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EXPERIENCE

The University of Texas (UT) at Austin, Austin, TX Aug'26 - Present
Assistant Professor, Fariborz Maseeh Dept. of Civil, Architectural and Environmental Engineering

Johns Hopkins University (JHU), Baltimore, MD June'23 - July'26
Adjunct Assistant Research Scientist, Dept. of Civil and Systems Engineering Dec'25 - July'26

Postdoctoral Fellow, Dept. of Civil and Systems Engineering, Supervisor: Dr. Benjamin W. Schafer

National Institute of Standards and Technology (NIST), Gaithersburg, MD Dec'23 - Dec'25
Associate, Earthquake Engineering Group, Host: Dr. Matthew S. Speicher

University of California San Diego (UCSD), La Jolla, CA Sep'16 - Mar'23
Graduate Researcher, Dept. of Structural Engineering, Supervisor: Dr. Tara C. Hutchinson

Indian Institute of Technology (IIT) Kanpur, Kanpur, UP, India Aug'15 - Sep'16
Graduate Researcher, Dept. of Civil Engineering, Supervisor: Dr. Durgesh C. Rai

University at Buffalo (UB), Buffalo, NY June - July'15
Research Scholar, Dept. of Civil, Structural and Environmental Engineering, Supervisor: Dr. Andreas Stavridis

EDUCATION

University of California San Diego, La Jolla, CA Mar'23
Doctor of Philosophy in Structural Engineering

Dissertation Title: Seismic Behavior of Cold-Formed Steel-Framed Wall-Line Systems in Mid-Rise Buildings

Indian Institute of Technology Kanpur, Kanpur, UP, India Sep'16
Bachelor of Technology in Civil Engineering (with Distinction)

Master of Technology in Civil Engineering
Thesis Title: Dynamic Characterization and Seismic Assessment of Historic Masonry Structure of Rumi Darwaza

RESEARCH INTERESTS

Mechanics of Sustainable & Resilient Materials & Structures; Natural Hazards Engineering; Structural Dynamics; Vibration Control & Response Modification; Cold-Formed Steel Structures; Post-hazard Functional Recovery; Vision-based Assessment; Experimental Investigation of Structural & Nonstructural Components

SERVICE

Voting Member, Consensus Body: *AISI S400-26 North American Standard for Seismic Design of Cold-Formed Steel Structural Systems*, Steel Framing Industry Association (SFIA)

Editorial Board Early Career Member: *The Structural Design of Tall and Special Buildings*, Wiley

Reviewer: Engineering Structures; ASCE Journal of Computing in Civil Engineering; Journal of Building Engineering; Steel and Composite Structures

INDUSTRY EXPERIENCE

BNW Engineering, Pasadena, CA March - Apr'26
Designer, Structural Engineering Team

Vakil Mehta Sheth Consultants Pvt. Ltd., Mumbai, MH, India May - July'14
Engineering Intern

HONORS AND AWARDS

Research

- Nominee for Early Career Best Paper Award for “Interaction of Suspended Ceilings and Pressurized Piping in a Full-scale 10-story Cold-formed Steel Building Shake Table Program”, *The 6th International Workshop on Seismic Performance of Non-Structural Elements (SPONSE)*, Yokohama, Japan. (2026)
- [2024 Best Paper Award](#) (Steel & Space Structures Category) and [Editor’s Featured Paper Award](#) for “Practice-oriented Numerical Model for Seismic Response of Cold-formed Steel-framed Mid-rise Buildings”, *Engineering Structures* (2025)
- [Best Student Paper Award](#) for “Lateral Response of Cold-Formed Steel Framed Steel Sheathed In-line Wall Systems Detailed for Mid-Rise Buildings”, *Cold-Formed Steel Research Consortium Colloquium 2020* (2020)
- Wei-Wen Yu Outstanding Student Paper Award for “Finite Element Modeling and Validation of Steel Sheathed Cold-Formed Steel Framed Shear Walls”, *International Specialty Conference on Cold-Formed Steel Structures 2018*, St. Louis, MO. (2018)
- Summer Undergraduate Research Grant for Excellence (SURGE), *IIT Kanpur*, Kanpur, India (2013)

Travel Grants

- CFSEI Expo Young Engineer Stipend, *Cold-Formed Steel Engineers Institute 2024 Expo*, Tucson, AZ (2024)
- NSF Early Career Local Participation Award, *NHERI Natural Hazards Research Summit 2024*, College Park, MD (2024)
- EERI Travel & Registration Grant, *12th National Conference on Earthquake Engineering*, Salt Lake City, UT (2022)
- NEC 2020 Registration Grant, *2020 National Earthquake Conference*, San Diego, CA (2020)
- Graduate Student Association Travel Grant, *UCSD*, La Jolla, CA (2018)

Service

- Certificate of Exemplary Leadership, *Students’ Placement Office, IIT Kanpur*, Kanpur, India (2015)

Scholastic

- Academic Excellence Award, *IIT Kanpur*, Kanpur, India (2012)

CONTINUING EDUCATION AND TRAINING

- FEMA P-154: Rapid Visual Screening of Buildings for Potential Seismic Hazards, *NIST*, Gaithersburg, MD (2024)
- ATC-20: Postearthquake Safety Evaluation of Buildings, *NIST*, Gaithersburg, MD (2024)
- Responsible Conduct of Research, *JHU*, Baltimore, MD (2023)
- Introduction to College Teaching: Foundations of Equitable Teaching, *UCSD*, La Jolla, CA (2021)

PUBLICATIONS

Peer-Reviewed Journal Articles

- (J11) Rivera, D., Sorosh, S., **Singh, A.**, Zhang, J., Ji, R., Eladly, M. M., Cyizere Rukundo, F., Rivera, D., Ellis, M., Padgett, L., Jones, H., Karns, J., Belvin, R., Smith, K., Stewart, D., Schafer, B. W., Hutchinson, T. C. (2026). Towards Cold-Formed Steel Modular Construction in Tall Building Systems: Investigation within a Landmark 10-story Building Shake Table Test Program. *Structures*. (In Preparation)
- (J10) **Singh, A.**, Sorosh, S., Zhang, X., Rivera, D., Cyizere Rukundo, F., Zhang, J., Fathali, S., Cook, D. T., Speicher, M. S., Sattar, S., Guy, R. G., Kohler, M. D., Hutchinson, T. C., Schafer, B. W. (2026). Benchmarking Multi-hazard Resilience of a 10-story Cold-formed Steel-framed Building. Part 2: Nonstructural Component Seismic Performance. (In Preparation)
- (J9) Hutchinson, T. C., Zhang, J., Sorosh, S., Ji, R., Rivera, D., Zhang, X., **Singh, A.**, Cyizere Rukundo, F., Eladly, M. M., Jones, H., Karns, J., Padgett, L., Emberley, R. L., Gernay, T., Meacham, B. J., Schafer, B. W. (2026). Benchmarking Multi-hazard (Earthquake and Fire) Resilience of a 10-story Cold-formed Steel-framed Building. Part 1: Program Overview and Seismic Behavior. (In Preparation)

- (J8) Zhang, Z., **Singh, A.**, Speicher, M. S., Peterman, K. D., Hutchinson, T. C., Schafer, B. W. (2026). Predicted Lateral Response of Finished Cold-formed Steel Framed Wall-lines with Steel Sheet Sheathed Shear Walls. (In Preparation)
- (J7) Zhang, Z., **Singh, A.**, Speicher, M. S., Peterman, K. D., Hutchinson, T. C., Schafer, B. W. (2025). Modeling Cold-formed Steel Framed Wall-lines with Steel Sheet Sheathed Shear Walls. *Thin-Walled Structures*, 214, 113408. DOI: [10.1016/j.tws.2025.113408](https://doi.org/10.1016/j.tws.2025.113408)
- (J6) **Singh, A.**, Zhang, Z., Wang, X., Schafer, B. W., Hutchinson, T. C. (2024). Practice-oriented Numerical Model for Seismic Response of Cold-formed Steel-framed Mid-rise Buildings. *Engineering Structures*, 319, 118833. DOI: [10.1016/j.engstruct.2024.118833](https://doi.org/10.1016/j.engstruct.2024.118833). **(2024 Best Paper Award, Editor's Featured Paper)**
- (J5) **Singh, A.**, Wang, X., Zhang, Z., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2024). Physical Damage-Hysteretic Response Correlation for Steel Sheet Sheathed Cold-formed Steel-framed Wall-lines. *Earthquake Engineering & Structural Dynamics*, 53(3), 1195–1215. DOI: [10.1002/eqe.4061](https://doi.org/10.1002/eqe.4061)
- (J4) **Singh, A.**, Wang, X., Zhang, Z., Derveni, F., Castaneda, H., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2022). Steel Sheet Sheathed Cold-Formed Steel Framed In-line Wall Systems. II: Impact of Nonstructural Detailing. *ASCE Journal of Structural Engineering*, 148(12), 04022194. DOI: [10.1061/\(ASCE\)ST.1943-541X.0003434](https://doi.org/10.1061/(ASCE)ST.1943-541X.0003434)
- (J3) **Singh, A.**, Wang, X., Zhang, Z., Derveni, F., Castaneda, H., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2022). Steel Sheet Sheathed Cold-Formed Steel Framed In-line Wall Systems. I: Impact of Structural Detailing. *ASCE Journal of Structural Engineering*, 148(12), 04022193. DOI: [10.1061/\(ASCE\)ST.1943-541X.0003433](https://doi.org/10.1061/(ASCE)ST.1943-541X.0003433)
- (J2) Zhang, Z., **Singh, A.**, Derveni, F., Torabian, S., Peterman, K. D., Hutchinson, T. C., Schafer, B. W. (2022). Cyclic Experiments on Steel Sheet Connections for Standard CFS Framed Steel Sheet Sheathed Shear Walls. *ASCE Journal of Structural Engineering*, 148(2), 04021261. DOI: [10.1061/\(ASCE\)ST.1943-541X.0003233](https://doi.org/10.1061/(ASCE)ST.1943-541X.0003233)
- (J1) Zhang, Z., **Singh, A.**, Derveni, F., Torabian, S., Peterman, K. D., Hutchinson, T. C., Schafer, B. W. (2021). Cyclic Experiments on Isolated Steel Sheet Connections for CFS Framed Steel Sheet Sheathed Shear Walls with New Configurations. *Engineering Structures*, 244, 112805. DOI: [10.1016/j.engstruct.2021.112805](https://doi.org/10.1016/j.engstruct.2021.112805)

Conference Papers

[†] - denotes author which presented paper at conference

- (C28) Eladly[†], M. M., Zhang, Z., Zhang, J., **Singh, A.**, Speicher, M. S., Hutchinson, T. C., Schafer, B. W. (2026, September). Pre-Test Evaluation of Ground Motion Sequence Effects on a Ten-Story Cold-Formed Steel Framed Building. *Proceedings of the 11th European Scientific Conference on Steel and Composite Structures (Eurosteel 2026)*, Cracow, Poland. DOI: [10.1002/cepa.70738](https://doi.org/10.1002/cepa.70738)
- (C27) **Singh, A.**, Speicher[†], M. S., Cyizere Rukundo, F., Hutchinson, T. C., Schafer, B. W. (2026, July). Application of 360 Degree Imaging and Construction Progress Documentation Platforms in Large-scale Experiments: a CFS10 Case Study. *Proceedings of the 13th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Portland, OR. ([link](#))
- (C26) Cook[†], D. T., Bhatta, J., **Singh, A.**, Eladly, M. M., Zsarnóczy, A., Sattar, S., Schafer, B. W., Speicher, M. S. (2026, July). Development of Nonstructural Fragility Models Using an Expanded Research Database. *Proceedings of the 13th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Portland, OR. ([link](#))
- (C25) Zhang[†], J., Eladly, M. M., **Singh, A.**, Cyizere Rukundo, F., Karns, J., Jones, H., Schafer, B. W., Hutchinson, T. C. (2026, July). Performance of Continuous Tie-Rod Systems within a 10-Story Cold-Formed Steel Shake Table Tested Building. *Proceedings of the 13th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Portland, OR. ([link](#))
- (C24) Eladly[†], M. M., Zhang, Z., Zhang, J., **Singh, A.**, Hutchinson, T. C., Schafer, B. W. (2026, July). Pre-

- Test Assessment of a Ten-Story Cold-Formed Steel-framed Building under MCE_R-Level Ground Motions. *Proceedings of the 13th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Portland, OR. ([link](#))
- (C23) **Singh, A.**, Sorosh, S., Zhang, X., Zhang, J., Cyizere Rukundo, F., Eladly, M. M., Ji, R., Rivera, D., Padgett, L., Meacham, B. J., Gernay, T., Emberley, R. L., Schafer[†], B. W., Hutchinson, T. C. (2026, May). Physical Damage - Measured Response Correlation for Nonstructural Components Tested under Multi-hazard (Earthquake and Fire) Demands in the CFS10 Building. In *Structures Congress 2026*. Reston, VA: American Society of Civil Engineers. DOI: [10.1061/9780784486924.024](#)
- (C22) Hutchinson[†], T. C., Zhang, J., Sorosh, S., Ji, R., Rivera, D., Zhang, X., **Singh, A.**, Cyizere Rukundo, F., Eladly, M. M., Jones, H., Karns, J., Padgett, L., Emberley, R. L., Gernay, T., Meacham, B. J., Schafer, B. W. (2026, May). Overview of the CFS10 Program: Full-scale Shake Table (Earthquake and Fire) Testing of a 10-Story Cold-Formed Steel Building. In *Structures Congress 2026*. Reston, VA: American Society of Civil Engineers. DOI: [10.1061/9780784486924.021](#)
- (C21) Hutchinson[†], T. C., Eladly, M. M., Ji, R., Rivera, D., Cyizere Rukundo, F., **Singh, A.**, Sorosh, S., Zhang, J., Zhang, X., Padgett, L., Jones, H., Karns, J., Schafer, B. W. (2026, March). Advancing use of Cold-formed Steel Framing Systems for Mid-Rise Residential Construction in Seismic Zones via Full-Scale Shake Table Testing. *Proceedings of the 8th Residential Building Design & Construction Conference*, Pennsylvania Housing Research Center, State College, PA. ([link](#))
- (C20) Rivera[†], D., Zhang, J., **Singh, A.**, Ji, R., Sorosh, S., Eladly, M. M., Cyizere Rukundo, F., Rivera, D., Ellis, M., Padgett, L., Jones, H., Karns, J., Stewart, D., Schafer, B. W., Hutchinson, T. C. (2026, March). Investigating Construction Methods in a Landmark 10-story Cold-Formed Steel Residential Building Specimen Shake Table Test Program. *Proceedings of the 8th Residential Building Design & Construction Conference*, Pennsylvania Housing Research Center, State College, PA. ([link](#))
- (C19) Eladly[†], M. M., Zhang, Z., Zhang, J., **Singh, A.**, Speicher, M. S., Hutchinson, T. C., Schafer, B. W. (2026, March). Pre-Test High-Fidelity Numerical Modeling of a Ten-Story Cold-Formed Steel Framed Building under Seismic Loading. *Proceedings of the 8th Residential Building Design & Construction Conference*, Pennsylvania Housing Research Center, State College, PA. ([link](#))
- (C18) **Singh, A.**, Cyizere Rukundo, F., Ameen, J., Fathali, S., Jaramillo, J., Torbin, B., Huntress, J., Szakats, G., Cook, D. T., Speicher, M. S., Sattar, S., Hutchinson[†], T. C., Schafer, B. W. (2026, March). Interaction of Suspended Ceilings and Pressurized Piping in a Full-scale 10-story Cold-formed Steel Building Shake Table Program. *Proceedings of the 6th International Workshop on Seismic Performance of Non-Structural Elements (SPONSE)*, Yokohama, Japan. ([link](#)) (**Nominee for Early Career Best Paper Award**)
- (C17) Cook[†], D. T., Bhatta, J., **Singh, A.**, Eladly, M. M., Zsarnóczy, A., Sattar, S., Schafer, B. W., Speicher, M. S. (2026, March). An Open-Source Nonstructural Element Database to Shorten the Tech Transfer Gap Between Nonstructural Research and Building Design. *Proceedings of the 6th International Workshop on Seismic Performance of Non-Structural Elements (SPONSE)*, Yokohama, Japan. ([link](#))
- (C16) Zhang[†], J., Sorosh, S., **Singh, A.**, Schafer, B. W., Hutchinson, T. C. (2026, January). Evolution of Modal Characteristics and Model Comparison for a 10-Story Cold-Formed Steel Framed Building under Seismic Excitation. *Proceedings of the International Modal Analysis Conference (IMAC) XLIV*, Palm Springs, CA. ([link](#))
- (C15) Eladly[†], M. M., Zhang, Z., **Singh, A.**, Zhang, J., Hutchinson, T. C., Schafer, B. W. (2025, April). Stability assumptions in numerical modeling of cold-formed steel-framed buildings under seismic loading. *Proceedings of the Annual Stability Conference Structural Stability Research Council 2025*, Louisville, KY. ([link](#))
- (C14) **Singh, A.**, Zhang[†], J., Rivera, D., Eladly, M. M., Jones, H., Kovac, A., Padgett, L., Rivera, D., Smith, K., Torabian, S., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2024, July). CFS-NHERI 10-Story Building Shake Table Test Specimen: Design Updates. *18th World Conference on Earthquake Engineering*, Milan, Italy. ([link](#))

- (C13) Zhang[†], J., **Singh, A.**, Eladly, M. M., Schafer, B. W., Hutchinson, T. C. (2024, July). Pre-test Numerical Modeling of the CFS-NHERI 10-Story Capstone Building. *18th World Conference on Earthquake Engineering*, Milan, Italy. ([link](#))
- (C12) Zhang[†], J., **Singh, A.**, Eladly, M. M., Marcinek, S., Guha, S., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2024, July). Ground Motion Selection and Scaling Considerations for the CFS-NHERI Capstone 10-Story Building Specimen. *18th World Conference on Earthquake Engineering*, Milan, Italy. ([link](#))
- (C11) **Singh[†], A.**, Hutchinson, T. C., Torabian, S., Schafer, B. W., Peterman, K. D., Padgett, L. Jones, H. (2022, October). Structural Design Narrative of the CFS-NHERI 10-story Test Building for Multi-dimensional Shake Table Testing. *Proceedings of the Cold-Formed Steel Research Consortium Colloquium*. ([link](#))
- (C10) Zhang[†], J., **Singh, A.**, Hutchinson, T. C., Wang, X. (2022, October). Seismic Analysis of the 10-Story CFS-NHERI Building. *Proceedings of the Cold-Formed Steel Research Consortium Colloquium*. ([link](#))
- (C9) Zhang[†], Z., Speicher, M.S., **Singh, A.**, Hutchinson, T. C., Schafer, B. W. (2022, October). Effects of Modeling Decisions on the Lateral Performance of Cold-Formed Steel Framed Walls. *Proceedings of the Cold-Formed Steel Research Consortium Colloquium*. ([link](#))
- (C8) **Singh[†], A.**, Zhang, Z., Castaneda, H., Peterman, K.D., Schafer, B.W., Hutchinson, T. C. (2022, July). Correlating fastener damage to hysteretic response and performance levels in steel sheet sheathed CFS wall-lines. *Proceedings of the 12th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Salt Lake City, UT. ([link](#))
- (C7) Zhang[†], Z., Speicher, M.S., **Singh, A.**, Hutchinson, T. C., Schafer, B. W. (2022, July). Impact of detailing on the lateral performance of cold-formed steel framed walls. *Proceedings of the 12th National Conference on Earthquake Engineering*, Earthquake Engineering Research Institute, Salt Lake City, UT. ([link](#))
- (C6) **Singh[†], A.**, Wang, X., Zhang, Z., Derveni, F., Castaneda, H., Peterman, K. D., Schafer, B. W. (2020, October). Lateral Response of Cold-Formed Steel Framed Steel Sheathed In-line Wall Systems Detailed for Mid-Rise Buildings. *Proceedings of the Cold-Formed Steel Research Consortium Colloquium*. ([link](#)) (**Best student paper award**)
- (C5) Zhang[†], Z., **Singh, A.**, Derveni, F., Torabian, S., Peterman, K. D., Hutchinson, T. C., Schafer, B. W. (2020, October). Cyclic Performance of Steel Sheet Connections for CFS framed Steel Sheet Sheathed Shear Walls. *Proceedings of the Cold-Formed Steel Research Consortium Colloquium*. ([link](#))
- (C4) **Singh, A.**, Wang, X., Torabian, S., Hutchinson, T. C., Peterman, K. D., Schafer, B. W. (2020, April). Seismic Performance of Symmetric Unfinished CFS In-Line Wall Systems. In *Structures Congress 2020* (pp. 629-642). Reston, VA: American Society of Civil Engineers. DOI: [10.1061/9780784482896.058](#)
- (C3) Rai[†], D. C., **Singh, A.**, Patnana, V. (2019, June). Correlating brick compressive strength to its fundamental transverse natural frequency. In P.B. Dillon & F.S. Fonseca (Eds.), *Proceedings of Thirteenth North American Masonry Conference*. Paper presented at the 13th North American Masonry Conference, Salt Lake City, Utah (pp. 746-755). Longmont, CO: The Masonry Society. ([link](#))
- (C2) **Singh[†], A.**, Hutchinson, T. C. (2018, November). Finite Element Modeling and Validation of Steel Sheathed Cold-Formed Steel Framed Shear Walls. *CCFSS Proceedings of International Specialty Conference on Cold-Formed Steel Structures*. 5, St. Louis, MO. ([link](#)) (**Wei-Wen Yu outstanding student paper award**)
- (C1) **Singh, A.**, Rai[†], D. C. (2017, June). Dynamic Characterization and Seismic Assessment of Historic Masonry Structure of Rumi Darwaza. *Proceedings of 13th Canadian Masonry Symposium*, Canada Masonry Design Centre, Halifax, Canada. ([link](#))

Conference Presentations/Posters (Without Papers or Extended Abstracts only)

[†] - denotes presenter

- (P10) Zhang[†], J., Sorosh, S., Eladly, M. M., **Singh, A.**, Schafer, B. W., Hutchinson, T. C. (2026, May). *Findings from the CFS10 Multi-Hazard Test Program: Practice-Oriented Numerical Modeling and Preliminary Model-Experiment Comparison of a 10-story Shake Table Tested Cold-Formed Steel Building*. ASCE Struc-

tures Congress 2026, Boston, MA.

- (P9) Hutchinson[†], T. C., Eladly, M. M., Emberley, R., Gernay, T., Jones, H., Karns, J., Padgett, L., Cyizere Rukundo, F., Rivera, D., Seifert, L., **Singh, A.**, Sorosh, S., Zhang, J., Schafer, B. W. (2025, September). *CFS10: Full-scale Shake Table (Earthquake and Fire) Test Program on a 10-story Cold-formed Steel Building*. 2025 SEAOC Convention, San Diego, CA.
- (P8) **Singh[†], A.**, Zhang, J., Rivera, D., Eladly, M. M., Ji, R., Gernay, T., Emberley, R., Meacham, B., Peterman, K. D., Schafer, B. W., Hutchinson, T. C. (2024, May). *Innovations in Cold-Formed Steel Design and Construction: Towards Tall, Fast, Dry, Multi-hazard Resilience*. Natural Hazards Research Summit 2024, College Park, MD. ([link](#))
- (P7) Zhang[†], J., **Singh, A.**, Hutchinson, T. C. (2023, April). *Numerical Investigation of the Response of a Mid-rise Cold-Formed Steel Building under the Türkiye/Syria Earthquake Sequence Scenario*. 2023 EERI Annual Meeting, San Francisco, CA. ([link](#))
- (P6) **Singh[†], A.** (2022, May). *Finite Element Modeling and Validation of the CFS-HUD 6-story Test Building*. Cold-Formed Steel Research Consortium Summer Symposium. ([link](#))
- (P5) **Singh[†], A.** (2021, June). *Seismic Behavior of Cold-Formed Steel Framed Steel Sheathed Wall Systems Detailed for Multi-story Buildings*. Cold-Formed Steel Research Consortium Summer Symposium. ([link](#))
- (P4) Wang, X., and **Singh[†], A.** (2021, June). *Test Protocol Development and Adaptive Motion Scaling Strategies for Shake Table Testing*. Cold-Formed Steel Research Consortium Summer Symposium. ([link](#))
- (P3) **Singh[†], A.** (2020, May). *Lateral Response of Cold-formed Steel Framed Steel Sheathed In-line Wall Systems Detailed For Mid-rise Buildings*. Cold-Formed Steel Research Consortium Summer Symposium. ([link](#))
- (P2) **Singh[†], A.**, Wang, X., Hutchinson, T.C., Zhang, Z., Schafer, B.W., Torabian, S., Castaneda, H., Derveni, F., Peterman, K.D. (2020, March). *Material, Component, and System Level Experimental Efforts within CFS NHERI*. 2020 National Earthquake Conference, San Diego, CA. ([link](#))
- (P1) Zhang[†], Z., Derveni, F., **Singh, A.**, Wang, X., Castaneda, H., Torabian, S., Peterman, K. D., Hutchinson, T. C. Schafer, B. W. (2020, March). *Simulation of Cold-Formed Steel Framed Shear Walls for Buildings: Efforts within CFS-NHERI*. 2020 National Earthquake Conference, San Diego, CA. ([link](#))

Technical Reports

- (R3) Wang, X., **Singh, A.**, Hutchinson, T. C. (2024). *Adaptive Motion Scaling Strategies for Seismic Performance Assessment in Shake Table Testing: Application to CFS-NHERI Wall-Line Tests*. Structural Systems Research Report SSRP-24/02, University of California San Diego, La Jolla, CA. ([link](#))
- (R2) **Singh, A.**, Hutchinson, T. C. (2022). *Lateral Response of Cold-Formed Steel Framed Steel Sheathed In-line Wall Systems Detailed for Mid-Rise Buildings. Part II: Quasi-Static Test Phase*. Structural Systems Research Report SSRP-19/06, University of California San Diego, La Jolla, CA. ([link](#))
- (R1) **Singh, A.**, Wang, X., Hutchinson, T. C. (2021). *Lateral Response of Cold-Formed Steel Framed Steel Sheathed In-line Wall Systems Detailed for Mid-Rise Buildings. Part I: Shake Table Test Phase*. Structural Systems Research Report SSRP-19/05, University of California San Diego, La Jolla, CA. ([link](#))

Datasets

- (D3) **Singh, A.**, Hutchinson, T., Wang, X., Zhang, Z., Schafer, B., Castaneda, H., Derveni, F., Peterman, K. (2022). “Wall Line Tests: Phase 2 – Quasi-Static Tests”, in CFS-NHERI: Seismic Resiliency of Repetitively Framed Mid-Rise Cold-Formed Steel Buildings. DesignSafe-CI. DOI: [10.17603/ds2-encf-vj32](https://doi.org/10.17603/ds2-encf-vj32)
- (D2) **Singh, A.**, Hutchinson, T., Wang, X., Zhang, Z., Schafer, B., Derveni, F., Castaneda, H., Peterman, K. (2021). “Wall Line Tests: Phase 1 – Shake Table Tests”, in CFS-NHERI: Seismic Resiliency of Repetitively Framed Mid-Rise Cold-Formed Steel Buildings. DesignSafe-CI. DOI: [10.17603/ds2-mvj8-8386](https://doi.org/10.17603/ds2-mvj8-8386)
- (D1) Zhang, Z., Torabian, S., **Singh, A.**, Derveni, F., Peterman, K., Hutchinson, T., Schafer, B. (2021). “Cyclic Experiments on Isolated Steel Sheet Connections for CFS Framed Steel Sheet Sheathed Shear

Walls”, in CFS-NHERI: Seismic Resiliency of Repetitively Framed Mid-Rise Cold-Formed Steel Buildings. DesignSafe-CI. DOI: [10.17603/ds2-y1wv-yz51](https://doi.org/10.17603/ds2-y1wv-yz51)

Invited Seminars

- (S5) **Singh, A.** (2026, April 24). *From Life Safety to Functional Recovery: Advancing Resilience through Full-scale Experiments and Numerical Modeling*. Department of Civil Engineering, Indian Institute of Technology Bombay, Mumbai, India.
- (S4) **Singh, A.** (2026, April 15). *From Life Safety to Functional Recovery: Advancing Resilience through Full-scale Experiments and Numerical Modeling*. Department of Civil Engineering, Indian Institute of Technology Madras, Chennai, India.
- (S3) **Singh, A.** (2026, March 23). *From Life Safety to Functional Recovery: Advancing Resilience through Full-scale Experiments and Numerical Modeling*. Department of Civil Engineering, Indian Institute of Technology Indore, Indore, India.
- (S2) **Singh, A.** (2026, February 9). *From Life Safety to Functional Recovery: Advancing Resilience through Full-scale Experiments and Numerical Modeling*. Maseeh Department of Civil, Architectural and Environmental Engineering, The University of Texas at Austin, Austin, TX.
- (S1) Hutchinson, T. C., **Singh, A.** (2026, February 4). *Fire Sprinkler Subsystem Response within a 10-story Cold-Formed Steel-Framed Building Subjected to Multi-Directional Earthquake and Live Fire Tests*. American Fire Sprinkler Association, Richardson, TX. ([link](#))

Theses

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