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EDUCATION

Ph.D., Civil/Structural Engineering (May 2005), Johns Hopkins University, Baltimore, MD

M.S., Civil/Structural Engineering (May 2005), Johns Hopkins University, Baltimore, MD

B.E., Civil/Structural Engineering (June 1998), Tsinghua University, Beijing, P. R. China

WORK EXPERIENCE

Professor and Program Coordinator, Construction Engineering Technology Program, Department of Mechanical Engineering, University of North Texas, Denton, TX (September 2020 – Present)

Professor and Program Coordinator, Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (September 2016 – August 2020)

Associate Professor and Program Coordinator, Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (September 2012 – August 2016)

Assistant Professor and Program Coordinator, Construction Engineering Technology Program, Department of Engineering Technology, University of North Texas, Denton, TX (January 2005 - August 2011)

Graduate Research Assistant, Department of Civil Engineering, Johns Hopkins University, Baltimore, MD (September 2000 - December 2004)

LICENSURES AND CERTIFICATIONS

Professional Engineer, Texas (December 2019 – Present)

AWARDS AND RECOGNITION

- Fellow, Structural Engineering Institute, American Society of Civil Engineers, 2021-present.
- 2018 Outstanding Reviewer Award, Journals of Constructional Steel Research, Elsevier.
- 2018 Outstanding Reviewer Award, Thin-Walled Structures, Elsevier.
- Student Commendation, UNT Thank a Teacher Program, University of North Texas, June 2014. [Award certificate in suppl. AW6]
- Best Paper Award. Kuo, C.-C., Johnson, J. L., and Yu, C. (2012). “*Selection of Delivery System, Contract Type, and Incentive/Disincentive Strategy for Highway Construction Projects in the United States.*” Proceedings of the 6th International Conference on Operations and Supply Chain Management, July 14 – 18, Xi'an, China, 109 – 111. [Award certificate in suppl. AW5]
- 2011 Outstanding Reviewer Award, Journal of Structural Engineering, American Society of Civil Engineers. [Award certificate in suppl. AW4]
- Faculty Early Career Development (CAREER) Award, National Science Foundation, 2010 – 2015. [NSF Grant #0955189, Award letter in suppl. GR20]
- Recognition as source of support and inspiration by students at Honors Day Program, University of North Texas 2009. [Award letter in suppl. AW2, AW3]
- Recognition as source of support and inspiration by students at Honors Day Program, University of North Texas 2007. [Award letter in suppl. AW1]

- 2002 MBMA (Metal Building Manufacturers Association) Graduate Fellowship Award

GRANTS

Awarded Research Grants/Contracts

External

58. PI, “*Behavior and Performance of Light Frame Shear Walls Sheathed by Composite Panels.*” Ectek International Inc., August 2021 – November 2021, GP00101.
57. PI, “*Analysis and Design of Casing Panels.*” Baltimore Aircoil Company, August 2021 - March 2022, GP00098.
56. PI, “*Tensile Strength of Inserts of Tiltwall Panel Lifting System.*” Tiltwall Headquarters & Supplies, June 2021 - July 2021, GP00097.
55. PI, “*Behavior and Performance of Screw Connection at Chord-Web Joint of Advant Trusses.*” Advant Steel, LLC., June 2021 - August 2021, GP00096.
54. PI, “*Experimental Investigation and Design Method of Cold-Formed Steel Joists with Edge-Stiffened Web Openings.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, April 2021 - May 2022, GP00092.
53. PI, “*Behavior and Performance of Light Frame Shear Walls Sheathed by Composite Panels.*” Ectek International Inc., May 2021 - September 2021, GP00090.
52. PI, “*Testing Special Hinge Connections.*” Universal Storage Containers, October 2020 - December 2020, GP00079.
51. PI, “*Testing of Cold-Formed Steel Framed Shear Walls for Frame-CAD.*” FRAMECAD America, Inc., September 2020 - December 2020.
50. PI, “*Analysis of Nucor Bolted Connections for Cold-Formed Steel.*” Nucor Buildings Group, June 2020 – September 2020.
49. PI, “*Analysis of Cold-Formed Steel Framed Shear Walls Sheathed by MegaBoard.*” Ectek International Inc., June 2020 - March 2021.
48. PI, “*Equivalent Section Properties of Cold-Formed Steel Members.*” Hilti Inc., November 2019 - May 2020.
47. PI, “*Thermal Conductivity of Cold-Formed Steel Supported Concrete Panels.*” Hi-Tech Tilt, August 2019 - September 2019.
46. PI, “*Testing of Cold-Formed Steel Framed Shear Walls Sheathed by Different Panel Materials.*” Ectek International Inc., April 2019 - June 2019.
45. Co-PI, (Title-Removed – Export Controlled)” KRI at Northern, LLC, March 2019 – March 2020. (PI Nahotre, Co-PIs Mukherjee, Nasrazadani, Voevodin, Zhang.)
44. PI, “*Shear Strength of Cold-Formed Steel Clip Angles with Multiple Lines of Screws.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, April 2019 - January 2020.
43. PI, “*Expanding Effective Strip Method to Thicker Stud Walls.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, April 2019 - January 2020.
42. PI, “*Testing of Cold-Formed Steel Member Connections Using BAC Fasteners.*” Baltimore Aircoil Company, January 2019 – March 2019.
41. PI, “*Testing of CF-Steel Roof and Floor Trusses.*” CFS Steel LLC, October 2018 – December 2018.
40. PI, “*Testing of CF-Steel Trusses.*” CFS Steel LLC, April 2018 – May 2018.
39. PI, “*Experimental Study on the Behavior and Strength of Lifting Lugs.*” Baltimore Aircoil Company, March 2018 – May 2018.

38. PI, “*Behavior and Strength of USG Structural Panel in Axial Compression.*” United State Gypsum Company, March 2018 – June 2018.
37. PI, “*Investigation on bolted connections in cold-formed steel members using J429 SAE bolts.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, February 2018 – January 2019.
36. PI, “*Testing of Cold-Formed Steel Framed Shear Walls Sheathed by USG Structural Panel Concrete Subfloor.*” United State Gypsum Company, January 2018 – May 2018.
35. PI, “*Testing of Cold-Formed Steel Member Connections Using BAC Fasteners.*” Baltimore Aircoil Company, December 2017 – June 2018.
34. Co-PI, “*Engineered Materials and Materials Design of Engineered Materials (EMMDEM); Tactical Shelters.*” ARMY Natick Soldier Systems Center, October 2017 – March 2019. PI Nahotre, Co-PIs Mukherjee, Nasrazadani, Voevodin, Zhang.
33. PI, “*Pull-out and Bearing Test of Screw Connections.*” Noble Environmental Technologies Corporation, September 2017 – October 2017.
32. PI, “*Major Improvement of LOD Specification for CFS Framing Construction.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, June 2017 – March 2018.
31. Co-PI, “*Light Weight Composite Structures for Advanced Tactical Shelters.*” ARMY Natick Soldier System, Northeastern University, September 2016 – August 2018. PI Schultz. Co-PIs Mukherjee, Nasrazadani, Voevodin, Zhang.
30. PI, “*Structural Performance of Cold-Formed Steel Framed ROK-ON Walls.*” MagBoard, LLC, May 2016 – May 2017.
29. PI, “*GOALI-Supplement: Achieving a Novel Cold-Formed Steel Shear Wall System from Lab to Construction Site.*” National Science Foundation, August 2016 – January 2017.
28. PI, “*Load Bearing Clip Angle Design – Phase Two.*” American Iron and Steel Institute, March 2016 – March 2018.
27. PI, “*Development of LOD Specification for Building Information Models of Metal Building Systems.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, May 2016 – August 2016.
26. PI, “*REU-Supplement: Deflection Characteristics of Innovative Cold-Formed Steel Shear Walls Using Corrugated Steel Sheet Sheathing.*” Proposal # 1541570, National Science Foundation, August 2015 – January 2016.
25. PI, “*REU-Supplement: Effect of Non-Structural Materials to the Behavior of Corrugated Steel Sheet Shear Walls.*” Proposal # 1520457, National Science Foundation, May 2015 – August 2016.
24. PI, “*Experimental Study on System Reliability of Cold-Formed Steel Roof Trusses.*” American Iron and Steel Institute, June 2015 – May 2016.
23. PI, “*Advancing Building Information Modeling (BIM) for Cold-Formed Steel Structures.*” AISI Standards Council Small Project Fellowship Program, American Iron and Steel Institute, May 2015 – August 2015.
22. PI, “*NSF PFI: AIR-TT Innovative High-Performance Cold-Formed Steel Walls for Light Framed Construction.*” Grant # 1445065, National Science Foundation, 2014 – 2016. Co-PI Jeff Martin, Verco Decking.
21. PI, Master Research Contract with KEYMARK Enterprises, LLC, (2013 – present), total grant as of August 2015.

20. PI, "CAREER: *Comprehensive Research on Cold-Formed Steel Sheathed Shear Walls: Special Detailing, Design, and Innovation.*" Grant #0955189, National Science Foundation, 2010 – 2016 (NCE).
19. PI, Research Contract with FRAMECAD America, (2014).
18. PI, "Load Bearing Clip Angle Design." American Iron and Steel Institute, September 2013 – December 2014.
17. PI, Master Research Contract with Nuconsteel Commercial Corp, (2010 – 2012).
16. PI, "Strength of Stud-to-Track Connections." Nuconsteel Commercial Corp., June 2010 – July 2010.
15. PI, "Compression Strength of Truss Chord Members." Nuconsteel Commercial Corp., April 2010 – June 2010.
14. PI, "Testing and Analysis of Cold-Formed Steel Structures." Nuconsteel Commercial Corp., June 2009 – August 2009.
13. PI, "Eccentrically Loaded Cold-Formed Steel Wall Stud Walls." Nucor Corporation, August 2008 – August 2009.
12. PI, "Evaluation of Stiffback for Monolithic Placement of Monolithic Placement of Ecospan Joist on ICF." Nucor Corporation, August 2008 – August 2009.
11. PI, "Shear Resistance of Cold-Formed Steel Stud Walls with Wider Range of Options in Steel Sheathing - Phase Two." American Iron and Steel Institute, August 2008 – December 2008.
10. PI, "Testing and Analysis of Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers - Phase 2." American Iron and Steel Institute, co-funded by Metal Building Manufacturers Association, October 2008 – September 2009.
9. PI, "Testing and Analysis of Cold-Formed Steel Structures." Nuconsteel Commercial Corp., June 2008 – May 2009.
8. PI, "Shear Resistance of Cold-formed Steel Framed Shear Wall Assemblies for Mid-rise Construction." Worthington Industries, February 2008 – July 2008.
7. PI, "Finite Element Analysis on Special Braced Frame." BORM Associates, Inc., June 2007 – December 2007.
6. PI, "Testing and Analysis of Cold-Formed Steel Structures." Nuconsteel Commercial Corp., June 2007 – May 2008.
5. PI, "Finite Element Analysis on BORM Moment Frame." BORM Associates, Inc., April 2007 – May 2007.
4. PI, "Testing and Analysis of Cold-Formed Steel Connections with Bolts in Oversize Holes or Short Slots without Washers." American Iron and Steel Institute, April 2007 – August 2008.
3. PI, "Shear Resistance of Cold-Formed Steel Stud Walls with Wider Range of Options in Steel Sheathing." American Iron and Steel Institute, January 2007 – April 2007.
2. PI, "Testing and Analysis of Cold-Formed Steel Structures." Nuconsteel Commercial Corp., June 2006 – May 2007.
1. Co-PI, "Cold-Formed Steel Structures Analysis." Nuconsteel Commercial Corp., June 2005 – May 2006 (PI: Dr. Bill Grubbs).

PUBLICATIONS

Book

1. Yu, C., (2016). "[*Recent Trends in Cold-Formed Steel Construction.*](#)" Woodhead Publishing Limited, Elsevier. ISBN 9780081009604. (Editor)

Book Chapters

3. Rahman, N., Chen, H., **Yu, C.**, (2020). "Chapter 9 Design of Cold-Formed Steel Structural Members." Structural Engineering Handbook by Mahamid, Gaylord and Gayload, Fifth Edition, McGraw-Hill. ISBN 9781260115987.
2. **Yu, C.**, Chen, H., (2016). "Chapter 2 Recent Code Development and Design Standards for Cold-Formed Steel Structures." Recent Trends in Cold-Formed Steel Construction, Woodhead Publishing Limited, Elsevier. ISBN 9780081009604.
1. **Yu, C.**, Zhang, W., (2016). "Chapter 3 AISI Design Procedures and Practical Examples for Cold-Formed Steel Structures." Recent Trends in Cold-Formed Steel Construction, Woodhead Publishing Limited, Elsevier. ISBN 9780081009604.

Refereed Journal Articles (* student advised, †corresponding author)

72. Zhang, W.*, Liu, Y.*, Xu, X.*, **Yu, C.†** (2022). "Improved Shear Design Method of Cold-Formed Steel Clip Angles," Elsevier, Journal of Constructional Steel Research, 188 (2022) 107045. doi.org/10.1016/j.jcsr.2021.107045.
71. Zhang, W.*, Mahdavian, M.*, Lan, X.*, **Yu, C.†** (2021). "Cold-Formed Steel Framed Shear Walls with In-Frame Corrugated Steel Sheathing." ASCE, Journal of Structural Engineering. DOI: 10.1061/(ASCE)ST.1943-15 541X.0003182.
70. **Yu, C.†**, Tian, Y.*, Yan, W., Zhang, W.* (2021). "Novel Energy Dissipation Bracing Designed for Corrugated Sheet Sheathed Cold-Formed Steel Shear Wall." ASCE, Journal of Structural Engineering. DOI: 10.1061/(ASCE)ST.1943-541X.0003147.
69. Liu, X.†, Meng, K., Zhang, A., Zhu, T., **Yu, C.** (2021). "Bearing Capacity of H-Section Beam Wrapped with Ceramsite Concrete." Steel and Composite Structures, Vol, 40, No. 5 (2021), September 10, 2021, Pages 679-696. https://doi.org/10.12989/scs.2021.40.5.679.
68. Xie, Z.*, Zhang, W.†*, Chen, T., Zhou, D., Shi, L., **Yu, C.** (2021). "Comparative Analysis and Design Method of Shear Strength for Hybrid SPR-SDS Joints in Thin-Walled Steel Structures." Elsevier, Structures, Vol 33, October 2021, 4313-4329. https://doi.org/10.1016/j.istruc.2021.07.003.
67. Zhao, Y., **Yu, C.**, Chen, S., Jian, Z., Zhang, W.† (2021). "Shear Performance of Cold-Formed Steel Shear Walls with High-Aspect-Ratios." Elsevier, Structures, Vol 33, October 2021, 1193-1206. https://doi.org/10.1016/j.istruc.2021.05.011.
66. Zhang, J., Li†*, X., **Yu, C.**, Cao, W. (2021). "Cyclic Behavior of High-Strength Concrete Shear Walls with High-Strength Reinforcements and Boundary CFST Columns." Elsevier, Journal of Constructional Steel Research. 182 (2021), July 2021, 106692, https://doi.org/10.1016/j.jcsr.2021.106692.
65. Zhang, W.*, Xu, X.*, Liu, Y.*, **Yu, C.†**, Liu X., Xie, Z. (2021). "High-Strength Cold-Formed Steel Framed Shear Wall with Steel Sheet Sheathing." Elsevier, Thin-Walled Structures, 162 (2021), May 2021, 107584. https://doi.org/10.1016/j.tws.2021.107584
64. Xie, Z.*†, Zhang, A., Yan, W., Zhang, Y., Mu, T.*, **Yu, C.** (2021). "Study on Shear Performance and Calculation Method for Self-pierce Riveted Joints in Galvanized Steel Sheet." Elsevier, Thin-Walled Structures. 161 (2021), April 2021, 107490. https://doi.org/10.1016/j.tws.2021.107490
63. Zhan, X, Liu, X.†, Feng, S., **Yu, C.** (2021). "Seismic Performance of a Square HSS Column to H-section Beam Bolted Connection with Double Cover Plate." Elsevier, Engineering Structures, Volume 131, 15 March 2021, 111729.
62. Zhang, A., Liu, X.†, Wang, Y., **Yu, C.**, Bai, Z., Ha, T. * (2021). "Static Performance of Slideable Bolt-Assembly Truss-to-Column Connection with Oversized Bolt Holes." Elsevier, Journal of Constructional Steel Research. 176 (2021) 106374.
61. Liu, X.†, Chen, G., Xu, L., **Yu, C.**, Jiang, Z. (2021). "Seismic Performance of Blind-Bolted Joints for Square Steel Tube Columns under Bending-Shear." Elsevier, Journal of Constructional Steel Research. 176 (2021) 106395.

60. Zhao, Q.¹, Qiu, J., Zhao, Y., **Yu, C.**, Li, Z., (2020) “*Estimating Fundamental Period of Corrugated Steel Plate Shear Walls.*” *KSCE Journal of Civil Engineering.* 24, 3023-3033(2020)
59. Zhan, J.¹, Li, X.* , Cao, W., **Yu, C.** (2020). “*Seismic Behavior of Composite Shear Walls Incorporating High-Strength Materials and CFST Boundary Elements.*” Elsevier, *Engineering Structures*, Vol 220, 1 October 2020, 110994.
58. Xie, Z.^{1*}, Zhang, A, Yan, W., Zhang, Y., **Yu, C.**, Mu, T. (2020). “*The Shear Behavior and Calculation Method of Self-Piercing Riveted Connections on Thin-Waled Steel Sheets.*” *Engineering Mechanics.* Vol. 37, No. 6, June 2020. DOI: 10.6052/j.issn.1000-4750.2019.12.0793. (In Chinese)
57. Liu, X.¹, Wang, Y., Cui, X., **Yu, C.**, Bai, Z. (2020). “*Seismic Performance of Bolted Beam-To-Column Connection with Rib-Stiffened Splicing Plate.*” Elsevier, *Journal of Constructional Steel Research.* 174 (2020) 106300.
56. Liu, X.¹, Feng, S., Shang, Z., **Yu, C.**, Bai, Z. (2020). “*Performance of Prestressed T-Type Self-Centering Energy-Dissipation Brace.*” Elsevier, *Engineering Structures.* 223 (2020) 111174.
55. Xie, Z.^{1*}, Zhang, A., Yan, W., Zhang, Y., **Yu, C.**, Mu, T. (2020). “*Research on Shear Behavior and Calculation Method for the Screw-Rivet Hybrid Connection in Cold-Formed Thin-Walled Steel.*” *Journal of Building Structures.* Vol. 41, No. 10, Oct. 2020. DOI:10.14006/j.jzjgxb.2019.0899. (In Chinese)
54. Liu, X.¹, Zhang, A., Wang, Y., Shang Z., **Yu, C.**, Bai, Z. (2020). “*Seismic Behavior of an X-Deployed Cable-Braced Bolt-Assembly Steel Frame.*” Elsevier, *Journal of Constructional Steel Research.* 170 July 2020, 106132.
53. Zhang, X.¹, Xie, Z.* , Song, L.* , Yan, W., **Yu, C.** (2020). “*Feasibility Research on the Application of Self-Piercing-Riveted Connection in Cold-formed Steel Structures.*” Elsevier, *Journal of Constructional Steel Research.* 168 (2020) 105957.
52. Zhao, J.¹, **Yu, C.**, Sun, K. (2019). “*Tests and Direct Strength Design on Cold-Formed Steel Channel Beams with Web Holes.*” *Engineering Structures*, Vol 184 (2019), 434–446.
51. Song, L.*¹, **Yu, C.**, Tan, Q., Yan, W., Xie, Z.* (2019). “*Flexural Behavior Investigation of the CFS Truss Beams with Self-Piercing Riveted Connection.*” Elsevier, *Journal of Constructional Steel Research.* Vol 156, May 2019, 28-45.
50. Liu, X.¹, Cui, F., Zhan, X., **Yu, C.**, Jiang, Z. (2019). “*Seismic Performance of Bolted Connection of H-Beam to HSS-Column with Web End-Plate.*” Elsevier, *Journal of Constructional Steel Research.* 156 (2019) 167-181.
49. Zhang, W.* , **Yu, C.**¹, Mahdavian, M.* (2019). “*Seismic Performance of Cold-Formed Steel Shear Wall using Corrugated Sheathing with Slits.*” *ASCE, Journal of Structural Engineering.* 145(4), April 2019.
48. Zhao, J.¹, **Yu, C.** (2019). “*Experimental Study and Numerical Simulation of G550 High Strength Cold-Formed Steel Z-Section Members under Pure Bending and Moment Gradient.*” *International Journal of Steel Structures.* Vol. 19, Issue 2, pp 366-380, April 2019.
47. Yan, W., Mu, T.* , Xie, Z.* , **Yu, C.**¹ (2019). “*Experimental Investigation of Typical Connections for Fabricated Cold-Formed Steel Structures.*” *Advances in Structural Engineering.* Vol. 22(1) 141–155.
46. Zhang, W.* , Mahdavian, M.* , **Yu, C.**¹ (2018). “*Different Slit Configuration in Corrugated Sheathing of Cold-Formed Steel Shear Wall.*” Elsevier, *Journal of Constructional Steel Research.* Vol 150, November 2018, 430-441.
45. Zhang, W.* , Mahdavian, M.* , **Yu, C.**¹ (2018). “*Lateral Strength and Deflection of Cold-Formed Steel Shear Wall using Corrugated Sheathing.*” Elsevier, *Journal of Constructional Steel Research.* Vol 148, September 2018, 399-408.

44. Qiu, J., Zhao, Q.[!], **Yu, C.**, Li, Z., (2018). “*Experimental Studies on Cyclic Behavior of Corrugated Steel Plate Shear Walls.*” ASCE, Journal of Structural Engineering. Vol. 144, Issue 11 (November 2018).
43. Zhang, J.[!], Zheng, W., **Yu, C.**, Cao, W. (2018). “*Shaking Table Test of RC Coupled Shear Walls with Single Layer of Web Reinforcement and Inclined Steel Bars.*” Advances in Structural Engineering. 21(15), 2282-2298.
42. Xie, Z.*, Yan, W., **Yu, C.**[!], Mu, T.*, Song, L.* (2018). “*Experimental Investigation of Cold-Formed Steel Shear Walls with Self-Piercing Riveted Connections.*” Elsevier, Thin-Walled Structures. Vol 131 (2018) 1-15.
41. Xu, L.[!], Zhang, S., **Yu, C.** (2018). “*Determination of Equivalent Rigidities of Cold-Formed Steel Floor Systems for Vibration Analysis, Part II: Evaluation of the Fundamental Frequency.*” Elsevier, Thin-Walled Structures. 132 (2018) 1-15.
40. Xie, Z.*, Yan, W.[!], **Yu, C.**, Mu, T., Song, L. (2018). “*Improved Shear Strength Design of Cold-Formed Steel Connection with Single Self-Piercing Rivet.*” Elsevier, Thin-Walled Structures. 131 (2018) 708-717.
39. **Yu, C.**[!], Zhang, W.*, Yu, G.*, Wang, J.* (2018). “*Cold-Formed Steel Framed Shear Wall using Corrugated Steel Sheathing with Slits.*” ASCE, Journal of Structural Engineering. Vol 144, Issue 8 – August 2018.
38. Xie, Z.*, Yan, W., **Yu, C.**[!], Mu, T.*, Song, L. (2018). “*Tensile Capacity of Self-Piercing Rivet Connections in Thin-Walled Steel Structures.*” Elsevier, Journal of Constructional Steel Research. 144 (2018) 211-220.
37. Zhang, W.*, Mahdavian, M.*, Yousof, M.*, **Yu, C.**[!] (2018). “*Testing and Design of Cold-Formed Steel Clip Angles in Tension: Pull-Over and Serviceability.*” Elsevier, Thin-Walled Structures. 124 (2018) 13-19.
36. Zhang, W.*, Mahdavian, M.*, **Yu, C.**[!], (2017). “*Recent Development on Seismic Performance of Cold-Formed Steel Framed Shear Walls with Corrugated Steel Sheathing.*” Progress in Steel Building Structures, Vol. 19, No. 6, December 2017. (in Chinese)
35. **Yu, C.**[!], Vora, H.*, (2017) “*A Pilot Study on Cold-Formed Steel Framed Shear Wall Assemblies with Corrugated Sheathing.*” International Journal of Structural Engineering, 2017, 8(3), 272-288.
34. Zhang, W.*, Mahdavian, M.*, Li, Y., **Yu, C.**[!] (2017). “*Seismic Performance Evaluation of Cold-Formed Steel Shear Walls using Corrugated Steel Sheathing.*” ASCE, Journal of Structural Engineering. Vol 143 (11), November 2017.
33. Yan, W., Xie, Z.*, **Yu, C.**[!], Song, L., He, H. (2017). “*Experimental Investigation on Self-Piercing Rivet Connections in Thin-Walled Steel Structures.*” Elsevier, Journal of Constructional Steel Research. 133 (2017) 231-240.
32. **Yu, C.**[!], Yousof, M.*, Mahdavian, M.*, Zhang, W.* (2017). “*Design of Cold-Formed Steel Clip Angles in Compression.*” ASCE, Journal of Structural Engineering. Vol. 143, Issue 6, June 2017.
31. Yang, Q., Lu, X.[!], **Yu, C.**, Gu, D. (2017). “*Experimental Study and Finite Element Analysis of Energy Dissipating Outriggers.*” Advances in Structural Engineering. Vol 20, Issue 8, 1196-1209, 2017.
30. Zhang, W.*, Madsavian, M.*, Li, Y., **Yu, C.**[!] (2017). “*Experiments and Simulations of Cold-Formed Steel Wall Assemblies using Corrugated Steel Sheathing subjected to Shear and Gravity Loads.*” ASCE, Journal of Structural Engineering. Vol. 143, Issue 3, March 2017.
29. **Yu, C.**[!], Yu, G.* (2016). “*Experimental Investigation of Cold-Formed Steel Framed Shear Wall using Corrugated Steel Sheathing with Circular Holes.*” ASCE, Journal of Structural Engineering, Vol. 142, Issue 12, December 2016.
28. B.W. Schafer[!], D. Ayhan, J. Leng, P. Liu, D. Padilla-Llano, K.D. Peterman, M. Stehman, S.G. Buonopane, M. Eatherton, R. Madsen, B. Manley, C.D. Moen, N. Nakata, C. Rogers, and **C. Yu.**

- (2016). “*Seismic Response and Engineering of Cold-Formed Steel Framed Buildings.*” Elsevier, Structures, Vol 8, Part 2, Pages 197-212, November 2016.
27. **Yu, C.**¹, Yousof, M.*², Mahdavian, M.*³, Zhang, W.*⁴ (2016). “*Behavior and Design of Thin-Walled Cold-Formed Steel Clip Angles subjected to Shear Load.*” ASCE, Journal of Structural Engineering, Vol. 142, Issue 7, July 2016.
 26. Dara, M.*¹, **Yu, C.**¹ (2016). “*Direct Strength Method for Web Crippling of Cold-Formed Steel C- and Z- Sections Subjected to One-Flange Loading.*” Journal of Steel Structure and Construction, OMICS International, 1: 105. doi:10.4172/jssc.1000105.
 25. Zhang J.¹, Dong, H., Cao, W., **Yu, C.**, Chi, Y. (2016). “*Shaking Table Tests of Low-Rise Shear Walls Made of Recycled Aggregate Concrete.*” Structural Engineering International, IABSE. Vol. 26, Number 1, pp. 62-73(12), February 2016.
 24. Lu, X.¹, Xie, L., **Yu, C.**, Lu X., (2016). “*Development and Application of a Simplified Model for the Design of a Super-Tall Mega-Braced Frame-Core Tube Building.*” Elsevier, Engineering Structures, 110 (2016) 116-126.
 23. Tian, H.W., Li, Y.Q.¹, **Yu, C.** (2015). “*Testing of Steel Sheathed Cold-Formed Steel Trussed Shear Walls.*” Thin-Walled Structures, 09/2015; 94(2015), 280-292.
 22. **Yu, C.**¹, Li, C.* (2015). “*Behavior and Strength of Cold-Formed Steel Shear Walls using Composite Panels.*” Advances in Structural Engineering, Vol 18, No. 7 (2015), 1063-1070.
 21. Zhang, J.¹, Cao, W., Meng, S., **Yu, C.**, Dong, H. (2014). “*Shaking Table Experimental Study of Recycled Concrete Frame-Shear Wall Structures.*” Earthquake Engineering and Engineering Vibration, Springer, June 2014, 13(2):257-267.
 20. Zhang, J.¹, Cao, W., **Yu, C.**, Dong, H. (2014). “*Shake Table Test of Reinforced Concrete Wall Structure with Concealed Bracings.*” Structures and Buildings, ICE Publishing. Vol. 167, Issue 10, October 2014, 598-609.
 19. Balh, N., DaBreo, J., Ong-Tone, C., El-Saloussy, K., **Yu, C.**, Rogers, C.A.¹ (2014). “*Design of Steel Sheathed Cold-Formed Steel Framed Shear Walls.*” Thin-Walled Structures 75 (2014), 76-86.
 18. Yanagi, N.*¹, **Yu, C.**¹ (2014). “*Effective Strip Method for the Design of Cold-Formed Steel Framed Shear Wall with Steel Sheet Sheathing.*” ASCE, Journal of Structural Engineering, Vol. 140, Issue 4, April 2014.
 17. Ahmadi, M., Zhang, H.¹, **Yu, C.**, Wahrmund, J. (2014). “*Determining Elastic and Shear Moduli of cold-Formed Steel at Elevated Temperatures Using a New Sonic Resonance Method.*” Nondestructive Testing and Evaluation, Volume 29, No. 1, 1-13.
 16. **Yu, C.**¹, Panyanouvong, M.X.* (2013). “*Bearing Strength of Cold-Formed Steel Bolted Connections with a Gaps.*” Elsevier, Thin-Walled Structures, 67 (2013), 110-115.
 15. De Leon, D.¹, Reyes, A., **Yu, C.** (2013). “*Probabilistic Assessment of the Structural Safety of Bolted and Welded Connection for Seismic Zones.*” Elsevier, Journal of Constructional Steel Research, 88 (2013), 15-20.
 14. **Yu, C.**¹, Xu, K.* (2013). “*Shear Strength of Cold-Formed Steel Sheet in Bolted Connections Using Oversized Holes.*” ASCE, Journal of Structural Engineering, 139 (2013), 860-864.
 13. Zhao, Y.*¹, Yan, W., **Yu, C.**¹ (2012). “*Experimental Study of Cold-Formed Steel Framed Shear Wall Assemblies with Tapping Corrugated Sheet Steel Sheathing.*” Earthquake Resistant Engineering and Retrofitting, 6 (2012), 87-92.
 12. Law, K.*¹, Zhao, Y.*², Yan, W., **Yu, C.**¹ (2012). “*Simplified Method for Critical Elastic Distortional Buckling of Cold-Formed Steel C and Z Sections.*” Advances in Structural Engineering, Vol 15, No. 12, (2012), 2013-2019.
 11. **Yu, C.**¹ (2012). “*Cold-Formed Steel Flexural Member with Edge Stiffened Holes: Behavior, Optimization, and Design.*” Elsevier, Journal of Constructional Steel Research, 71 (2012), 210-218.

10. **Yu, C.**¹, Yan, W. (2011). “*Determining Distortional Buckling Strength of Cold-Formed Steel Flexural C and Z Sections Using Effective Width Method Thin-Walled Structures.*” Elsevier, Thin-Walled Structures, Volume 49, Issue 2, (2011), 233-238.
9. **Yu, C.**¹, Xu, K.*², Sheerah, I.* (2011). “*Bearing Strength of Cold-Formed Steel Bolted Connections Using Oversized Holes without Washers.*” ASCE, Journal of Structural Engineering, 137 (2011), 156-159.
8. **Yu, C.**¹, Chen, Y.* (2011). “*Detailing Recommendations for 1.83-m Wide Cold-Formed Steel Shear Walls with Steel Sheathing.*” Elsevier, Journal of Constructional Steel Research, 67 (2011), 93-101.
7. **Yu, C.**¹ (2010). “*Shear Resistance of Cold-Formed Steel Framed Shear Walls with 0.686-mm, 0.762-mm, and 0.838-mm Steel Sheet Sheathing.*” Elsevier, Engineering Structures, 32 (2010), 1522-1529.
6. **Yu, C.**¹ (2010). “*Distortional Buckling Of Cold-Formed Steel Shear Wall Studs Under Uplift Force.*” ASCE, Journal of Structural Engineering, 136 (3), 317-323.
5. **Yu, C.**¹, Schafer, B.W. (2007). “*Simulation of Cold-Formed Steel Beams in Local and Distortional Buckling with Applications to the Direct Strength Method.*” Elsevier, Journal of Constructional Steel Research, 63(5), 581-590.
4. **Yu, C.**¹, Schafer, B.W. (2007). “*Effect of Longitudinal Stress Gradient on the Elastic Buckling of Thin Plates.*” ASCE, Journal of Engineering Mechanics, 133(4), 452-463.
3. **Yu, C.**¹, Schafer, B.W. (2006). “*Effect of Longitudinal Stress Gradient on the Ultimate Strength of Thin Plates.*” Elsevier, Thin-Walled Structures, 44 (7), 787-799.
2. **Yu, C.**¹, Schafer, B.W. (2006). “*Distortional Buckling Tests on Cold-Formed Steel Beams.*” ASCE, Journal of Structural Engineering, 132 (4), 515-528.
1. **Yu, C.**¹, Schafer, B.W.¹ (2003). “*Local Buckling Tests on Cold-Formed Steel Beams.*” ASCE, Journal of Structural Engineering, 129 (12), 1596-1606.

Conference Papers and Presentations (* student advised)

57. Xu, X*, Zhang, W., **Yu, C.**, (2021). “*The Design and Development of Lightweight Composite Panels for Rigid Wall Shelters.*” Proceedings of 2021 Annual Stability Conference, Structural Stability Research Council, Virtual Conference, April 13-16, 2021.
56. Zhang, W.*², **Yu, C.**¹, Mahdavian, M.*², Lan, X*² (2020). “*Cold-Formed Steel Framed Shear Walls with In-Frame Corrugated Steel Sheathing.*” Proceedings of the 2020 CFSRC Colloquium, October 20, 2020.
55. Zhang, W.*², **Yu, C.**¹, Mahdavian, M.*², Lan, X*² (2020). “*Cold-Formed Steel Framed Shear Walls with In-Frame Corrugated Steel Sheathing.*” Proceedings of the 2020 CFSRC Colloquium, October 20, 2020.
54. **Yu, C.**¹, Tian, Y., Yan, Z., (2020). “*Shear Strength of Cold-Formed Steel Flexural Members Connected Using Clip Angles.*” Proceedings of 2020 SSRC Annual Stability Conference, Structural Stability Research Council, Atlanta, GA, April 21-24, 2020 (Conference cancelled due to Covid).
53. **Yu, C.**¹, (2019). “*The Design of Clip Angle Connectors in Cold-Formed Steel Framing.*” ASCE Structures Congress, Orlando, FL, April 25-27, 2019. (Abstract and Presentation)
52. Artman, J.*², **Yu, C.**¹, (2019). “*The Design and Development of Lightweight Composite Panels for Rigid Wall Shelters.*” ASCE Structures Congress, Orlando, FL, April 25-27, 2019. (Abstract and Presentation, Section Chair)
51. Artman, J.*², **Yu, C.**¹, (2018). “*The Design and Development of Lightweight Composite Panels for Rigid Wall Shelters.*” Proceedings of the 24th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 7-8, 2018.
50. Zhang, W.*², Yan, Z.*², Mahdavian, M.*², Yousof, M.*², **Yu, C.**¹, (2018). “*Tensile Strength and Serviceability of Cold-Formed Steel Clip Angles.*” Proceedings of the 24th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 7-8, 2018.

49. **Yu, C.**, Yan, Z.*, Zhang, W.*. (2018). “*Strength of Cold-Formed Steel Clip Angle in Combined Bending and Shear Loading.*” Proceedings of the 24th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 7-8, 2018.
48. Zhdanov, D., **Yu, C.**, (2018). “*Recent Trends in the Use of Cold-Formed Steel Profiles in the US Construction Industry.*” Perspective Directions of Innovative Development of Construction Industry and Engineering Training, Brest, Belarus, October 25-26, 2018, pp. 137–143 (in Russian).
47. Lan, X.*, **Yu, C.**, Zhang, W.*. Mahdavian, M.* (2018). “*Seismic Performance Evaluation of Cold-Formed Steel Framed Shear Walls using In-Frame Corrugated Steel Sheets.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, Baltimore, MD, April 11-13, 2018.
46. Mahdavian, M.*, Lan, X.*, Zhang, W.*. **Yu, C.** (2017). “*Cold-Formed Steel Framed Shear Walls using Corrugated Steel Sheathing.*” 2017 CFSEI EXPO and Annual Meeting, Fort Worth, TX, May 21-23, 2017. (Presentation Only)
45. Artman, J.*, Derrick, N.*, Martinez, N., **Yu, C.**, Mukherjee, S. (2017). “*Light Weight Composite Structures for Advanced Tactical Shelters.*” 2017 CFSEI EXPO and Annual Meeting, Fort Worth, TX, May 21-23, 2017. (Presentation Only)
44. Zhang, W.*. Mahdavian, M., Li, Y., **Yu, C.** (2017). “*Finite Element Analysis on Shear Strength of Cold-Formed Steel Shear Walls Using Corrugated Steel Sheathing.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, San Antonio, TX, March 22-24, 2017.
43. Johnson, A.*, Smith, B., Moen, C., **Yu, C.** (2017). “*A Stud on the System Reliability of Cold-Formed Steel Roof Trusses.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, San Antonio, TX, March 22-24, 2017.
42. Jia, P.*, Zhang, W.*. Mahdavian, M.*. Derrick, N.*. **Yu, C.** (2016). “*Behavior of Steel Sheet Sheathed Cold-Formed Steel Walls Subjected to Combined Lateral and Vertical Loads.*” Proceedings of the 23rd International Specialty Conference on Cold-Formed Steel Structures, Baltimore, MD, November 9-10, 2016.
41. Zhang, W.*. Mahdavian, M.*. Li, Y. **Yu, C.** (2016). “*Simulating the Seismic Performance of Cold-Formed Steel Framed Buildings using Corrugated Sheet Shear Walls.*” Proceedings of the 23rd International Specialty Conference on Cold-Formed Steel Structures, Baltimore, MD, November 9-10, 2016.
40. Mahdavian, M.*. Zhang, W.*. **Yu, C.** (2016). “*Sheathing Overlapping and Attachment Methods for Cold-Formed Steel Shear Walls with Corrugated Steel Sheathing.*” Proceedings of the 23rd International Specialty Conference on Cold-Formed Steel Structures, Baltimore, MD, November 9-10, 2016.
39. Johnson, A.*. Ramirez, R.*. **Yu, C.** (2016). “*Advancing BIM for Cold-Formed Steel Structures.*” Proceedings of the 23rd International Specialty Conference on Cold-Formed Steel Structures, Baltimore, MD, November 9-10, 2016.
38. **Yu, C.**, Yousof, M.*. Mahdavian, M.*. Zhang, W.* (2016). “*Screw Connections in Cold-Formed Steel Clip Angles Subjected to Uplift Forces.*” Keynote presentation, 2nd World Congress and Exhibition on Construction and Steel Structure, Las Vegas, NV, September 22-24, 2016. (Abstract only)
37. Mahdavian, M.*. Zhang, W.*. Ding, Chu, Moen, C., **Yu, C.** (2016). “*Cyclic Simulation of Cold-Formed Steel Shear Walls with Corrugated Steel Sheathing.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, Orlando, FL, April 12-15, 2016.
36. Bagheri, A.*. Kondapally, S.*. Bostanci, H., Foster, P.R., **Yu, C.** (2016), “*Visualization and Simulation of an Innovative Rotary Displacer Stirling Machine Operation.*” Proc. 2016 ASEE-GSW Annual Conference, Fort Worth, TX, March 6-8, 2016.
35. Zhang, W.*. Wang, J.*. Mahdavian, M.*. **Yu, C.** (2016). “*Seismic Performance of Cold-Formed Steel Framed Buildings using Corrugated Sheet Shear Walls.*” Proceedings of the 2016 ASCE Geotechnical and Structural Engineering Congress, Phoenix, AZ, February 14-17, 2016.

34. **Yu, C.**, Yousof, M.* (2015). “*Behavior and Design of Thin-Walled Cold-Formed Steel Clip Angles subjected to Compression Load.*” Proceedings of the IJSSD Symposium on Progress in Structural Stability and Dynamics, Lisbon, Portugal, July 22-24, 2015.
33. **Yu, C.**, Vora, H.*, Li, C.* (2015). “*High-Strength Cold-Formed Steel Framed Shear Walls Sheathed with Noncombustible Panels.*” Proceedings of the Eighth International Conference on Advances in Steel Structures, Lisbon, Portugal, July 22-24, 2015.
32. **Yu, C.**, Yu, G.*, Wang, J.* (2015). “*Optimization of Cold-Formed Steel Framed Shear Wall Sheathed with Corrugated Steel Sheets: Experiments and Dynamic Analysis.*” Proceedings of the 2015 ASCE Structures Congress, Portland, OR, April 23-24, 2015.
31. **Yu, C.**, Yousof, M.*, Mahdavian, M.* (2015). “*Behavior and Design of Thin-Walled Cold-Formed Steel Clip Angles Subjected to Shear Load.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, Nashville, TN, March 24-27, 2015.
30. **Yu, C.**, Yu, G.*, Wang, J.* (2014). “*Innovative Cold-Formed Steel Framed Shear Wall Sheathed with Corrugated Steel Sheets: Experiments and Dynamics Analysis.*” Proceedings of the 22nd International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 5-6, 2014.
29. Schafer, B.W., Ayhan, D., Leng, J., Liu, P.*, Padilla-Llano D., Peterman, K.D., Stehman, M., Buonopane, S.G., Eatherton, M., Madsen R., Manley, B., Moen, C.D., Nakata, N., **Yu, C.** (2014). “*The CFS-NEES Effort: Advancing Cold-Formed Steel Earthquake Engineering.*” Proceedings of 10th U.S. National Conference on Earthquake Engineering, Anchorage, AK, July 21-25, 2014.
28. Choy, M.Y.*, Jia, X.F.*, Yuan, X.*, Zhou, J.*, Wang, H.S.*, **Yu, C.** (2014). “*Direct Strength Method for Web Crippling of Cold-Formed Steel C- and Z- Sections Subjected to Two-Flange Loading.*” Proceedings of Annual Stability Conference, Structural Stability Research Council, Toronto, Canada, March 25-28, 2014.
27. **Yu, C.**, Li, C.*, Elliott, C. (2014). “*Behavior and Design of Cold-Formed Steel Framed Shear Walls using Structural Composite Panels.*” Proceedings of the 2014 ASCE Structures Congress, Boston MA, April 3-4, 2014.
26. Yanagi, N.*, **Yu, C.** (2013). “*Effective Strip Model for Cold-Formed Steel Shear Wall using Steel Sheet Sheathing.*” Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, April 2013.
25. Liu, P.*, Peterman, K.D., **Yu, C.**, Schafer, B.W. (2012). “*Characterization of Cold-Formed Steel Shear Wall Behaviors under Cyclic Loading for the CFS-NEES Building.*” Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2012.
24. **Yu, C.**, Moen, C. (2012). “*The 1st Student Competition on Cold-Formed Steel Design.*” Proceedings of the 21st International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2012.
23. Kuo, C.-C., Johnson, J. L., and **Yu, C.** (2012). “*Selection of Delivery System, Contract Type, and Incentive/Disincentive Strategy for Highway Construction Projects in the United States.*” Proceeding of the 6th International Conference on Operations and Supply Chain Management, July 14-18, Xi'an, China, 109-111.
22. Yanagi, N.*, **Yu, C.** (2012). “*Cold-Formed Steel Sheet Sheathed Shear Walls in Mid-Rise Construction.*” Proceedings of the Annual Stability Conference, Structural Stability Research Council, Grapevine, TX, April 2012.
21. **Yu, C.**, Chao, L.* (2012). “*Experimental Investigation of Cold-Formed Steel Shear Walls Sheathed with Steel-Gypsum Composite Panels.*” Proceedings of the Annual Stability Conference, Structural Stability Research Council, Grapevine, TX, April 2012.
20. Liu, P.*, Peterman, K.D., **Yu, C.**, Schafer, B.W. (2012). “*Cold-formed steel shear walls in ledger-framed buildings.*” Annual Stability Conference, Structural Stability Research Council, Grapevine, Texas, April 2012.

19. Law, K.* Zhao, Y.*, **Yu, C.**, Yan, W. (2011). “*Simplified Methods for Determining the Critical Elastic Buckling Load of Thin-Walled Cold-Formed Steel Sections.*” Proceedings of the Annual Stability Conference, Structural Stability Research Council, Pittsburgh, PA, May 2011.
18. **Yu, C.**, Chen, Y.* (2010). “*Experimental Investigation on 6 Feet Wide Cold-Formed Steel Framed Shear Walls with Steel Sheet Sheathing.*” Proceedings of the 20th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, November 2010.
17. **Yu, C.** (2010). “*Appropriate Adjustment Method for Experimental Results of Cold-Formed Steel Shear Walls Sheathed with Steel Sheets.*” Proceedings of the Annual Stability Conference, Structural Stability Research Council, Orlando, FL, May 2010.
16. Moen, C. D., **Yu, C.** (2010). “*Elastic Buckling of Thin-Walled Structural Components with Edge-Stiffened Holes.*” Proceedings of the 51st AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, Orlando, FL, April 2010.
15. **Yu, C.**, Huang, Z., Vora, H.* (2009). “*Cold-Formed Steel Framed Shear Wall Assemblies with Corrugated Sheet Steel Sheathing*”, Proceedings of the Annual Stability Conference, Structural Stability Research Council, Phoenix, AZ, April 2009.
14. Vora, H.* , **Yu, C.** (2008). “*Pilot Research on Cold-Formed Steel Framed Shear Wall Assemblies with Corrugated Sheet Steel Sheathing.*” Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.
13. **Yu, C.**, (2008). “*Shear Resistance of Cold-Formed Steel Framed Shear Wall Assemblies with 0.027-.0.030-,0.033-inch Sheet Steel Sheathing.*” Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.
12. **Yu, C.**, Sheerah, I.* (2008). “*Cold-Formed Steel Bolted Connections without Washers on Oversized Holes: Shearing and Bearing Failures in Sheets.*” Proceedings of the 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, MO, October 2008.
11. **Yu, C.** (2008). “*A Unique Buckling Mode for Cold-Formed Steel Framed Shear Wall with Sheet Steel Sheathing.*” Proceedings of the 5th Conference on Coupled Instabilities in Metal Structures, Sydney, Australia, June 2008.
10. **Yu, C.** (2008). “*Cold-Formed Steel C-Sections with Edge Stiffened Perforations: Optimization, Behavior, and Design.*” Proceedings of the 5th International Conference on Thin-walled Structures, Brisbane, Australia, June 2008.
9. **Yu, C.** (2007). “*Behavior and Design of Cold-Formed Steel Joists with Edge Stiffened Perforations.*” Proceedings of the Annual Technical Session and Meeting, Structural Stability Research Council, New Orleans, LA, April 2007.
8. **Yu, C.**, Schafer, B.W. (2006). “*Finite Element Modeling of Cold-Formed Steel Beams: Validation and Application.*” Proceedings of the 18th International Specialty Conference Cold-Formed Steel Structures, Orlando, FL, October 2006.
7. **Yu, C.**, Lokie, T.* (2006). “*Effective Width Method Based Design for Distortional Buckling of Cold-Formed Steel Beams.*” Proceedings of the 18th International Specialty Conference Cold-Formed Steel Structures, Orlando, FL, October 2006.
6. **Yu, C.**, Schafer, B. W. (2006) “*Stability of Thin Plates under Longitudinal Stress Gradient.*” Proceedings of the Annual Technical Session and Meeting, Structural Stability Research Council, San Antonio, TX, February 2006.
5. Ádány, S., **Yu, C.**, Schafer, B. (2005) “*Local and Distortional Buckling Resistance of Cold-Formed Steel Beams: Eurocode 3 in the light of (i) Experimental Research and (ii) Other Design Codes.*” Proceedings of the EUROSTEEL 2005 Conference, Maastricht, Netherlands, June 8-10, 2005.
4. **Yu, C.**, Schafer, B.W. (2004). “*Distortional Buckling Tests on Cold-Formed Steel Beams.*” Proceedings of the 17th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2004.

3. **Yu, C.,** Schafer, B.W. (2004). “*Stress Gradient Effect on the Buckling of Thin Plates.*” Proceedings of the 17th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2004.
2. **Yu, C.,** Schafer, B.W. (2003). “*Analysis and Testing of Cold-Formed Steel Beams.*” Proceedings of the Advances in Structures: Steel, Concrete, Composite and Aluminum - ASSCCA’03, Sydney, Australia.
1. **Yu, C.,** Schafer, B.W. (2002). “*Local Buckling Tests on Cold-Formed Steel Beams.*” Proceedings of the 16th International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 2002.

Published Technical Reports

10. Yeganeh, B., **Yu, C.** (2020). “*Investigation of Bolted Connections in Cold-Formed Steel Members using SAE J429 Bolts.*” Research Report RP20-8, American Iron and Steel Institute, Washington, DC.
9. **Yu, C.,** Yan, Z., Qian, L. (2018). “*Load Bearing Clip Angle Design – Phase II.*” Research Report RP18-4, American Iron and Steel Institute, Washington, DC.
8. **Yu, C.,** Yousof, M., Mahdavian, M. (2015). “*Load Bearing Clip Angle Design.*” Research Report RP15-2, American Iron and Steel Institute, Washington, DC.
7. **Yu, C.,** Xu, K. (2010). “*Cold-Formed Steel Bolted Connections Using Washers on Oversized and Slotted Holes – Phase 2.*” Research Report RP10-2 submitted to American Iron and Steel Institute, Washington, DC.
6. **Yu, C.,** Chen, Y. (2009). “*Steel Sheet Sheathing Options for Cold-Formed Steel Framed Shear Wall Assemblies Providing Shear Resistance – Phase 2.*” Research Report RP09-2 submitted to American Iron and Steel Institute, Washington, DC.
5. **Yu, C.** (2008). “*Design of Clip Angle Bearing Stiffeners.*” Technical Note, Cold-Formed Steel Engineers Institute, Wilmington, NC, (Peer Reviewed).
4. **Yu, C.** (2008). “*Cold-Formed Steel Bolted Connections without Washers on Oversized and Slotted Holes – Phase 1.*” Research Report RP08-11 submitted to American Iron and Steel Institute, Washington, DC.
3. **Yu, C.** (2007). “*Steel Sheet Sheathing Options for Cold-Formed Steel Framed Shear Wall Assemblies.*” Research Report RP07-3 submitted to American Iron and Steel Institute, Washington, DC.
2. **Yu, C.,** Schafer, B.W. (2005). “*Distortional Buckling of Cold-Formed Steel Members in Bending.*” Research Report RP05-1, American Iron and Steel Institute, Washington, DC.
1. Schafer, B.W., **Yu, C.** (2002). “*Test Verification of the Effect of Stress Gradient on Webs of Cee and Zee Sections.*” Research Report RP02-5 submitted to American Iron and Steel Institute, the Metal Building Manufacturers Association.

Design Provisions Developed

9. Section “*B5.2.2.3.2.1 Effective Strip Method*” for wind load design, **AISI S240-15** North American Standard for Cold-Formed Steel Structural Framing, 2015 Edition, Page 44 - 45, American Iron and Steel Institute, Washington DC.
8. Section “*E2.3.1.1.1 Effective Strip Method*” for seismic load design, **AISI S400-15** North American Standard for Seismic Design of Cold-Formed Steel Structural Systems, 2015 Edition, Page 28 - 30, American Iron and Steel Institute, Washington DC.
7. Section “*C2.1 Available Strength [Factored Resistance] – Table C2.1-1 Nominal Shear Strength for Wind Load for Shear Walls for 0..030” 0.033” steel sheet one side*” and “*Table C2.1-3 Nominal Shear Strength for Seismic Loads for Shear Walls for 0.030”, 0.033” steel sheet one side*”, **AISI S213-12** North American Standard for Cold-Formed Steel Framing – Lateral Design, 2012 Edition (S213 was replaced by new AISI S240-15 page 48 and AISI S400-15, page 31), American Iron and Steel Institute, Washington DC.

6. Section “C2.1 Available Strength [Factored Resistance] – Table C2.1-1 Nominal Shear Strength for Wind Load for Shear Walls for 0.027” steel sheet one side” and “Table C2.1-3 Nominal Shear Strength for Seismic Loads for Shear Walls for 0.027” steel sheet one side”, **AISI S213-07 (2012)** North American Standard for Cold-Formed Steel Framing – Lateral Design, 2007 Edition (Reaffirmed 2012), Page 11, 13, American Iron and Steel Institute, Washington DC.
5. Section “E3.3.1 Bearing Strength [Resistance] Without Consideration of Bolt Hole Deformation Table E3.3.1-1 Bearing Factor, C, for Connections With Oversized or Short-Slotted Holes” and “Table E3.3.1-2 Modification factor, mf, for Connections With Oversized or Short-Slotted Holes”, **AISI S100-12** North American Specification for the Design of Cold-Formed Steel Structural Members, 2012 Edition, Page 106-107, American Iron and Steel Institute, Washington DC.
4. Section “C4.2 (b) Distortional Buckling Strength [Resistance] – For C- and Z-Sections or any Open Section with a Stiffened Compression Flange Extending to One Side of the Web where the Stiffener is either a Simple Lip or a Complex Edge Stiffener”, **AISI S100-07** North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition, Page 61-62, American Iron and Steel Institute, Washington DC.
3. Section “C4.2 (a) Distortional Buckling Strength [Resistance] – Simplified Provision for Unrestrained C- and Z-Sections with Simple Lip Stiffeners”, **AISI S100-07** North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition, Page 60-61, American Iron and Steel Institute, Washington DC.
2. Section “C3.1.4 (b) Distortional Buckling Strength [Resistance] – For C- and Z-Sections or any Open Section with a Stiffened Compression Flange Extending to One Side of the Web where the Stiffener is either a Simple Lip or a Complex Edge Stiffener”, **AISI S100-07** North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition, Page 40-42, American Iron and Steel Institute, Washington DC.
1. Section “C3.1.4 (a) Distortional Buckling Strength [Resistance] – Simplified Provision for Unrestrained C- and Z-Sections with Simple Lip Stiffeners”, **AISI S100-07** North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition, Page 39-40, American Iron and Steel Institute, Washington DC.

Patent

Yu, C., Martin, J., Haws, R. “[In-Frame Shear Wall](#)”, U.S. patent 10822793. (granted on 11/3/2020)

TEACHING

Professor, Associate Professor, Assistant Professor, Department of Engineering Technology, University of North Texas, Denton, TX (2005 – Present)

Master’s Level

- MSET 5220 Building Information Modeling, 3 credit hours
- MSES 5230 Risk Management in Construction, 3 credit hours
- MSET 5040 Analytical Methods for Engineering Technology, 3 credit hours
- MSET 5800 Graduate Studies: Cold-Formed Steel Design, 3 credit hours
- MSES 5900, MEET 5900, MEET 5910, MSET 5910 Graduate Special Problems, 1-3 credit hours
- MSES 5930, Graduate Research Problems in Lieu of Thesis

Undergraduate Level

- ENGR 2332 Mechanics of Materials, 4 credit hours (lecture and lab)
- CNET 1160 Construction Methods and Materials, 3 credit hours (lecture and lab)
- CNET 2300 Architectural Drawing, 2 credit hours (lecture and lab)
- CNET 3430 Structural Analysis, 3 credit hours

- CNET 3440 Steel Structures, 3 credit hours
- CNET 3460 Soils and Foundation, 3 credit hours (lecture and lab)
- CNET 4620 Advanced Design of Cold-Formed Steel Structures, 3 credit hours (lecture and lab)
- CNET 4780 Senior Design I, 2 credit hours (lecture and lab)
- CNET 4790 Senior Design II, 3 credit hours (lecture and lab)
- CNET 4900 Special Problems, 1-3 credit hours

STUDENT ADVISING

Graduate Students Advised, Me as Major Professor

Current Students

- Idisinke Inyang, M.S. in Engineering Technology - Construction Management, Project “Developing building information models of cold-formed steel sections” (May 2021).

Students Already Graduated

Thesis track:

- Maimouna Doukoure, M.S. in Engineering Technology - Construction Management, Thesis title “Structural Analysis and Finite Element Modeling of Aluminum Honeycomb Sandwich Structures” (May 2021).
- Mohaned Dewaidi, M.S. in Engineering Technology - Construction Management, Thesis title “Design Method for Cold-Formed Steel Shear Wall Sheathed with Polymer Composite Panel” (July 2020).
- Noraiz Rao, M.S. in Engineering Technology - Construction Management, Thesis title “Modeling and Analysis of Prototype Shelter Structures on ABAQUS” (May 2020).
- Alexander Rowen, M.S. in Engineering Technology – Construction Management, Thesis title “Structural, Thermal, and Corrosion Properties of a Cold-Formed Steel Rigid Wall Relocatable Shelter” (May 2020).
- Babak Yeganehtalab, M.S. in Engineering Technology - Construction Management, Thesis title “Construction Management Method and Techniques in Army Tactical Shelter” (December 2019).
- Aida Askhanalam, M.S. in Engineering Technology - Construction Management, Thesis title “Design Method of Cold-Formed Steel Frame Shear Wall Sheathed by Structural Concrete Panel” (December 2019).
- Xun Li, M.S. in Engineering Technology - Construction Management, Thesis title “Cold-Formed Steel Member Connections Using BAC Fasteners” (May 2019).
- Jeremy Artman, M.S. in Engineering Technology – Construction Management, Thesis title “The Design and Development of Lightweight Composite Wall, Roof, and Floor Panels Rigid Wall Shelters” (May 2018).
- Zhishan Yang, M.S. in Engineering Technology - Construction Management, Thesis title “Shear Strength of Cold-Formed Steel Clip Angles Subjected to Different Screw Pattern” (December 2017).
- Nathan Derrick, M.S. in Engineering Technology – Construction Management, Thesis title “Shear and Bending Strength of Cold-Formed Steel Solid Wall Panels using Corrugated Steel Sheets” (December 2017)
- Xing Lan, M.S. in Engineering Technology - Construction Management, Thesis title “Structural Performance of Novel Cold-formed Steel framed Shear Walls sheathed with Corrugated Sheets” (May 2017).
- Adam Johnson, M.S. in Engineering Technology - Construction Management, Thesis title “A Study on the System Reliability of Cold-Formed Steel Roof Trusses” (May 2017).
- Mahsa Mahdavian, M.S. in Engineering Technology - Construction Management, Thesis title “Innovative Cold-Formed Steel Shear Walls with Corrugated Steel Sheathing” (May 2016).
- Martin Dara, M.S. in Engineering Systems – Mechanical Engineering System, Thesis title “Direct Strength Method for Webcrippling of Cold-Formed Steel Sections under One-Flange Loading” (Summer 2015)

- Mohamad Yousof, M.S. in Engineering Technology - Construction Management, Thesis title “Analytical Model for Lateral Deflection in Cold-Formed Steel Framed Shear Walls with Steel Sheathing” (December 2014).
- Praveen Seelam, M.S. in Engineering Systems- Mechanical Engineering System, Thesis title “Direct Strength Method for Web Crippling of Cold-Formed Steel C Sections” (May 2013).
- Noritsugu Yanagi, M.S. in Engineering Systems- Construction Management, Thesis title “Analytical Model of Cold-Formed Steel Framed Shear Wall with Steel Sheet and Wood –Based Sheathing” (May 2013).
- Guowang Yu, M.S. in Engineering Systems- Construction Management, Thesis title “Cold-Formed Steel Framed Shear Wall Sheathed with Corrugated Steel Sheet” (May 2013).
- Chao Li, M.S. in Engineering Systems – Construction Management, Thesis title “Cold-Formed Steel Shear Wall using OSB Sheathing” (May 2012).
- Xouphab Panyanouvong, M.S. in Engineering Systems – Construction Management, Thesis title “Bearing Strength of Cold-Formed Steel Bolted Connections without Nut” (May 2012).
- Yujie Chen, M.S. in Engineering Systems – Mechanical Engineering System, Thesis title “Seismic Detailing for Cold-Formed Steel Shear Walls with Steel Sheathing” (Summer 2010).
- Ke Xu, M.S. in Engineering Systems – Mechanical Engineering System, Thesis title “Cold-Formed Steel Bolted Connections using Oversized and Slotted Holes without Washers” (Summer 2010).
- Ibraheem Shreah, M.S. in Engineering Systems – Mechanical Engineering System, Thesis title “Cold-Formed Steel Bolted Connections without Washers on Oversize and Slotted Holes” (May 2009).
- Hitesh Vora, M.S. in Engineering Technology – Mechanical Engineering Technology, Thesis title “Shear Wall Tests and Finite Element Analysis of Cold-Formed Steel Structural Members” (December 2008).

Project track:

- Kirti Koneru, M.S. in Engineering Technology - Construction Management, Project “Analysis method for thermal performance of cold-formed steel buildings with different insulation technologies” (May 2019).
- Adnan Sayeed Syed, M.S. in Engineering Technology - Construction Management, Project title “Development BIM Family for CFS Corrugated Shear Walls” (December 2015).
- Pavan Teja Kondiseti, M.S. in Engineering Technology – Construction Management, Project title “Finite Element Analysis of Cold-Formed Steel Clip Angles in Tension” (December 2015).
- Justin Coffey, M.S. in Engineering Technology – Construction Management, Project title “Finite Element Analysis of Cold-Formed Steel Clip Angles in Shear” (December 2015).
- Saikrishna Kondapally, M.S. in Engineering Technology – Mechanical Engineering System, Project title, “Modeling of an Innovative Stirling Engine” (Summer 2015).
- Raviteja Charungundia, M.S. in Engineering Systems - Construction Management, Project title, “Modeling and Analysis of Traffic at UNT Discovery Park” (Summer 2015).
- Matthew McCall, MS in Engineering Systems - Construction Management, Project title, “BIM Applications in Residential Buildings” (December 2014).
- Puja Sapru, MS in Engineering Technology- Construction Management, Project title, “BIM Applications in Clash Detection” (May 2014).
- Kiam Hai Law, M.S. in Engineering Systems – Mechanical Engineering System, Project title “Cold-Formed Steel Members with Stiffened Perforations” (Fall 2010).
- Khanh Nguyen, M.S. in Engineering Technology – Mechanical Engineering Technology, Project title “Finite Element Analysis on Cold-Formed Steel Specially Braced Frame” (May 2008).

Graduate Students Advised, Me as Co-Advisor

- Wenyong Zhang, PhD in Civil Engineering, “Seismic Performance of Cold-Formed Steel Framed Shear Walls using Corrugated Steel Sheathing,” School of Civil Engineering, Tongji University, Shanghai, China. Co-advisor: Dr. Yuanqi Li. September 2018.
- Pengchun Jia, M.S. in Civil Engineering, “Experimental Study and FEA Analysis on Seismic Performance of Cold-Formed Steel Framing Walls,” College of Architecture and Civil Engineering, Beijing University of Technology, Beijing, China. June 2016.
- Yang Zhao, M.S. in Civil Engineering, “Study on the Seismic Performance of Cold-Formed Steel Framed Shear Wall with Openings Corrugated sheet Steel Sheathing”, College of Architecture and Civil Engineering, Beijing University of Technology, Thesis title June 2012.

Graduate Students Advised, Me as Thesis Committee Member

- Jibril Shittu, Ph.D. in Department of Materials Science and Engineering, Dissertation title “Tribo-Corrosion of High Entropy Alloys” (Fall 2020).
- Satvik Janardhan Yaddanapudi, M.S. in Engineering Technology, thesis title “Spray Cooling with HFC-134A and HFO-1234YF for Thermal Management of Automotive Power Electronics” (Summer 2015).
- Pohua Lee, M.S. in Engineering System - Mechanical, thesis title “Experimental Study of Piezoelectric Energy Harvester” (May 2012).
- Uzochukwu Okafor, M.S. in Engineering System – Mechanical, Thesis title “Evaluation of the Mechanical Properties of D2 and A2 Tool Steels using Nanoindentation” (May 2012).
- John Black, M.S. in Engineering System, Thesis title “John Black, M.S. in Engineering System, thesis title “Recommended Modified Zone Method Correction Factor for Determining R-Values of Cold-Formed Steel Wall Assemblies” (May 2011).
- Ardeep Pati, M.S. in Engineering Technology, thesis title “Effects of Rebar Temperature and Water to Cement Ratio on Rebar-Concrete Bond Strength of Fly Ash Containing Concrete” (May 2010).
- Ali Shaito, Ph.D. in Department of Materials Science and Engineering, Dissertation title “Long Term Property Prediction of Polyethylene Nanocomposites” (May 2008).
- Elias Sudio, M.S. in Engineering Technology, Thesis title “Factors influencing horizontal cracking in continuously reinforced concrete pavements” (May 2008).

Undergraduate Students (all supported by research grants)

UNT Students

- Huy Le, Osinachi Izuogu, Mohamad Khodr, Dylan Warren (2020)
- Rhett Buoter, Josh Fleming, Aziz Haryani, Omar Kohar, Ha Tran, Dawson Guerrettaz, Sebastian Gatewood, Zachary Canales (2018-2019)
- Sage Ellis (2017)
- Nathan Derrick, Roni Ramirez, Jose Sandoval, Nick O'Connor, Christopher Lavezo, Douglas Joseph, Jeremy Artman (2015-2016)
- Kevin Holden, Tom Kalisky, Emmanuel Salazar, Adam Johnson (2013 – 2015)
- Marcus Sanchez, Roger Rovira (2010 – 2012)
- Kyle Durham, Devin Hyde, Travis Stivors, Taylor Cheney, Andy Hetrick (2009)
- George Trabazo, Robert Moore, Jole Bolz (2007 – 2008)
- Cole Earle, Jimmy Tucker (2005 – 2007)
- Tony Dianard (2005 – 2006)
- Trevor Lokie, Andrew Alnos (2005)

Texas Academy of Mathematics and Science (TAMS) Students

- Harish Sridharan, Wakdikar Som (2020-2021)
- Tobias Haynes, Rasna Baweja (2017-2018)
- Maxine Tao (2016)
- Haein Kim, Josh Lee (2012)
- Wesley Beckner, Alex Wu (2009)
- Stepen Mathai, Szu-Chun Huang (2008)

External PhD Dissertation Examiner

- Van Bac Mai, PhD Dissertation “Fracture Behaviors in Cold-Reduced High Strength Steel”, School of Civil Engineering, University of Sydney, Sydney, Australia, 2019.

PROFESSIONAL AFFILIATIONS

Journal Editorial Boards

- Associate Editor, Journal of Materials in Civil Engineering, ASCE, <http://ascelibrary.org/journal/jmcee7> (2011 – present).
- Editorial Board Member, Thin-Walled Structures, Elsevier, <https://www.journals.elsevier.com/thin-walled-structures> (2018 – present)
- Editorial Board Member, Journal of Steel Structure and Construction, OMICS International, <http://www.omicsonline.org/steel-structures-construction.php> (2015 – present)
- Editorial Board Member, Engineering Mechanics Journal, <http://gclx.tsinghua.edu.cn/CN/volumn/home.shtml> (2015 – present)
- Founder and Organizer, International Student Competition on Cold-Formed Steel Design, <http://cfscompetition.unt.edu>. (2011 – 2016).

Professional and Research Association Affiliations

- President, America-China Steel Framing Association (2019 – present)
- Member and Subcommittee Member, Committee on Framing Standards of American Iron and Steel Institute (2006 – present)
- Member and Subcommittee Member, Committee on Specifications of American Iron and Steel Institute (2005 – present)
- Member, Jim McNatt Logistics Institute for Logistics Research, University of North Texas (2015 – present)
- Principal Investigator, Cold-Formed Steel Research Consortium (2014 – present)
- Vice Chair, Task Group 5 Thin-Walled Structures, Structural Stability Research Council (2012 – 2016).
- Member, American Society of Civil Engineers (2011 – present, 2005 – 2011 associate, 2000 – 2005 student)
 - Member, Committee on Cold-Formed Members, Structural Engineering Institute, Engineers (2010 – 2016, 2018 - present)
 - Committee on Multihazard Mitigation, Structural Engineering Institute (2015 - present)
 - Committee on Modular, Rapidly Erectable, & Deployable Structures, Structural Engineering Institute (2020 - present)
- Member, Cold-Formed Steel Engineers Institute (2014 – present)
 - Education Committee (2015 – present)

- o CFSEI Technical Document Committee (2007 – 2009)
- Member, Structural Stability Research Council (2006 – present)
- Member, American Institute of Steel Construction, (2007 – present)
- Member, Technical Assistance Panel, TAP 5, Texas Department of Transportation (2005 – present)
- Senior Member, American Institute of Aeronautics and Astronautics (2010 – present)
- Member, PACCAR Technology Institute, University of North Texas (2013 – 2019)
- Member, CFSEI Technical Document Committee (2007 – 2009)
- Member, American Council for Construction Education (2005 – 2008)