoring (BHM) System, Transportation Research Board (TRB) 91st annual Meeting, Washington, DC, January 2012.
 - A Dual Purpose Bridge Health Monitoring and Weigh-in-Motion System for A Steel Girder Bridge International Conference on Weigh-in-Motion, ICWIM6, Dallas, June 2012.
 - Saiedi, M., A. Vosooghi, Z. Haber, S. Motaref, and C. Cruz, and D. Sanders, "Next Generation of Earthquake-Resistant Bridges," Keynote Paper, International Conference EQADS 2011, Earthquake Analysis and Design of Structures, Coimbatore, India, December 2011, pp. 125-134.

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- Motaref, S., M. Saiidi, and D. Sanders, "Shake Table Response of Precast Bridge Columns with Advanced Materials," Caltrans Earthquake Engineering Committee Seminar, California Department of Transportation, Sacramento, California, January 2010.
 - Motaref, S., M. Saiidi, and D. Sanders, "Shake Table Response of Multi-Segment Reinforced Concrete Columns," Caltrans Earthquake Engineering Committee Seminar, California Department of Transportation, Sacramento, California, January 2010.
 - Motaref, S., Saiidi, M, and Sanders, D., "Shake Table Response of Precast Bridge Columns with Advanced Materials," Seismic ABC Collaboration, Session Sponsored by TRB Committee AFF50, Transportation Research Board 89th Annual Meeting, Washington, DC, January 2010.
 - Motaref, S., Saiidi, M, and Sanders, D., "Shake Table Response of Multi-Segment Reinforced Concrete Columns," Development of Precast Connection Details for Bridges in Moderate to High Seismic Regions, Session Sponsored by TRB Committee AFF30 and AFF50, Transportation Research Board 89th Annual Meeting, Washington, DC, January 2010.
 - Motaref, S., "Seismic Performance of Precast Bridge Columns with Energy Dissipating Joints" , Proceedings, International Bridge Conference, Engineers' Society of Western Pennsylvania, IBC 2010, Pittsburgh, Pennsylvania, June 2010.
 - Saiidi, M., Motaref, S., and Sanders, D., "Sustainable Future Bridges under Earthquake Loading, Part 2 – Accelerated Bridge Construction," Special 100th Seminar; University of Ljubljana, Slovenia; also presented at the Institute of Earthquake Engineering and Engineering Seismology, Skopje, Macedonia.
 - Saiidi, M., Motaref, S., and Sanders, D., "A Study of Precast Bridge Columns with Innovative Plastic Hinges with Built-In Elastomers," ACI Convention, Session Titled "Accelerated Bridge Design and Construction," St. Louis, Missouri, November 2008.

Reports

- Lobo-Agular, S., Christenson, R., Jang, S., Motaref, S., "Advancing the State of Bridge Weigh-In-Motion for the Connecticut Transportation Network.", Connecticut Department of Transportation Bureau of Policy and Planning Roadway Information Systems Research Section, Final Report No. CT-2290-F-14-6, SPR-2290, August 2017.
- Christenson, R., Motaref, S., "Dual Purpose Bridge Health Monitoring and Weigh -in-motion (BWIM) Phase I", Connecticut Department of Transportation Bureau of Policy and Planning Roadway Information Systems Research Section, Report No. CT-2265-F-15-7, July 2016.
- Kolev, V., Christenson, R., Motaref, S., Jang, S., "Development and Evaluation of a Dual Purpose Bridge Health Monitoring and Weigh-In-Motion System for a Steel Girder Bridge – Phase II", Connecticut Department of Transportation Bureau of Policy and Planning Roadway Information Systems Research Section, Report No. CT-2271-F-15-10, June 2016.
- Motaref, S., Saiidi, M, and Sanders, D., "Seismic Response of Precast Bridge Columns with Energy Dissipating Joints", Center for Civil Engineering Earthquake Research, Department of Civil and Environmental Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-11-01, May 2011.
- K. Nguyen, M. Saiidi, S. Motaref, C. Cruz, "Parametric Study of Glass Fiber Reinforced Polymer Concrete Filled Bridge Columns under Lateral Loads", Center for Civil Engineering Earthquake

Research, Department of Civil and Environmental Engineering, University of Nevada, Reno, Nevada, 2010.

Other Scholarly Contribution

- "Developmental Model to Understand the Process of Instructor Implementation of Evidence-Based Teaching Practices", Interview, Summer 2023.
- Neurodiversity and Inclusive Teaching in Classroom, Interview with David Colberg, UConn CETL, Spring 2022.
- Husky Talks Podcast, Center for Students with Disability Neurodiversity Podcast series, "A Student and Instructor Working Together", Fall 2021.
https://kaltura.uconn.edu/media/Neurodiversity+Episode+3A+Sarira+Motaref+&+Aaron+Rosenbloom/1_x4hlpqbe
- Real-World Examples in Mechanics of Materials, Educational GOOGLE sites,
<https://sites.google.com/view/mechanicsofmaterials-strengthb/home>

PROFESSIONAL MEMBERSHIP

- American Society of Engineering Education (ASEE)
- WIMSE (Women in Math, Science and Engineering)
- American Society of Civil Engineers (ASCE), Associate Member
- Society of Women Engineers (SWE)
- American Concrete Institute (ACI), Member
- Earthquake Engineering Research Institute (EERI), Member