

CURRICULUM VITAE

CV SECTION 1: Employment History/Awards

NAME

Svetlana Olbina

ADDRESS

Department of Construction Management
115 Guggenheim Hall
Fort Collins, CO 80523-1854

PHONE

970-491-7026

EDUCATION

2005	Ph.D., Building Construction, Virginia Tech
2000	M. Sc., Architecture, University of Belgrade
1990	B.Sc., Architecture, University of Belgrade

Certifications and Licenses

2016	Human Subject Research Certificate (recertified in 2022)
1993	Licensed Architect in Serbia

ACADEMIC POSITIONS

2015 - present	Associate Professor, Construction Management, Colorado State University
2014-2015	Lecturer, Construction Management, University of Florida
2005-2014	Assistant Professor, Construction Management, University of Florida
2004-2005	Visiting Assistant Professor, Construction Management, University of Florida
2000-2004	Graduate Teaching Assistant, Building Construction, Virginia Tech
1994-2000	Lecturer, Architecture, University of Belgrade

SABBATICALS

Fall 2023

OTHER POSITIONS

(May – August, 2002) Architectural Intern, Pulte Homes Corporation, Fairfax, VA, USA
(May – August, 2001) Architectural Intern, Pulte Homes Corporation, Fairfax, VA, USA
(1991-1994) Project Manager, Industry of Metal Constructions “Belgrade”, Belgrade, Serbia
(1989-1990) Architectural Assistant, University of Belgrade, School of Architecture

CURRENT JOB DESCRIPTION

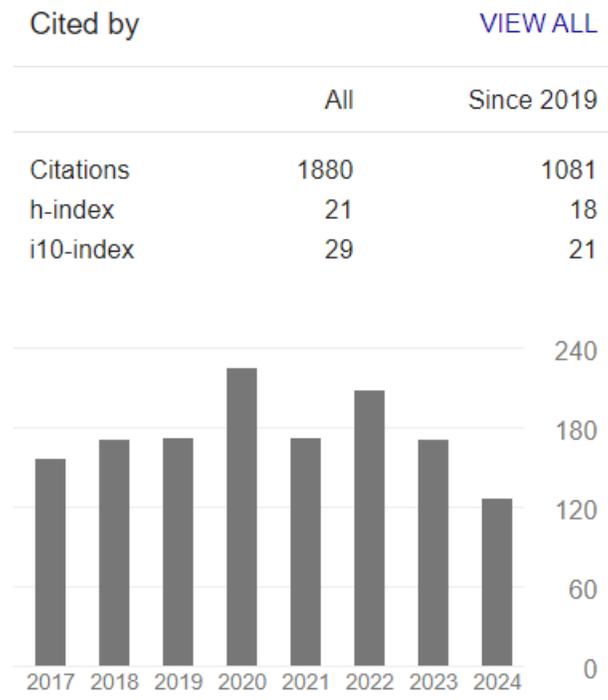
55% Teaching 35% Research/Creative Activity 10% Service/Outreach 0% Admin

HONORS AND AWARDS

1. 2023 – Department of Construction Management **Outstanding Faculty Service Award** for the 2022-2023 Academic year
2. 2021 – Faculty Coach of the CSU VDC **competition** team; placed **second** at the virtual Annual Associated Schools of Construction (ASC) Open/National Competition
3. 2019 – Master’s advisee, Azin Heidari, selected as the **CSU graduate student finalist** for consideration of the Western Association of Graduate Schools (**WAGS**) ProQuest Award in **Innovation and Technology** category. There was only one possible Master’s or Doctoral Nominee from CSU in Innovation and Technology category and three mater’s nominees in three other available categories.
4. 2019 - **BEPAM Highly Commended Paper** in 2018. Issa, R.A., Olbina, S. and Zuppa, D. (2018). "Model for developing trust on US construction projects", Built Environment Project and Asset Management Journal, Vol. 8 Issue: 1, pp.5-23 (it is one of only three papers that were “Highly Commended”)
5. 2019 - Associated Schools of Construction (ASC) Regional **Teaching Award** (Region 6)
6. 2018 – **Best Poster Award** (1st place in International Division) at the *2018 American Society for Engineering Education (ASEE) Annual Conference and Exposition*, Salt Lake City, UT (2018). Valdes-Vasquez, R., Olbina, S., Clevenger C., and Thornes, L. (2018). “Cross-cultural collaboration inspired by a sustainable building course in Costa Rica”. The poster abstract was peer-reviewed.
7. 2018 - Associated Schools of Construction (ASC) Regional **Teaching Award** (Region 6)
8. 2018 – Faculty Coach of the CSU VDC **competition** team; placed **first** (out of 12 teams) at the Annual Associated Schools of Construction (ASC) Open/National Competition in Reno, NV
9. 2017 - **Best Paper Award** at the *Associated Schools of Construction's 53rd Annual International Conference*, Seattle, Washington, USA. Elliott, J., Olbina, S., and Natesan, M.* (2017). “A comparison of realized benefits of BIM implementation on commercial building and parking garage projects.”
10. 2016 - Faculty Coach of the CSU VDC **competition** team; placed **third** (out of 12 teams) at the Annual Associated Schools of Construction (ASC) Open/National Competition in Reno, NV
11. 2015 - **Best Paper Award** in Empirical Modeling category at *INFOCOMP 2015: The Fifth International Conference on Advanced Communications and Computation*, Brussels, Belgium. Raheem, A.,* Issa, R., Olbina, S., and Flood, I. (2015). “Environmental performance evaluation of different glazing-sunshade systems using simulation tools.”
12. 2015 – Faculty Coach of the University of Florida Residential **competition** team; placed **third** (out of 34 teams) at the Annual NAHB National Competition in Las Vegas, NV
13. 2015 - **Outstanding Reviewer** status for the *Automation in Construction* Journal
14. 2010 - The College of Design, Construction and Planning (DCP) nominee for the University of Florida Excellence Award for Assistant Professors to Support Research
15. Excellence **Award** for Assistant Professors to Support **Research**, University of Florida, \$5,000
16. 2001- present - Member of Sigma Lambda Chi, The International Honor Society for Construction

CV SECTION 2: Publications/Scholarly Record

PUBLISHED WORKS



Svetlana Olbina's h-index (Source: Google Scholar, September 28, 2024)

Note: Asterisk symbol (*) identifies a graduate student as an author or co-author of the publication.

Books:

1. Issa, R.R.A. and Olbina, S. (Editors) (2015). *Building Information Modeling: Applications and Practices*. Reston, VA: American Society of Civil Engineers (cited 20 times).
2. Kibert, C., Olbina, S., Oppenheim, P., Ries, R. and Walters, R. (2010). *Life Cycle Cost Guidelines for Materials and Building Systems for Florida's Public Educational Facilities*. Florida Department of Education. Tallahassee, Florida, pp. 1-152

Refereed Journal Articles:

1. Collins, W., Salman, A., Olbina, S., and Mosier, R. (2024). Scientometric, Thematic, and Methodological Analysis of IJCER Construction Education Focused Publications – 2004 - 2023. *International Journal of Construction Education and Research*, 1–22. <https://doi.org/10.1080/15578771.2024.2404019>
2. Saadatian, A. and Olbina, S. (2024), Barriers to the implementation of energy-efficiency practices in the U.S. retail sector: facilities managers' perceptions compared by facility size and business revenue, *Facilities*, Vol. 42 No. 7/8, pp. 622-640. <https://doi.org/10.1108/F-11-2023-0095>
3. Elliott, J., and Olbina, S. (2023). Benefits and obstacles to the adoption of reality capture technologies in the U.S. commercial and infrastructure construction sectors, *Buildings* 2023, Volume 13, Issue 3, 576, DOI: <https://doi.org/10.3390/buildings13030576>
4. Olbina, S., & Glick, S. (2022). Using Integrated Hands-on and Virtual Reality (VR) or Augmented

Reality (AR) Approaches in Construction Management Education. *International Journal of Construction Education and Research*, 1-20. doi:10.1080/15578771.2022.2115173

5. Love, H.*, Valdes-Vasquez, R., Olbina, S. Cross, J. & Ozbek, M. (2021) Is cultivating reciprocal learning the gold standard for high impact pedagogies?, *Higher Education Research & Development*, DOI: 10.1080/07294360.2021.1896483
6. Heidari, A.*, Olbina, S., and Glick, S. (2020). Automated positioning of anchors for personal fall arrest systems for steep-sloped roofs. *Buildings* 2021, Volume 11, Issue 10, pp. 1-26, DOI: <https://dx.doi.org/10.3390/buildings11010010>
7. Olbina, S., and Elliott, J. (2019). Contributing project characteristics and realized benefits of successful BIM implementation: A Comparison of complex and simple buildings. *Journal Buildings*, Volume 9, Issue 8, pp. 1-19. DOI: 10.3390/buildings9080175
8. Moreno, C.*, Olbina, S., and Issa, R. (2019). BIM Use by Architecture, Engineering, and Construction (AEC) industry in educational facility projects. *Advances in Civil Engineering Journal*; Special Issue on "Advanced BIM Applications in the Construction Industry". Volume 2019. DOI 10.1155/2019/1392684
9. Issa, R., Olbina, S., and Zuppa, D.* (2018). Model for developing trust on US construction projects, *Built Environment Project and Asset Management Journal*, Volume 8, Issue 1, pp. 1-23. (BEPAM Highly Commended Paper in 2018). DOI 10.1108/BEPAM-03-2017-0017
10. Hinze, J., Olbina, S., Orozco, J.*, and Beaumont, K.* (2017). Earthmoving equipment fatalities in construction industry, *ASCE's Practice Periodical on Structural Design and Construction*, Volume 22, Issue 4, pp. 1-8.
11. Zuppa, D.*, Olbina, S., and Issa, R., (2016). Perceptions of trust in the US construction industry, *Engineering, Construction and Architectural Management Journal*, Volume 23, Issue 2, pp. 211 – 236.
12. Raheem, A.*, Issa, R., and Olbina, S. (2016). Environmental performance and economic analysis of different glazing-sunshade systems using simulation tools. *ASCE Journal of Computing in Civil Engineering*, Volume 30, Issue 5.
13. Reeves, T.*, Olbina, S., and Issa, R. (2015). Guidelines for using building information modeling for environmental analysis of buildings. *Journal Buildings, Special Issue BIM in Building Lifecycle*, Volume 5, Issue 4.
14. Raheem, A.*, Issa, R., and Olbina, S. (2014). Solar transmittance analysis of different types of sunshades in the Florida climate. *Building Simulation: An International Journal*, Volume 7, Issue 1, pp. 3-11.
15. Qi, J.*, Issa, R., Olbina, S. and Hinze, J. (2014). Use of BIM in design to prevent construction worker falls. *ASCE Journal of Computing in Civil Engineering*, Volume 28, Number 5, Special Issue: 2012 International Conference on Computing in Civil Engineering.
16. Hu, J.*, and Olbina, S. (2014). A simulation-based model for the integrated daylighting system design. *ASCE Journal of Computing in Civil Engineering*, Volume 28, Number 5, Special Issue: 2012 International Conference on Computing in Civil Engineering, 2014.
17. Bynum, P.*, Issa, R., and Olbina, S. (2013). Building information modeling in support of sustainable design and construction. *ASCE Journal of Construction Engineering and Management*, Volume 139, Issue 1, pp. 24-34.

18. Olbina, S. and Hu, J.* (2012). Daylighting and thermal performance of automated split-controlled blinds. *Journal Building and Environment*. Volume 56, October 2012, pp. 127-138.
19. Joannides, M.*, Olbina, S., and Issa, R. (2012). Implementation of Building Information Modeling into accredited programs in architecture and construction education. *International Journal of Construction Education and Research* (Journal of Associated Schools of Construction). *Special Issue: Building Information Modeling (BIM)*. Volume 8, Issue 2, pp. 83-100.
20. Joannides, M.*, Issa, R. and Olbina, S. (2011). Implementation of Building Information Modeling into existing architecture and construction educational curricula. *Journal of Building Information Modeling*, Fall 2011, pp. 29-31.
21. Olbina, S., Hinze, J. and Arduengo, C.* (2011). Drug testing practices in the U.S. construction industry. *Journal Construction Management and Economics*. Volume 29, Issue 10, pp. 1043-1057.
22. Olbina, S., Hinze, J., and Ruben, M.* (2011). Safety practices of roofing contractors that employ Hispanic workers. *Professional Safety - Journal of the American Society of Safety Professionals*, April 2011, pp. 44-52.
23. Hu, J.*, and Olbina, S. (2011). Illuminance-based slat angle selection model for automated control of split blinds. *Journal Building and Environment*, Volume 46, Issue 3, March 2011, pp. 786-796.
24. Hinze, J., and Olbina, S. (2009). Empirical analysis of the learning curve principle in pre-stressed concrete piles. *ASCE Journal of Construction Engineering and Management*. Volume 135, Number 5, May 2009, pp. 425-431.
25. Olbina, S., and Beliveau, Y. (2009). Developing a transparent shading device as a daylighting system. *Building Research and Information Journal*, Volume 37, Issue 2, pp. 148-163.
26. Olbina S., Grosskopf, K., Johns, T., and Scicchitano, M. (2008). Perceptions of scholarly standards in technical publication. *International Journal of Construction Education and Research*. Volume 4, Issue 3, pp. 210-226.
27. Olbina, S. (2008). Improving the delivery system for teaching the project planning and feasibility/site development course to building construction undergraduate students and real estate graduate students. *International Journal of Construction Education and Research*. Volume 4, Issue 1, January 2008, pp. 46-64.
28. Olbina, S., and Beliveau, Y. (2007). Decision-making framework for selection and design of shading devices based on daylighting. *Journal of Green Building*, Volume 2, Number 3, Summer, 2007, pp. 88-105.

Accepted journal papers:

1. Lima, J., Hazin Alencar L, and Olbina S. Framework for implementing an Agile-BIM in Brazilian public organizations based on the value-focused thinking method. *Engineering, Construction and Architectural Management* journal, accepted on August 28, 2024.

Refereed Chapters in Books:

1. Olbina, S. (2007). Windows: Shading devices. In: *Encyclopedia of Energy Engineering and Technology*. Barney Capehart, editor, Taylor & Francis, London, United Kingdom, pp. 1641 - 1648.

2. Olbina, S. (1997). *Primena aluminijumskih konstrukcija u procesu bioklimatske rehabilitacije (Application of Aluminum Structures in the Process of Bioclimatic Rehabilitation.)*. Poglavlje u monografiji Unapredjenje i razvoj stanovanja (Refereed Chapter in Monograph "Advancement and Development of Housing"). School of Architecture, University of Belgrade. Belgrade, Yugoslavia, pp. 539-561.

Refereed Proceedings/Transactions:

1. Oluniyi, A.* and Olbina, S. (2024). Integration of Augmented Reality (AR) in Construction Management (CM) Education: Bibliometric Literature Review. In: *Proceedings of 2024 American Society for Engineering Education (ASEE) Annual Conference and Exposition*, Portland, OR.
2. Lima, J.*, Hazin Alencar, L, and Olbina, S. (2024). Contract Management for BIM-based Projects: A Bibliometric Literature Review. In: *Proceedings of Associated Schools of Construction's 60th Annual International Conference*, Auburn, Alabama, USA
3. Wahl, T.*, Valdes Vasquez, R. and Olbina, S. (2024). Opportunities for Improving Water Certification on LBC Projects in Semi-Arid Climates: Colorado Case. In: *Proceedings of Associated Schools of Construction's 60th Annual International Conference*, Auburn, Alabama, USA.
4. Valdes-Vasquez, R., Olbina, S. Clevenger, C., and Ozbek, M. (2024). Video Tours of Sustainable Building Projects on Campus: A Practical Approach to Teaching Sustainability. In *Proceedings of International Structural Engineering and Construction, 11(1), 2024 Leading Construction Technology Systems for Today's Environmental and Social Crises*, Edited by Villacís, E., Ayarza, C., Bucheli, J., Miranda, H., Flórez-Estrada, M., Yazdani, S., and Singh, A.
[www.doi.org/10.14455/ISEC.2024.11\(1\).EPE-XXX](http://www.doi.org/10.14455/ISEC.2024.11(1).EPE-XXX)
5. Karbasi, A.*, Olbina, S. & Elliott, J. (2022). Implementation of Laser Scanning and Photogrammetry in the US Commercial Building Sector, In: *Proceedings of Associated Schools of Construction's 58th Annual International Conference*, Atlanta, Georgia, USA
6. Saadatian, A.* & Olbina, S. (2022). Case Study: Construction Site Utilization Planning for Custom Multifamily Residential Developments, In: *Proceedings of Associated Schools of Construction's 58th Annual International Conference*, Atlanta, Georgia, USA
7. Valdes-Vasquez, R., Clevenger C., Olbina, S., and Thornes, L. (2018). Cross-cultural collaboration inspired by a sustainable building course in Costa Rica. In: *Proceedings of 2018 American Society for Engineering Education (ASEE) Annual Conference and Exposition*, Salt Lake City, UT, pp. 1-9.
8. Olbina, S., Mehany, M. and Jesse, K. (2018). Service Learning Project (SLP) implementation and assessment in a Construction Management program – A case study, In: *Proceedings of Associated Schools of Construction's 54th Annual International Conference*, Minneapolis, Minnesota, USA, pp. 207-214.
9. Elliott, J., Olbina, S., and Natesan, M.* (2017). A comparison of realized benefits of BIM implementation on commercial building and parking garage projects, In: *Proceedings of Associated Schools of Construction's 53rd Annual International Conference*, Seattle, Washington, USA (Best Paper Award), pp. 423-433.
10. Raheem, A.,* Issa, R., Olbina, S., and Flood, I. (2015). Environmental performance evaluation of different glazing-sunshade systems using simulation tools. In: *INFOCOMP 2015: The Fifth International Conference on Advanced Communications and Computation*, Brussels, Belgium (Best Paper Award in Empirical Modeling category), pp. 134-139.

11. Moreno, C.*, Olbina, S., and Issa, R. (2014). Use of Building Information Modeling for the design and construction of educational facilities. In: *Proceedings of 2014 ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCB E)*, Orlando, Florida, USA, pp. 447-454.
12. Raheem, A.*, Issa, R., and Olbina, S. (2014). Impacts of different window-shading assemblies on energy, thermal comfort and daylighting for a south facing mid-rise office building in Florida. In: *Proceedings of 2014 ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCB E)*, Orlando, Florida, USA, pp. 585-592.
13. Ock, J.*, Issa, R. and Olbina, S. (2014). Climate responsive automatic operation strategies for double-skin façade (DSF) system of high-rise buildings. In: *Proceedings of ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCB E)*, Orlando, Florida, USA, pp. 917-924.
14. Feng, L.*, Olbina, S., and Issa, R. (2014). Implementation of Building Information Modeling on K-12 educational facility projects in Florida. In: *Proceedings of Associated Schools of Construction's 50th Annual International Conference*, Washington, DC, USA, pp. 1-8.
15. Hu, J.*, and Olbina, S. (2013). An expert system based on OpenStudio platform for evaluation of daylighting system design. In: *Proceedings of 2013 ASCE International Workshop on Computing in Civil Engineering (ASCE IWCCE)*, Los Angeles, USA, pp. 186-193.
16. Reeves, T.*, Olbina, S., and Issa, R. (2012). Validation of building energy modeling tools: Ecotect™, Green Building Studio™ and IES<VE>™. Invited paper in: *Proceedings of 2012 Winter Simulation Conference (WSC 2012)*, Berlin, Germany, pp. 582-593.
17. Liu, R.*, Issa, R.R.A., and Olbina, S. (2012). 3D Visualization of sub-surface pipelines in connection with the building utilities: Integrating GIS and BIM for facility management. In: *Proceedings of 14th International Conference on Computing in Civil and Building Engineering (ICCCBE 2012)*, Moscow, Russia, Proceedings on the CD, pp. 1-8.
18. Giel, B.*, Issa, R., and Olbina, S. (2012). Quality and maturity of BIM implementation within the AECO industry. In: *Proceedings of 14th International Conference on Computing in Civil and Building Engineering (ICCCBE 2012)*, Moscow, Russia, Proceedings on the CD, pp. 1-8.
19. Hu, J.* and Olbina, S. (2012). Radiance-based model for optimal selection of window systems. In: *Proceedings of 2012 ASCE International Conference on Computing in Civil Engineering*, Clearwater Beach, Florida, USA, pp. 634-641.
20. Reeves, T. J.*, Olbina, S., and Issa, R.R. (2012). Guidelines for using Building Information Modeling (BIM) for environmental analysis of high-performance buildings. In: *Proceedings of 2012 ASCE International Conference on Computing in Civil Engineering*, Clearwater Beach, Florida, USA, pp. 277-284.
21. Qi, J.*, Issa, R. R. A., Hinze, J., and Olbina, S. (2012). A fall hazard checking tool based on BIMServer. In: *Proceedings of 2012 ASCE International Conference on Computing in Civil Engineering*, Clearwater Beach, Florida, USA, pp. 357-364.
22. Raheem, A.*, Issa, R.R.A., and Olbina, S. (2012). Assessing IECC energy saving potential for residential construction in Florida. In: *Proceedings of 2012 ASCE International Conference on Computing in Civil Engineering*, Clearwater Beach, Florida, USA, pp. 650-657.

23. Vangimalla, P.*, Olbina, S., Issa, R., and Hinze, J. (2011). Validation of Autodesk Ecotect™ accuracy for thermal and daylighting simulations. Invited paper in *Proceedings of 2011 Winter Simulation Conference (WSC 2011)*, Phoenix, Arizona, USA, pp. 3388-3399.
24. Qi, J.*, Issa, R., Hinze, J., and Olbina, S. (2011). Integration of safety in design through the use of Building Information Modeling. In: *Proceedings of 2011 ASCE International Workshop on Computing in Civil Engineering*, Miami, Florida, USA, pp. 698-705.
25. Raheem, A.*, Issa, R., and Olbina, S. (2011). Environmental performance analysis of a single family house using BIM. In: *Proceedings of 2011 ASCE International Workshop on Computing in Civil Engineering*, Miami, Florida, USA, pp. 842-849.
26. Qi, J.*, Issa, R.R.A., Hinze, J. and Olbina, S. (2010). Integration of construction safety in design and construction education through the use of BIM. In: *Proceedings of Ecobuild America*, Washington, DC, USA, Proceedings on the CD, pp.1-8.
27. Giel, B.*, Issa, R., and Olbina, S. (2010). Return on investment analysis for Building Information Modeling in construction. In: *Proceedings of the International Conference on Computing in Civil and Building Engineering (ICCCBE 2010)*, Nottingham, United Kingdom, Proceedings on the CD, pp.153-158.
28. Liu, R.*, Issa, R., and Olbina, S. (2010). Factors influencing the adoption of Building Information Modeling in the AEC Industry. In: *Proceedings of the International Conference on Computing in Civil and Building Engineering (ICCCBE 2010)*, Nottingham, United Kingdom, Proceedings on the CD, pp. 139-145.
29. Zhang, L.*, Issa, R. and Olbina, S. (2010). A Web-based on-demand information extraction system for Building Information Models. In: *Proceedings of the International Conference on Computing in Civil and Building Engineering (ICCCBE 2010)*, Nottingham, United Kingdom, Proceedings on the CD, pp. 187-192.
30. Hinze, J., Taminosian, Z.*, and Olbina, S. (2010). The effect of illuminance on task performance. In: *Proceedings of CIB World Building Congress*, Manchester, United Kingdom, pp. 147-159.
31. Issa, R.R., Suermann P.*, and Olbina S. (2009). Use of Building Information Models in simulations. In: *Proceedings of the 2009 Winter Simulation Conference (WSC 09)*, Austin, TX, USA, pp. 2264-2271.
32. Olbina, S., Hinze, J. and Issa, R. (2009). Developing a strategy for integration of designing for construction worker safety and Building Information Modeling. In: *Proceedings of CIB W99 Conference 2009 Working Together: Planning, Designing and Building a Healthy and Safe Construction Industry*, Melbourne, Australia, Proceedings on the CD, pp. 39-47.
33. Hinze, J. and Olbina, S. (2009). Current U.S. drug testing practices. In: *Proceedings of CIB W099 Conference 2009 Working Together: Planning, Designing and Building a Healthy and Safe Construction Industry*, Melbourne, Australia, Proceedings on the CD, pp. 2-10.
34. Olbina, S., and Issa, R. (2009). Development of an automated split control system for blinds. In: *Proceedings of 2009 ASCE International Workshop on Computing in Civil Engineering*, Austin, Texas, USA, pp. 328-337.
35. Olbina, S. (2009). Split controlled blinds as a thermal and daylighting environmental control system. In: *Proceedings of 3rd CIB International Conference on Smart and Sustainable Built Environments (SASBE 2009)*, Delft, Netherlands, Proceedings on the CD, pp. 1-9.

36. Winning, D.*, Olbina, S., and Ries, R. (2009). Case studies of two Florida architects' residential passive design strategies and recommendations for today's developers. In: *Proceedings of 3rd CIB International Conference on Smart and Sustainable Built Environments (SASBE 2009)*, Delft, Netherlands, Proceedings on the CD, pp. 1-8.
37. Olbina, S., and Grosskopf, K. (2008). Perceptions of scholarly standards and peer review guidelines in technical publication. In: *Proceedings of Associated Schools of Construction's 44th Annual International Conference*. Auburn, Alabama, USA, Proceedings on the CD, pp. 1-16.
38. Olbina, S., and Hinze, J. (2008). Problem areas in personal fall protection. In: *Proceedings of 14th Rinker International Conference CIB W99 Evolution of and Directions in Construction Safety and Health*. Gainesville, Florida, USA, pp. 406-418.
39. Olbina, S. (2007). A delivery system for the project planning and feasibility/site development course. In: *Proceedings of Associated Schools of Construction's 43rd Annual International Conference*. Flagstaff, Arizona, USA, Proceedings on the CD, pp. 1-15.
40. Olbina, S. (2006). Model for an automated split control of shading devices. In: *Proceedings of 12th Rinker International Conference, Rethinking Sustainable Construction 2006: Next Generation Green Buildings*, Sarasota, Florida, USA, Proceedings on the CD, pp. 1-28.
41. Celik, B.*, Kibert, C., Grosskopf, K., Olbina, S., and Aytug, H. (2006). A methodology to optimize indoor air quality in commercial buildings. In: *Proceedings of 12th Rinker International Conference, Rethinking Sustainable Construction 2006: Next Generation Green Buildings*, Sarasota, Florida, USA, Proceedings on the CD, pp. 1-32.
42. Olbina, S. and Beliveau, Y. (2006). Application of 3D modeling software for daylighting simulation of shading devices. In: *Proceedings of 6th International Conference on Construction Applications of Virtual Reality (CONVR 2006)*, Orlando, Florida, USA. Proceedings on the CD, pp.1-12.
43. Olbina, S. and Beliveau, Y. (2006). Transparent shading device as daylighting system. In: *Proceedings of 2006 Architectural Engineering National Conference: Building Integration Solutions*. Omaha, Nebraska, USA, Proceedings on the CD, pp. 1-15.
44. Olbina, S. (2005). New teaching/learning methodology in the Computer and Graphic Communications course. In: *Proceedings of Associated Schools of Construction's 41st Annual International Conference*. Cincinnati, Ohio, USA, Proceedings on the CD, pp. 1-10.
45. Olbina, S., and Beliveau Y. (2004). Decision-making framework for selection and design of a shading device based on daylighting performance. In: *Proceedings of International Conference Performance of Exterior Envelopes of Whole Buildings IX*. Clearwater Beach, Florida, USA, Proceedings on the CD, pp. 1-15.
46. Olbina, S. (1998). Mogucnosti primene zid-zavesa na stambenim zgradama (The possibilities of curtain-wall application in residential buildings). *Naucni skup Unapredjenje stanovanja '98*. (In: *Proceedings of National Conference Advancement of Housing '98*). Belgrade, Yugoslavia, pp. 139-144.
47. Olbina, S. (1998). Mogucnosti za prevazilazenje energetske krize u gradovima primenom solarne energije (Use of solar energy to mitigate energy problems at the urban scale). *Alternativni izvori energije i buducnost njihove primene u Jugoslaviji* (In: *Proceedings of National Conference Alternative Energy Sources and Their Future Application in Yugoslavia*). Budva, Yugoslavia, pp. 122-129.

48. Olbina, S. (1997). Aluminum construction application in production of greenhouses. In: *Proceedings of 7th International Conference on Solar Energy at High Latitudes North Sun 97*. Espoo-Otaniemi, Finland, pp. 633-640.
49. Ivanovic-Sekularac, J., and Olbina, S. (1996). Location, choosing of location and orientation of objects of pre-school institution. In: *Proceedings of International Conference Architecture and Urbanism at the Turn of the III Millennium*. Belgrade, Yugoslavia, pp. 469-472.
50. Olbina, S., and Ivanovic-Sekularac, J. (1996). Ventilated curtain wall. In: *Proceedings of International Conference Architecture and Urbanism at the Turn of the III Millennium*. Belgrade, Yugoslavia, pp. 169-174.
51. Olbina, S. (1996). Razvoj sistema zid-zavesa (Development of curtain wall systems). *Prvi medjunarodni simpozijum "Industrijsko inzenjerstvo '96."* (In: *Proceedings of the First International Symposium Industrial Engineering 96*). Belgrade, Yugoslavia.
52. Olbina, S. (1995). Energetsko-ekoloski aspekti u tradicionalnoj arhitekturi Vojvodine. (Energy and ecological aspects of traditional architecture in Vojvodina). *Naucni skup Unapredjenje i dalji razvoj stanovanja u visespratnim stambenim zgradama* (In: *Proceedings of National Conference Advancement and Further Development of Housing: Multi-storey Apartment Buildings*). Nis, Yugoslavia, pp. 463-472.
53. Olbina, S. (1994). Prednosti primene drveno-alumijumskih prozora na stambenim zgradama (Advantages of using aluminum-clad wood windows in residential buildings). *Naucni skup Unapredjenje stanovanja '94*. (In: *Proceedings of National Conference Advancement of Housing*). Belgrade, Yugoslavia.

Non-Refereed Journal Articles/Chapters/Proceedings/Transactions:

1. Valdes-Vasquez, R., Olbina, S., Clevenger, C., and Thornes, L. (June, 2018). Cross-cultural collaboration inspired by a sustainable building course in Costa Rica. *Poster at the 125th American Society for Engineering Education Conference, Salt Lake City, UT*. Poster abstract was peer-reviewed. (1st Place, International Division Award).

Other (e.g. lab texts, book reviews, technical reports, in-house reports):

1. Olbina, S. (2020). Use of Virtual Reality (VR) and Augmented Reality (AR) in Construction and Engineering Education to Improve Student Learning and Communication Skills. Technical report submitted to *Engineering Information Foundation (EIF)*. 29 pages.
2. Olbina, S. (2019). Implementing Heavy Civil BIM in Heavy Civil Construction. *Technical report submitted to Beavers Charitable Trust*. 22 pages.
3. (2017). Reviewer of Academic Interoperability Coalition (AiC) BIM Body of Knowledge (BOK) Report. Authors: Wu, W., Mayo, G., McCuen, T., Issa, R. and Smith, D. 33 pages.
4. (2005). Reviewer of Solar Engineering Pocket Reference, presented by International Solar Energy Society. Authors Martin, C. and Goswami, Y. 88 pages.

PERFORMANCES, EXHIBITS, PRODUCTIONS (Visual/Performing Arts):

Juried Activities ((Performances/Exhibits/Productions, Compositions/Arrangements, Productions, Technical Directions, Production Design, et. al.)

March 5, 2024, Olyniyi, A.* and Olbina S. Augmented Reality Integration in Construction Management

Education: Current State of the art and Future Directions, Poster at the *CHHS Research Day*, CSU Lori Student Center, Fort Collins, Colorado.

March 1, 2022. Saadatian, A.*, and Olbina S. Implementation of Energy Efficiency Practices into U.S. Retail Sector by Facilities Managers, Poster at the *CHHS Research Day*, CSU Lori Student Center, Fort Collins, Colorado.

March 10, 2020. Heidari, A.*, Glick, S., and Olbina S. Automated Positioning of Anchors for Personal Fall Arrest Systems for Sloped Roofs, Poster at the *CHHS Research Day*, CSU Lori Student Center, Fort Collins, Colorado. Abstract was reviewed.

April 1, 2016 Judge; *Multicultural Undergraduate Research, Art & Leadership Symposium (MURALS)*, CSU

CONTRACTS & GRANTS

Externally-Funded Projects as PI

- (2019) *Use of Virtual Reality (VR) and Augmented Reality (AR) in Construction and Engineering Education to Improve Student Learning and Communication Skills*, Svetlana Olbina (PI), Engineering Information Foundation (EIF), \$19,715. Disciplinary project.
- (2018-2019) *Implementing Heavy Civil BIM in Heavy Civil Construction*, Svetlana Olbina (PI), Beavers Charitable Trust Grant, \$15,692. Disciplinary project.
- (2012) *Concept Proposal for the Sustainability Quantification for Building and Infrastructure Design, Engineering and Construction (S²QBIDEC) Workshop*, Svetlana Olbina (PI), National Science Foundation (NSF) and American Society of Civil Engineers (ASCE), \$1,050.

Externally-Funded Projects as CoPI

- (2012 - 2013) *Energy Conservation Features of New Homes in Florida 2012-2013*, Svetlana Olbina (CoPI) with Raymond Issa (PI) from Rinker School of Construction Management, Florida Department of Business and Professional Regulations, \$11,370. Disciplinary project.
- (2009 - 2010) *Life Cycle Guidelines for Materials and Building Systems for Florida's Public Educational Facilities*, Svetlana Olbina (CoPI) with Charles Kibert (PI), Paul Oppenheim (CoPI), Robert Ries (CoPI) and Russel Walters (CoPI), all from Rinker School of Construction Management, Florida Department of Education, \$25,922. Disciplinary project.
- (2008) *Phase I (AECOO-1) buildingSMART alliance Project 2008-STP-01*, Svetlana Olbina (CoPI) with Raymond Issa (PI) from Rinker School of Construction Management, The buildingSMART alliance, the Open Geospatial Consortium, Inc. (OGC) and Sponsors of the AECOO (Architecture, Engineering, Construction, Owner and Operator), No money value. Interdisciplinary project.

Externally-Funded Pending Projects as PI

None

Externally-Funded Pending Projects as CoPI

None

Internally-Funded Awards

- (2018-2019) *Integrating Virtual Reality (VR) to Enhance Construction Management (CM) and Civil Engineering (CE) Education*; Svetlana Olbina (PI) with Jon Elliot, Rodolfo Valdes-Vasquez, John Killingsworth (from the Department of Construction Management) and Rebecca Atadero (from the Department of Civil Engineering) as CoPIs; CSU Office of the Vice President for Research FY2017 Quarterly Strategic Investment Process, \$93,294 (funded by OVRP (19%), CHHS (13%), CM Dept. (53%), CE Dept. (4%), Mortenson Construction (11%)). Interdisciplinary project.
- (2013-2016) 2013 Rinker Doctoral Scholarship Award: *Model for Identifying Quantitative Sustainability Indicators on Building Projects*, Svetlana Olbina (PI), University of Florida, Rinker School of Building Construction, \$39,480. Disciplinary project.
- (2012 – 2014) 2012 GW Robinson Master Student Assistantship Award: *Building Information Modeling (BIM) Guide for Design and Construction of Educational Facilities*, Svetlana Olbina (PI), University of Florida, Rinker School of Building Construction, \$28,706. Disciplinary project.
- (2010 – 2013) 2010 Rinker Doctoral Scholarship Award: *Decision-Making Framework for Selection of Daylighting/ Electrical Lighting Systems for K-12 Educational Facilities*, Svetlana Olbina (PI), University of Florida, Rinker School of Building Construction, \$21,000. Disciplinary project.
- (2010 – 2012) 2010 GW Robinson Master Student Assistantship Award: *Guidelines for Using Building Information Modeling (BIM) for Environmental Analysis of High-performance Buildings*, Svetlana Olbina (PI), University of Florida, Rinker School of Building Construction, \$27,230. Disciplinary project.
- (2010) DCP Summer 2010 Research Award: *Validation of BIM Energy Analysis Software Ecotect: Case Study of Rinker Hall*, Svetlana Olbina (PI), University of Florida, College of Design, Construction and Planning, \$4,810. Disciplinary project.
- (2009) DCP Travel Award Fall 2009: *Support for a presentation of the papers at the CIB W099 Conference 2009 Working Together: Planning, Designing and Building a Healthy and Safe Construction Industry, Melbourne, Australia, October 2009*. Svetlana Olbina (PI), University of Florida, College of Design, Construction, and Planning, \$500.
- (2009) DCP Travel Award Spring 2009: *Support for a presentation of the papers at the 3rd CIB International Conference on Smart and Sustainable Built Environments (SASBE 2009), Delft, Netherlands, June 2009*, Svetlana Olbina (PI), University of Florida, College of Design, Construction, and Planning, \$500.
- (2008) DCP Summer 2008 Research Award: *Advanced Window System with Split Controlled Blinds*; Svetlana Olbina (PI), University of Florida, College of Design, Construction and Planning, \$4,789. Disciplinary project.
- (2008) New Faculty Support Program Grant: *Support for the Preparation of the NSF proposal: “High-performance Window System with Split Controlled Blinds”*, Svetlana Olbina (PI), University of Florida, School of Natural Resources and Environment (SNRE); \$5,000. Disciplinary project.
- (2007 – 2009) 2007 GW Robinson Master Student Assistantship Award: *Model for an Automated Split Control of Shading Devices*, Svetlana Olbina (PI), University of Florida, Rinker School of Building Construction, \$24,459. Disciplinary project.
- (2007) *Integration of Research between the Shimberg Center for Affordable Housing and the Rinker School Faculty*, Svetlana Olbina (Investigator), University of Florida, Rinker School of Building Construction, Shimberg Center for Affordable Housing, \$11,690. Disciplinary project.

- (2007) DCP Travel Award Spring 2007: *Support for a presentation of the paper at the Associated Schools of Construction's 43rd Annual International Conference*. Flagstaff, Arizona, Svetlana Olbina (PI), University of Florida, College of Design, Construction, and Planning, \$500.
- (2006) DCP Summer 2006 Research Award: *Model for an Automated Split Control of Shading Devices*, Svetlana Olbina (PI), University of Florida, College of Design, Construction and Planning, \$5,702. Disciplinary project.

Un-Funded Projects as PI or CoPI

At Colorado State University

- (2024) “*AI-Assisted Construction Worker Safety and Health: A Delphi Study Towards a Strategic Integration Framework*,” Ziyu Jin (PI), Svetlana Olbina (Co-PI) from the Department of Construction Management, Mountain and Plains Education and Research Center (MAP ERC), \$14,038.
- (2024) “*STEADY (Sustainability Training and Education using AR/VR Directed at Youth)*,” Marie Vans (PI) and Steve Simske (Co-PI) from the Department of Systems Engineering, Svetlana Olbina (Co-PI) from the Department of Construction Management. CSU SOGES, \$29,990. Interdisciplinary project.
- (2023) *Lifelong Homes & Communities: Redefining Homes for 21st Century Challenges through Community-Engaged Research and Design*, Svetlana Olbina (Co-PI) with Elicia Ratajczyk from the CSU Institute for the Built Environment (IBE) (PI), Maria Delgado from the Department of Design and Merchandising (Co-PI), and Carly Johansson from Housing Catalyst (Co-PI), SOM Foundation Research Prize 2023, \$40,000. Interdisciplinary project.
- (2023) “*FW-HTF-RM: Immersive Virtual Reality Training for Improving Safety in the Off-Shore Wind Energy Sector*”, Svetlana Olbina (PI) with Co-PIs: Marie Vans (CSU Dept. of Systems Engineering), Steven Simske (CSU Dept. of Systems Engineering), Jill Zarestky (CSU School of Education), Anne Cleary (CSU Dept. of Psychology), Boris Nikolaev (CSU College of Business), Gretchen Macht (University of Rhode Island (URI), Dept. of Mechanical, Industrial and Systems Engineering), Chris Baxter (URI, Depts. Ocean/Civil and Environmental Engineering), Vinka Oyanedel-Craver (URI, Dept. of Civil and Environmental Engineering), National Science Foundation (NSF), \$ 999,046. Interdisciplinary project.
- (2022) “*Collaborative Research: The Role of Working Environment Dynamism, Personality Trait, Cultural Difference, and Emotional Distress in Worker Risk Perception*.” Mahmoud Shakouri, PI, Svetlana Olbina, CoPI, NSF, \$235,450. Collaborative Proposal.
- (2021) “*LiDAR-VR Integration for Improving Traffic Flow in Frontage-Road Ramp Work Zones*”, Mahmoud Shakouri, PI, Svetlana Olbina, CoPI, and Jon Elliott, CoPI, Colorado Department of Transportation, \$147,504, Research Problem Statement (7 pages).
- (2020) SoGES 2021 Sustainability Curriculum Innovation Grants Proposal, Ashley (C.M.) Rathmann as PI, Svetlana Olbina as CoPIs, CSU SoGES, \$4,912. Interdisciplinary proposal.

Ashley (C.M.) Rathman, a faculty member in Interior Architecture and Design, and I both teach sustainability-related courses in our corresponding Departments. We proposed the development of a new interdisciplinary sustainability course that would be open to students from various disciplines at CSU and would be housed in Richardson Design Center (RDC) and SoGES. The

new course would enhance students' opportunities to learn in an integrative and collaborative environment and learn interdisciplinary strategies used in real-world professional practice. Ashley and I equally contributed to the development of the proposal.

- (2019) *Colorado Lifelong Homes Certification Program*, Svetlana Olbina (CoPI) with Lise Youngblade (PI) from the Department of Human Development and Family Studies, Scott Glick (CoPI) from the Department of Construction Management, Laura Malinin (CoPI) from the Department of Design and Merchandising; and Brian Dunbar (CoPI) and Elicia Ratajczyk (CoPI) from the CSU Institute for the Built Environment (IBE), Next50 Initiative, \$150,000. Interdisciplinary project.
- (2019) *Centennial Lifelong Homes*, Svetlana Olbina (CoPI) with Lise Youngblade (PI) from the Department of Human Development and Family Studies, Scott Glick (CoPI) from the Department of Construction Management, Laura Malinin (CoPI) from the Department of Design and Merchandising; and Brian Dunbar (CoPI) and Elicia Ratajczyk (CoPI) from the CSU Institute for the Built Environment (IBE), City of Centennial, \$129,989. Interdisciplinary project.
- (2019) *Forest Fire Impacts on Soil Health and Communities*, Svetlana Olbina (CoPI) with Dr. Thomas Borch (PI) and Mike Wilkins (CoPI) both from the Department of Soil and Crop Sciences, Tim Covino (CoPI) from Ecosystem Science and Sustainability, Joe Zadrozny (CoPI) from the Department of Chemistry, Lori Catalano (CoPI) from the Department of Horticulture and Landscape Architecture and Dr. Charles Rhoades (CoPI) from the United States Forest Service (USFS); CSU School of Global Environmental Sustainability (SoGES), \$19,500. Interdisciplinary project.
- (2018) *An App for Automated Selection of Sloped Roof Anchor Points for Personal Fall Arrest Systems*, Svetlana Olbina (PI), with Scott Glick (CoPI), National Roofing Contractors Association (NRCA), \$20,471. Disciplinary project.
- (2018) *Development of Pilot Rating System for the Colorado Lifelong Homes Certification Program*, Svetlana Olbina (Research Team Member) with Jennifer Cross from the Department of Sociology (PI), Brian Dunbar from the Institute for the Built Environment (CoPI), Scott Glick from the Department of Construction Management (Research Team Member) and Elicia Ratajczyk from the Institute for the Built Environment (Project Manager); The Columbine Health Systems Center for Healthy Aging and the Office of the Vice President for Research (OVPR): The Research and Scholarly Success Initiative, \$35,000. Interdisciplinary project.
- (2018) *Automated Selection of Anchor Points for Personal Fall Arrest Systems (PFAS)*, Svetlana Olbina (PI), with Scott Glick (CoPI), The Center for Construction Research and Training CPWR, Letter of Intent for CPWR Small Study Program, \$29,931. Disciplinary project.
- (2018) *A Study of the U.S. Roofing Industry and its Workforce*, Svetlana Olbina (PI) with Rodolfo Valdes-Vasquez (CoPI), National Roofing Contractors Association (NRCA), \$69,643. Disciplinary project.
- (2018) *Human Activity Sensing for Energy Efficiency*, Svetlana Olbina (CoPI) with Bruce Draper (PI) from the Department of Computer Science, Scott Glick (CoPI) from the Department of Construction Management, Dan Zimmerle (CoPI) from the CSU Energy Institute, Patricia Aloise-Young (CoPI) from the Department of Psychology, Juyeon Park (CoPI) from the Department of Design and Merchandising, and Kelly Martin (CoPI) from the School of Business. Department of Energy (DOE) Advanced Research Projects Agency (ARPA). A Concept Paper in response to Energy (ARPA-E) Funding Opportunity Announcement (FOA) DE-FOA-0001737 SENSOR, \$2.9 million + \$169,000 cost share. Interdisciplinary project.
- (2018) *Construction Safety Action Plan to Prevent Falls*, Svetlana Olbina (PI), with Chad Olivier (CoPI)

from the Department of Construction Management and Steve Cox (CoPI) from PCL Construction, Associated General Contractors (AGC) Education and Research Foundation, proposal for Educational Case Study, \$9,000. Disciplinary project.

- (2017) *Integrating Heavy Civil Building Information Modeling (BIM) into the Construction Management Curriculum and in Heavy Civil Construction Industry*, Svetlana Olbina (PI), Kiewit University Relations Academic Program Partnership & Zipper Plan, \$11,710. Disciplinary project.
- (2017) *Redesign: Challenges and Opportunities for the Integration of Mechanical Contractor Input within BIM-based Collaborative Project Delivery*; Svetlana Olbina (PI), with Jon Elliott (CoPI), Rodolfo Valdes-Vasquez (CoPI), and John Killingsworth (CoPI) all from the Department of Construction Management and Jason Ranz (CoPI) from US Engineering Mechanical Construction Company (CoPI). The Mechanical Construction Education and Research Foundation (MCERF), \$25,000. Disciplinary project.
- (2017) *Construction Site Logistics Planning with the Use of BIM*, 2018 Associated General Contractors (AGC) Foundation Educational Case Studies, Svetlana Olbina (PI), with Mark Austin (CoPI) from Saunders Construction, \$9,000. Disciplinary project.
- (2017) *Homebuilding Education Leadership Program (HELP) 2018*, Svetlana Olbina (CoPI) with Scott Glick (PI), National Housing Endowment, \$100,000. Disciplinary project.
- (2017) *Service-learning Implementation in Construction Management Education in the United States*; Svetlana Olbina (CoPI) with Mohammed Mehany (PI); Spencer Foundation; \$49,983. Disciplinary, service-learning project.
- (2016) *Learning BIM Practices during the Preconstruction Phase – Understanding the Benefits and Limitations*, Svetlana Olbina (CoPI), with Rodolfo Valdes-Vasquez (PI), and Chris Araujo (CoPI) and Justin Grant (CoPI) both from Morley Builders; Associated General Contractors (AGC), \$9,000. Disciplinary project.
- (2016) *Homebuilding Education Leadership Program (HELP) 2017*, Svetlana Olbina (CoPI) with Scott Glick (PI), National Housing Endowment, \$100,000. Disciplinary project.
- (2015) *Homebuilding Education Leadership Program (HELP) 2016*, Svetlana Olbina (CoPI) with Scott Glick (PI), National Housing Endowment, \$100,000. Disciplinary project.

At the University of Florida

- (2014) *NSF CyberSEES: Type 2: Collaborative Research: Dynamically Reconfigurable Buildings Through Computing for a Sustainable Future*, Svetlana Olbina (CoPI) with Prabir Barooah (PI) and Herbert Ingley (CoPI) both from the Department of Mechanical and Aerospace Engineering, Prabhat Mishra (CoPI) from the Department of Computer and Information Science and Engineering, and Timothy Middelkoop (CoPI) from the Department of Industrial and Systems Engineering, National Science Foundation (NSF), revised proposal (resubmission), \$1,200,000. Interdisciplinary project.
- (2013) *NSF CyberSEES: Type 2: Dynamically Reconfigurable Buildings Through Computing for a Sustainable Future*, Svetlana Olbina (CoPI) with Prabir Barooah (PI), Herbert Ingley (CoPI) and Nam Kim (CoPI) all three from the Department of Mechanical and Aerospace Engineering, and Timothy Middelkoop (CoPI) from the Department of Industrial and Systems Engineering, National Science Foundation (NSF), \$1,200,000. Interdisciplinary project.
- (2013) *CPS: Synergy: Reducing Energy Consumption of Commercial Buildings using Intelligent Control*

- and Coordination of Active Systems – resubmission*, Svetlana Olbina (CoPI) with Ian Flood (PI), Raymond Issa (CoPI), Ravi Srinivasan (CoPI) (all from Rinker School of Construction Management), and Randy Chow (CoPI) from the Department of Computer and Information Science and Engineering, National Science Foundation (NSF), \$836,950. Interdisciplinary project.
- (2012) *Building Information Modeling (BIM) Guidelines for Florida’s Public Educational Facilities*, Svetlana Olbina (PI), with Charles Kibert (CoPI) and Raymond Issa (CoPI), Florida Department of Education, \$150,000. Disciplinary project.
- (2012) *CPS: Breakthrough: Reducing Energy Consumption of Commercial Buildings Using Intelligent Control and Coordination of Active Systems*, Svetlana Olbina (CoPI) with Ian Flood (PI), Raymond Issa (CoPI), and Ravi Srinivasan (CoPI), all from Rinker School of Construction Management, National Science Foundation (NSF), \$730,827. Disciplinary project.
- (2010) *Comparative Study of Oral Fluids and Urine Analysis for Drug Testing*, Multiple PIs, Svetlana Olbina (PI) and Jimmie Hinze (PI), The National Institute for Occupational Safety and Health (NIOSH), \$119,621. Disciplinary project.
- (2010) *Excellence Awards for Assistant Professors to Support Research*, PI, University of Florida, \$5,000
- (2010) *Energy Efficient Building Systems Regional Innovation Cluster Initiative – Automated Adaptation of Split-Blind Controls for Net-Zero Energy Buildings* - pre-proposal in collaboration with University of Central Florida, Svetlana Olbina (CoPI) with Sumi Helal (PI) from the Department of Computer and Information Science and Engineering and Raymond Issa (CoPI) from Rinker School of Construction Management, A joint FOA by the Department of Energy, the Department of Commerce—Economic Development Administration, the Department of Commerce—National Institute of Standards and Technology, the Small Business Administration, the Department of Labor, the Department of Education, and the National Science Foundation, \$1,193,450. Interdisciplinary project.
- (2009) *Towards a Net Zero Energy Florida: A statewide model for energy use within the built environment - Initiative* – pre-proposal, Svetlana Olbina (CoPI) with Ian Flood (PI), Charles Kibert (CoPI), and Robert Ries (CoPI), all from Rinker School of Construction Management, and Mark Jamison (CoPI) from Warrington College of Business Administration, Congressional Appropriations Request Fiscal Year 2011, \$1,262,250. Interdisciplinary project.
- (2009) *Application of Building Information Modeling (BIM) in Designing for Construction Worker Safety (DCWS) – resubmission*, Multiple PIs, Svetlana Olbina (PI), Jimmie Hinze (PI) and Raymond Issa (PI), all from Rinker School of Construction Management, The National Institute for Occupational Safety and Health (NIOSH), \$358,143. Disciplinary project.
- (2009) *Integration of Building Information Modeling (BIM) and Designing for Construction Worker Safety (DCWS) – Resubmission*, Svetlana Olbina (PI) with Jimmie Hinze (CoPI) and Raymond Issa (CoPI), all from Rinker School of Construction Management, National Science Foundation (NSF), \$315,103. Disciplinary project.
- (2009) *Automated Split Blind and Lighting Control System – resubmission*, Svetlana Olbina (PI), with Raymond Issa (CoPI) and Ian Flood (CoPI) from Rinker School of Construction Management and Sumi Helal (CoPI) from the Department of Computer and Information Science and Engineering, National Science Foundation (NSF), \$320,257. Interdisciplinary project.
- (2009) *Technical Subtopic 3.1: Optimized Split-Blind Controls for Net-Zero Energy Buildings*, Svetlana

- Olbina (PI), Raymond Issa (CoPI), Ian Flood (CoPI), Robert Ries (CoPI), all from Rinker School of Construction Management, and Sumi Helal (CoPI) from the Department of Computer and Information Science and Engineering, Department of Energy (DOE), \$620,343. Interdisciplinary project.
- (2009) *Optimized Intelligent Control System for Split Blinds and Interior Lighting*, Svetlana Olbina (PI), Raymond Issa (CoPI), Ian Flood (CoPI), all from Rinker School of Construction Management, and Sumi Helal (CoPI) from the Department of Computer and Information Science and Engineering, National Institute for Standards and Technology (NIST), \$375,313. Interdisciplinary project.
- (2009) *Automated Split Blind and Lighting Control System*, Svetlana Olbina (PI), Raymond Issa (CoPI), Ian Flood (CoPI), all from Rinker School of Construction Management, and Sumi Helal (CoPI) from the Department of Computer and Information Science and Engineering, National Science Foundation (NSF), \$299,800. Interdisciplinary project.
- (2009) *Integration of Building Information Modeling (BIM) and Designing for Construction Worker Safety (DCWS)*, Svetlana Olbina (PI) with Jimmie Hinze (CoPI) and Raymond Issa (CoPI), all from Rinker School of Construction Management, National Science Foundation (NSF), \$243,952. Disciplinary project.
- (2008) *Application of Building Information Modeling (BIM) in Designing for Construction Workers Safety (DCWS)-preproposal*, Svetlana Olbina (CoPI) with Jimmie Hinze (PI) and Raymond Issa (CoPI) from Rinker School of Construction Management, Charles Pankow Foundation, \$190,000. Disciplinary project.
- (2008) *Application of Building Information Modeling (BIM) in Designing for Construction Worker Safety (DCWS)*, Multiple PIs, Svetlana Olbina (PI) with Jimmie Hinze (PI) and Raymond Issa (PI) from Rinker School of Construction Management, The National Institute for Occupational Safety and Health (NIOSH), \$284,893. Disciplinary project.
- (2008) *Development of an Automated Split Control System for Blinds*, Svetlana Olbina (PI), with Raymond Issa (CoPI) from Rinker School of Construction Management and Sumi Helal (CoPI) from the Department of Computer and Information Science and Engineering, National Science Foundation (NSF), \$297,952. Interdisciplinary project.
- (2008) *Developing Effective Training in Small Roofing Companies*, Svetlana Olbina (CoPI), Jimmie Hinze (PI) and Kevin Grosskopf (CoPI) from Rinker School of Construction Management, CPWR - The Center for Construction Research and Training, \$290,053. Disciplinary project.
- (2008) *Protocol for Experimental Testing of the Exterior Aluminum Louvers Manufactured by Superior Window Corporation, Miami, Florida*, Svetlana Olbina (PI) and Raymond Issa (CoPI) from Rinker School of Construction Management, Superior Window Corporation, Miami, Florida, \$70,000. Disciplinary project.
- (2008) *Analysis of NBIMS for Comprehensive Coverage of Environmentally Sustainable Design, Construction, and Operation Processes and Practices*, Svetlana Olbina (CoPI) with Robert Ries (PI), Raymond Issa (CoPI) and Patrick Suermann (CoPI), all from Rinker School of Construction Management, US Green Building Council (USGBC), \$149,916. Disciplinary project.
- (2008) *Project to Create a Building Information Modeling Curriculum for the Associated General Contractors of America*, Svetlana Olbina (CoPI) with Raymond Issa (PI) and Patrick Suermann (CoPI), all from Rinker School of Construction Management, Associated General Contractors (AGC), \$414,000. Disciplinary project.

- (2008) *Cost Benefits of Using the Split Controlled Blinds as a Daylighting System*, Svetlana Olbina (PI), Electri International Early Career Award (EIECA), \$10,000
- (2008) *High-performance Window System with Integrated Split Controlled Blinds – preproposal*, Svetlana Olbina (PI), US Green Building Council (USGBC): Green Building Research, \$40,766
- (2007) *High-performance Window System with Transparent Blinds*, Svetlana Olbina (PI) with Raymond Issa (CoPI) and Larry Muszynski (CoPI), all from Rinker School of Construction Management, Dow Building Solutions/Nine Sigma. Green, Alternative Construction Techniques for Residential Home, \$50,000. Disciplinary project.
- (2007) *Advanced Window System with Split Controlled Blinds*, Svetlana Olbina (PI), University of Florida, College of Design, Construction and Planning Summer 2007 Research Award, \$4,924
- (2006) *CAREER: Model for an Automated Split Control of Shading Devices – resubmission*, Svetlana Olbina (PI), National Science Foundation (NSF), \$399,776
- (2006) *Gulf States Consortium for Improving Energy Efficiency in Public Buildings*, Svetlana Olbina (CoPI), collaboration among Auburn University, Mississippi State University, Louisiana State University, and University of Florida. Department of Energy (DOE), \$100,000 (University of Florida's part of the budget). Interdisciplinary project.
- (2006) *Design for Deconstruction and Disassembly (DfDD): Closing Material Loops in Construction*, Svetlana Olbina (CoPI) with Charles Kibert (PI), Kevin Grosskopf (CoPI) and Esther Obonyo (CoPI), all from Rinker School of Construction Management, National Science Foundation (NSF), \$457,188. Disciplinary project.
- (2005) *Decision Model to Optimize Indoor Air Quality (IAQ) in Commercial Buildings*, Svetlana Olbina (CoPI) with Charles Kibert (PI), and Kevin Grosskopf (CoPI), all from Rinker School of Construction Management, National Science Foundation (NSF), \$228,007. Disciplinary project.
- (2005) *Smart Fenestration Systems for Tomorrow's Zero Energy Buildings*, Svetlana Olbina (CoPI) with Georg Reichard (PI) from Virginia Tech, Michael Garvin (CoPI) from Virginia Tech, and Kostas Papamichael (CoPI) from the University of California in Davis, Department of Energy (DOE), \$1,296,358. Interdisciplinary project.
- (2005) *CAREER: Model for an Automated Split Control of Shading Devices*, Svetlana Olbina (PI), National Science Foundation (NSF), \$381,623

PAPERS PRESENTED/ SYMPOSIA/ INVITED LECTURES/ PROFESSIONAL MEETINGS/ WORKSHOPS

Note: Asterisk symbol (*) indicates invited presentations and workshops

Invited presentations/lectures:

1. * February 16, 2023. Invited online lecture on *Sustainable Construction Practices* to the graduate students in the Civil Engineering program at the University of Pernambuco in Recife, Brazil. Invited by Dr. Emilia Rabani, Associate Professor.
2. *March 10, 2020. *Integration of Virtual Reality (VR) and Augmented Reality (AR) into the Construction Management Curriculum*. CHHS Research Day, Lory Student Center. I represented Department of Construction Management and was one of the eight invited speakers at the Research Day. Each Department/School in the College had one representative/invited speaker.

3. *September 30, 2016. *Building Information Modeling (BIM) at Colorado State University /Colorado*. 2016 bimSMART Summit at the University of New Mexico, Invited Speaker, Albuquerque, NM. They contacted me because of my expertise in BIM area and initiated my presentation.
4. *May 23, 2016. *Sustainable Building Systems*. Symposium for Sustainable Infrastructure, organized by American Society of Civil Engineering (ASCE) Colorado Section, Invited Speaker, Boulder, CO. They contacted me because of my expertise in sustainability area and initiated my presentation.
5. *December 11-14, 2011. *Validation of Autodesk Ecotect™ Accuracy for Thermal and Daylighting Simulations*. 2011 Winter Simulation Conference (WSC 2011), Refereed Invited Paper, Phoenix, AZ.
6. *May 26, 2005. *Daylighting in Buildings as a Sustainable Strategy*. Student Chapter of American Solar Energy Society (ASES), University of Florida, Invited Lecture, Gainesville, FL.

Workshops:

7. *April 10-13, 2019. Invited to facilitate *BIM in Curriculum* discussion track at *Associated Schools of Construction's 55th Annual International Conference*, Denver, Colorado, USA. They contacted me because of my expertise in BIM area and initiated my facilitation.
8. November 7-9, 2012. *Sciences behind Sustainability Quantification for Building and Infrastructure Design, Engineering and Construction (S²QBIDEC) Workshop* sponsored by National Science Foundation (NSF) that was held alongside the 2012 International Conference on Sustainable Design, Engineering, & Construction (ICSDEC 2012), Panelist, Fort Worth, TX.

Papers presented:

9. April 3-6, 2024. Lima, J.*, Hazin, L, and Olbina, S. (2024). *Contract Management for BIM-based Projects: A Bibliometric Literature Review*. Refereed paper presented at Associated Schools of Construction's 60th Annual International Conference, Auburn, Alabama, USA
10. April 20-23, 2022. Karbasi, A.*, Olbina, S. & Elliott, J. *Implementation of Laser Scanning and Photogrammetry in the US Commercial Building Sector*. Refereed paper presented at Associated Schools of Construction's 58th Annual International Conference, Atlanta, Georgia, USA.
11. April 18-21, 2018. *Service Learning Project (SLP) Implementation and Assessment in a Construction Management Program – A Case Study*. Refereed paper co-presented with Mohamed Mehany and Khristy Jesse at Associated Schools of Construction's 54th Annual International Conference, Minneapolis, Minnesota, USA.
12. April 5-8, 2017. *A Comparison of Realized Benefits of BIM Implementation on Commercial Building and Parking Garage Projects*. Refereed paper co-presented with Jon Elliott at Associated Schools of Construction's 53rd Annual International Conference, Seattle, Washington, USA.
13. January 28-29, 2015. *Implementation of Building Information Modeling on K-12 Educational Facility Projects in Florida (abstract)*, Presentation at the University of Florida; Design, Construction, and Planning College Research Symposium, Gainesville, FL.
14. March 26-28, 2014. *Implementation of Building Information Modeling on K-12 Educational Facility Projects in Florida*. Refereed paper presented at Associated Schools of Construction's 50th Annual International Conference, Washington, DC, USA.

15. June 17-20, 2012. *Guidelines for Using Building Information Modeling (BIM) for Environmental Analysis of High-performance Buildings*. Refereed paper presented at ASCE International Conference on Computing in Civil Engineering, Clearwater Beach, FL.
16. February 18, 2011. *Validation of Autodesk Ecotect BIM Environmental Analysis Software Using Rinker Hall as a Case Study*. Presentation at the University of Florida, College of Design, Construction and Planning Research Showcase, Gainesville, FL.
17. June 30-July 2, 2010. *Return on Investment Analysis for Building Information Modeling in Construction*. Refereed paper presented at the International Conference on Computing in Civil and Building Engineering (ICCCBE 2010), Nottingham, United Kingdom.
18. June 30-July 2, 2010. *Factors Influencing the Adoption of Building Information Modeling in the AEC Industry*. Refereed paper presented at the International Conference on Computing in Civil and Building Engineering (ICCCBE 2010), Nottingham, United Kingdom.
19. October 21–23, 2009. *Developing a Strategy for Integration of Designing for Construction Worker Safety and Building Information Modeling*. Refereed paper presented at the CIB W099 Conference 2009 Working Together: Planning, Designing and Building a Healthy and Safe Construction Industry, Melbourne, Australia.
20. October 21–23, 2009. *Current U.S. Drug Testing Practices*. Refereed paper presented at the CIB W99 Conference 2009 Working Together: Planning, Designing and Building a Healthy and Safe Construction Industry, Melbourne, Australia.
21. June 25-27, 2009. *Development of an Automated Split Control System for Blinds*. Refereed paper presented at the 2009 ASCE International Workshop on Computing in Civil Engineering, Austin, Texas.
22. June 15-19, 2009. *Split Controlled Blinds as a Thermal and Daylighting Environmental Control System*. Refereed paper presented at the 3rd CIB International Conference on Smart and Sustainable Built Environments (SASBE 2009), Delft, Netherlands.
23. June 15-19, 2009. *Case Studies of Two Florida Architects' Residential Passive Design Strategies and Recommendations for Today's Developers*. Poster presented at 3rd CIB International Conference on Smart and Sustainable Built Environments (SASBE 2009), Delft, Netherlands.
24. April 23–26, 2008. *Fostering Citizen Participation in the Creation of Sustainable Communities*. Presentation at the 38th Annual Meeting of the Urban Affairs Association. Baltimore, Maryland, Refereed abstract.
25. April 2-5, 2008. *Perceptions of Scholarly Standards and Peer Review Guidelines in Technical Publication*. Refereed paper presented at the Associated Schools of Construction's 44th Annual International Conference, Auburn, Alabama.
26. April 4, 2008. *Advanced Window System with Split Controlled Blinds*. Poster presentation at the University of Florida, College of Design, Construction and Planning (DCP) Research Showcase, Gainesville, Florida.
27. March 9-11, 2008. *Problem Areas in Personal Fall Protection*. Refereed paper presented at the 14th Rinker International Conference CIB W99 Evolution of and Directions in Construction Safety and Health. Gainesville, Florida.

28. April 11-14, 2007. *A Delivery System for the Project Planning and Feasibility/Site Development Course*. Refereed paper presented at the Associated Schools of Construction's 43rd Annual International Conference, Flagstaff, Arizona.
29. September 19-22, 2006. *Model for an Automated Split Control of Shading Devices*. Refereed paper presented at the 12th Rinker International Conference, Rethinking Sustainable Construction 2006: Next Generation Green Buildings, Sarasota, Florida.
30. August 3-4, 2006. *Application of 3D Modeling Software for Daylighting Simulation of Shading Devices*. Refereed paper presented at the 6th International Conference on Construction Applications of Virtual Reality (CONVR 2006), Orlando, Florida.
31. March 29–April 1, 2006. *Transparent Shading Device as Daylighting System*. Refereed paper presented at the 2006 Architectural Engineering National Conference: Building Integration Solutions. Omaha, Nebraska.
32. April 6-9, 2005. *New Teaching/Learning Methodology in the Computer and Graphic Communications Course*. Refereed paper presented at the Associated Schools of Construction's 41st Annual International Conference. Cincinnati, Ohio.
33. December 5-10, 2004. *Decision-Making Framework for Selection and Design of a Shading Device Based on Daylighting Performance*. Refereed paper presented at the International Conference Performance of Exterior Envelopes of Whole Buildings IX. Clearwater Beach, Florida.
34. June 1997. *Aluminum constructions' application in production of greenhouses*. Poster presentation at International Conference on Solar Energy at High Latitudes North Sun 97.
35. 1994. *Prednosti primene drveno-alumijumskih prozora na stambenim zgradama (Advantages of using aluminum-clad wood windows in residential buildings)*. Presentation at Naucni skup Unapredjenje stanovanja '94. (National Conference Advancement of Housing). Belgrade, Yugoslavia.

Papers presented by Graduate and Undergraduate Advisees:

1. June 23-26, 2024. *Integration of Augmented Reality (AR) in Construction Management (CM) Education: Bibliometric Literature Review*. Refereed paper presented at 2024 American Society for Engineering Education (ASEE) Annual Conference and Exposition, Portland, Oregon, USA.
2. April 3-6, 2024. *Opportunities for Improving Water Certification on LBC Projects in Semi-Arid Climates: Colorado Case*. Refereed paper presented at Associated Schools of Construction's 60th Annual International Conference, Auburn, Alabama, USA.
3. April 20-23, 2022. *Case Study: Construction Site Utilization Planning for Custom Multifamily Residential Developments*, Refereed paper presented at Associated Schools of Construction's 58th Annual International Conference, Atlanta, Georgia, USA.
4. June 23-25, 2014. *Use of Building Information Modeling for the Design and Construction of Educational Facilities*. Refereed paper presented at the 2014 ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCBE), Orlando, Florida.
5. June 23-25, 2014. *Impacts of Different Window-shading Assemblies on Energy, Thermal Comfort and Daylighting for a South Facing Mid-rise Office Building in Florida*. Refereed paper presented at the 2014 ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCBE), Orlando, Florida.

6. June 23-25, 2014. *Climate Responsive Automatic Operation Strategies for Double-skin Façade (DSF) System of High-rise Buildings*. Refereed paper presented at the 2014 ASCE International Conference on Computing in Civil and Building Engineering (ASCE ICCCBE), Orlando, Florida.
7. June 23-25, 2013. *An Expert System Based on OpenStudio Platform for Evaluation of Daylighting System Design*. Refereed paper presented at the 2013 ASCE International Workshop on Computing in Civil Engineering (ASCE IWCCE), Los Angeles.
8. June 17-20, 2012. *Radiance-Based Model for Optimal Selection of Window Systems*. Refereed paper presented at the 2012 ASCE International Conference on Computing in Civil Engineering, Clearwater Beach, Florida.
9. June 17-20, 2012. *A Fall Hazard Checking Tool Based on BimServer*. Refereed paper presented at the 2012 ASCE International Conference on Computing in Civil Engineering, Clearwater Beach, Florida.
10. June 17-20, 2012. *Assessing IECC Energy Saving Potential for Residential Construction in Florida*. Refereed paper presented at the 2012 ASCE International Conference on Computing in Civil Engineering, Clearwater Beach, Florida.
11. June 19-22, 2011. *Integration of Safety in Design Through the Use of Building Information Modeling*. Refereed paper presented at the 2011 ASCE International Workshop on Computing in Civil Engineering, Miami, Florida.
12. June 19-22, 2011. *Environmental Performance Analysis of a Single Family House Using BIM*. Refereed paper presented at the 2011 ASCE International Workshop on Computing in Civil Engineering, Miami, Florida.

CV SECTION 3: EVIDENCE OF TEACHING AND ADVISING EFFECTIVENESS

TEACHING:

I have taught the following courses at Colorado State University since Fall 2015.

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u> <u>(Sections</u> <u>x Cr. Hrs.)</u>	<u>Enrollment</u>	<u>SCH</u>
2024	Fall	CON 131 Graphic Communications for Construction	3x2=6	54	108
2024	Spring	CON 476 Sustainable Practices in Design and Construction	1x3=3	26	78
2024	Spring	CON 521 Sustainable Building & Infrastructure Systems	1x3 =3	7	21
2023	Spring	CON 151 Construction Materials and Methods	1x3=3	36	108
2023	Spring	CON 476 Sustainable Practices in Design and Construction	1x3=3	34	102
2022	Fall	CON 131 Graphic Communications for Construction	1x2=2	17	34

2022	Fall	CON 151 Construction Materials and Methods	1x3=3	40	120
2022	Spring	CON 476 Sustainable Practices in Design and Construction	1x3=3	33	99
2021	Fall	CON 131 Graphic Communications for Construction	3x2 =6	39	78
2021	Spring	CON 476 Sustainable Practices in Design and Construction	1x3=3	55	165
2020	Fall	CON 131 Graphic Communications for Construction	1x2 =2	16	32
2020	Fall	CON 476 Sustainable Practices in Design and Construction	1x3=3	48	144
2020	Spring	CON 131 Graphic Communications for Construction	1x2 =2	23	46
2020	Spring	CON 521 Sustainable Building & Infrastructure Systems	1x3 =3	11	33
2019	Fall	CON 151 Construction Materials and Methods	2x3=6	77	231
2019	Fall	CON 476 Sustainable Practices in Design and Construction	1x3=3	35	105
2019	Spring	CON 131 Graphic Communications for Construction	2x2 =4	35	70
2019	Spring	CON 521 Sustainable Building & Infrastructure Systems	1x3 =3	16	48
2018	Fall	CON 151 Construction Materials and Methods	1x3=3	43	129
2018	Fall	CON 476 Sustainable Practices in Design and Construction	1x3=3	35	105
2018	Spring	CON 131 Graphic Communications for Construction	2x2=4	39	78
2018	Spring	CON 151 Construction Materials and Methods	1x3=3	39	117
2017	Fall	CON 476 Sustainable Practices in Design and Construction	1x3=3	34	102
2017	Fall	CON 131 Graphic Communications for Construction	1x2=2	19	38
2017	Spring	CON 131 Graphic Communications for Construction	2x2=4	34	72
2017	Spring	CON 521 Sustainable Building & Infrastructure Systems	1x3=3	14	42
2016	Fall	CON 131 Graphic Communications for Construction	3x2=6	54	108
2016	Spring	CON 131 Graphic Communications for Construction	3x2=6	60	120
2015	Fall	CON 131 Graphic Communications for Construction	4x2=8	74	148

Other Teaching Responsibilities that Did Not count as a Teaching Load

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>	<u>SCH</u>
2022	Fall	CON 384 Supervised College Teaching	1	1	1
2022	Spring	CON 684 Supervised College Teaching	2	1	2
2022	Spring	CON 699 Thesis	3	1	3
2021	Fall	CON 384 Supervised College Teaching	1	2	2
2021	Summer	CON 695 Independent Study	1	2	2
2021	Spring	CON 699 Thesis	3	2	6
2020	Spring	CON 384 Supervised College Teaching	2	1	2
2019	Spring	CON 384 Supervised College Teaching	2	1	2
2019	Spring	CON 699 Thesis	3	1	3
2018	Fall	CON 699 Thesis	3	1	3
2018	Fall	CON 695 Independent Study	2	1	2

2018	Summer	CON 695 Independent Study	1	1	1
2018	Spring	CON 384 Supervised College Teaching	1	2	2
2017	Fall	CON 384 Supervised College Teaching	1	1	1
2017	Fall	CON 699 Thesis	1	1	1
2017	Summer	CON 699 Thesis	1	1	1
2017	Spring	CON 384 Supervised College Teaching	1	2	2
2017	Spring	CON 450: Travel Abroad Sustainable Buildings (team-taught 33%)	3	15	45
2017	Spring	CON 799 Dissertation: Construction Engineering and Management	3	1	3
2016	Fall	CON 384 Supervised College Teaching	1	2	2
2016	Fall	CON 699 Thesis	3	1	3
2016	Fall	CON 799 Dissertation: Construction Engineering and Management	3	1	3
2016	Summer	CON 695 Independent Study	1	1	1
2016	Spring	CON 450: Travel Abroad Sustainable Buildings (team-taught 33%)	3	18	54
2016	Spring	CON 384 Supervised College Teaching	1	2	2
2016	Spring	CON 699 Thesis	3	1	3
2015	Fall	CON 384 Supervised College Teaching	1	2	2

Participation in Professional Development Activities Related to Teaching

Note: Activities that had a diversity/equity/inclusion component are marked with asterisk symbol (*).

At Colorado State University

- Attended CSU's 2024 **TILT** Summer Conference "Supporting Today's Student", May 15-16, 2024
- Attended **Let's Play Carbon Crunch – A Game for Climate Action Planning**, a three-hour PDI/In Person, January 9, 2024.
- Attended the **Systematic Reviews and Evidence Synthesis workshop** led by CSU Libraries – four one-hour sessions in Fall 2023
- Attended 11th International Conference on **Engineering Education for Sustainable Development** conference, June 18-21, 2023, Fort Collins, CO
- Attended **2023 BIM BOP** – The 17th Annual University of Southern California (USC) BIM Virtual Conference hosted by USC; June 9, 2023.
- Attended CSU's 2023 **TILT** Summer Conference "Explore and Embrace Equitable Assessment Practices", May 17-18, 2023
- Attended **2022 BIM BOP** – The 16th Annual University of Southern California (USC) BIM Virtual Conference hosted by USC; July 15, 2022.
- Completed **ASC VDC Bootcamp**, June 28-30, 2022, San Luis Obispo, CA. Three-day workshop on advanced construction information technologies, including Bluebeam Revu, Autodesk Quantity Takeoff and Assemble, StructionSite, DroneDeploy, Procore.
- Participated in **Colorado Climate Transitions Dialogue**, June 6-7, 2022, CSU Lorry Student Center. The participants included researchers, practitioners, government officials, business/industry professionals, philanthropists, NGOs, activists, and students that identified and explored options and pathways responding to climate change in Colorado.

- Attended CSU's 2022 **TILT** Summer Conference on Learning, Teaching, and Critical Thinking; May 18-19, 2022. The conference focused on teaching effectiveness framework, student motivation and engagement, and creating inclusive learning environment, May 18-19, 2022.
- Participated in a round table on **Motivating and Empowering Students** hosted by **ExCEED Community Exchange**, March 24, 2022, one hour.
- CSU Graduate Center for Inclusive Mentoring (**GCIM**) **faculty member** since Fall 2021, attended Mentor Mondays and GCIM faculty meeting; attended GCIM Invited Speaker session, Dean Karen Butler-Purry from Texas A&M spoke about How to Build a Graduate Culture of Inclusive Excellence, Spring 2022.
- Attended "**Autodesk Digital Construction Summer School**"; August 3-5, 2021. Attended 12 45-minute presentations by academicians, industry professionals, and Autodesk education representatives. Participated in two two-hour hands-on training workshops on Autodesk Quantity Take-off software and Autodesk Docs software.
- Attended **2021 BIM BOP** – The 15th Annual University of Southern California (USC) BIM Virtual Conference hosted by USC; June 25, 2021.
- * Completed **Mentor Well Program** offered by CSU Graduate Center for Inclusive Mentoring (GCIM) and **Mentor Well Credential**; June 23-24, 2021. Twelve-hour training comprised eight synchronous sessions: Aligning Expectations, Maintaining Effective Communication, Assessing Understanding, Promoting Independence, Addressing Equity and Inclusion, Fostering Mental Health and Well-being, Fostering Professional Development, Mentoring Capstone: Building out your Mentoring Philosophy. This cohort included 16 faculty from CSU.
- Attended "**ConstructED | Virtual Event**" featuring perspectives from young construction leaders sponsored by Applied Software and DADO, May 20, 2021, 75 minute event.
- Winter 2020 **Autodesk Digital Construction School** on the **Autodesk Construction Cloud**. Three day workshop from Dec.14-16, 2020 (5 hrs+2 hrs+2 hrs). Industry and academic speakers on Assemble, BIM 360, and BIM 360 Asset Management, with additional hands-on sessions on Assemble and Asset Tracking.
- Participated in Summer Institutes in Scientific Teaching Happy Hour (with Robert Talbert) "**Mastery Grading: A First Look**". December 11, 2020, one hour
- *Attended IGEN/CSU **Workshop - Fundamentals: Equity in Graduate Admissions**. October 16, 2020, two hours. The workshop presented how common admissions mindsets and practices tend to inhibit access for underrepresented groups. The workshop introduced strategies for rethinking typical admissions criteria and processes, with a focus on equity-based holistic review and embedding attention to diversity and equity throughout the admissions and recruitment process.
- *Participated in in Summer Institutes in Scientific Teaching Happy Hour (with Marguerite Brickman) "**Closeness at a Distance: How to Build Trust in Virtual Teams**" August 28, 2020, one hour
- Completed the CSU TILT "**Student Motivation**" module of **TILT's Best Practices in Teaching (BPiT) course**, 12 hours over three weeks (July 27 – August 16, 2020). This course on teaching effectiveness covered material on using a range of instructional techniques to promote student motivation, which research on learning has consistently identified as a key factor in academic success. Approaches covered in the course included helping students make connections between course subject matter and their interests, prompting them to make connections across topics, and showing instructor belief in their capacity to succeed.
- Attended **ASCE Exchange workshop on online teaching**, Aug 3-6, 2020 (three-day workshop, 90 minutes each day). The workshop covered the following three topics: Maintaining high student engagement in an online environment; Strategies for building interpersonal rapport with students in different learning environments; Projects, labs, and experiential learning in an online environment.
- Completed the CSU TILT "**First Four Weeks**" module of **TILT's Best Practices in Teaching (BPiT) course**, 12 hours over three weeks. (July 8 - July 26, 2020). This course on effective teaching covered the use of a combination of instructional techniques and low- to medium-stakes early assessments to prepare students for success throughout your course. Approaches covered in the course included priming students' interest in course subject matter, promoting an effective learning environment, and preparing students to succeed on high-stakes assignments.

- Completed the **CSU TILT “Teaching Online”** course, 6 hours over one week (July 13 - July 17, 2020). The course covered material related to building a strong online classroom community, engaging students, and assessing deeper learning, with attention to doing so effectively in large-enrollment sections.
- Attended Summer Institutes in Scientific Teaching Webinar **“Lightning Round Talks: 8 Great Apps for Online Teaching,”** July 15, 2020, one hour
- *Attended the CSU workshop **“Handling Hot Moments in Online Classroom,”** by Fleurette King, Ria Vigil, and Laxmi Shastry, July 15, 2020, one hour
- Participated in Summer Institutes in Scientific Teaching Happy Hour (with Marcos Garcia-Ojeda) **“How Flipped Classes Can Transition Seamlessly to Remote Instruction”**, July, 10, 2020, 90 minutes
- Participated in Summer Institutes in Scientific Teaching Happy Hour **“Fostering Student Motivation”** (with Victoria Hallinan from, Yale), July 3, 2020, 90 minutes
- Completed the **CSU Online/TILT course “Designing Your Online Course”**, 16 hour course over two weeks (June 8 – June 21, 2020). The course covered best practices to design and build an effective online course. During the course I created a partial course map, including module learning objectives, and developed and built part of my online course in Canvas according to a nationally accepted set of standards for course quality.
- Participated in Summer Institutes in Scientific Teaching Happy Hour **“Tips and Tricks for Building Online Courses”**, (with Glen Davenport and Meghan Bathgate) June 19, 2020, one hour
- *Attended the CSU workshop **“What we know about CSU Students’ Needs during Virtual Instruction,”** by Kaciee Collard Jarnot, June 16, 2020, one hour
- *Attended the CSU workshop **“Social Identities in Online Classroom Engagement,”** by Fleurette King, Ria Vigil, and Laxmi Shastry, June 15, 2020, 90 minutes
- Participated in Summer Institutes in Scientific Teaching Happy Hour **“Helping Students Identify & Mitigate Stress & Anxiety”** (with Mays Imad) June 12, 2020, one hour
- Participated in Summer Institutes in Scientific Teaching Happy Hour **“Incorporating Active Learning into Online Teaching”** with Chrissy Spencer (Georgia Tech), June 5, 2020, one hour
- Attended the CSU workshop **“The Student Experience Project @ CSU I: Using your course syllabus to communicate student potential,”** by Lisa Dysleski, June 3, 2020, 90 minutes
- Attended Summer Institutes in Scientific Teaching Webinar **“Applying Principles of Student Engagement to Address the Online Assessment Dilemma,”** with Brian Couch (University of Nebraska-Lincoln), May 22, 2020, one hour
- Attended Summer Institutes in Scientific Teaching webinar with Carl Weiman, May 15, 2020, one hour
- Attended **CSU Faculty Writes** workshop **“Working with Graduate Student Writers”**, April 17, 2020, 90 minutes
- Attended Summer Institutes in Scientific Teaching Webinar **“Quick Tips for Moving Classes Online”**, with Bill Wischusen (Louisiana State University), March 20, 2020, one hour
- Attended Association of College and University Educators **ACUE webinars on online teaching** in Spring 2020 which included six one-hour webinars:
 - Welcoming students to your online environment
 - Managing your online presence
 - Organizing your online course
 - Planning and facilitating quality discussion
 - Recording effective microlectures
 - Engaging students in readings and microlectures
- Completed the **Intergroup Relations Institute**; May 21-23, 2019.
- Attended CSU’s 2019 The Institute for Learning and Teaching (**TILT**) Summer Conference on Learning, Teaching, and Critical Thinking; May 22-23, 2019.
- Completed American Society of Civil Engineers (ASCE) Excellence in Civil Engineering Education (**ExCEED**) Teaching Workshop; July 22-27, 2018, West Point United States Military Academy, NY.

- Completed **Kiewit University** Relations Professional Development Workshop: Building a Stronger Curriculum with Kiewit, June 12-14, 2018, Kiewit University, Omaha, NE.
- Obtained a Certificate in Effective College Instruction through Association of College and University Educators (**ACUE**) course on Effective Teaching Practices.
- Attended CSU's 2018 **TILT** Summer Conference on Learning, Teaching, and Critical Thinking; May 16-17, 2018
- Attended CSU's 2017 **TILT** Summer Conference on Learning, Teaching, and Critical Thinking; May 17-18, 2017
- Attended CSU's 2016 **TILT** Summer Conference on Learning, Teaching, and Critical Thinking, May 18-19, 2016

At the University of Florida

- Completed training in **OSHA Course #500** – Trainer Course in Occupational Safety and Health Standards for the Construction Industry. December 15-18, 2008.
- Attended University of Florida Faculty Development Seminar Series: *Improving Class Dynamics: Addressing Disruptive Student Behavior in the Classroom*. Workshop presented by Dr. Wayne Griffin, Clinical Assistant Professor and Associate Director of the Counseling Center. February 29, 2008.
- Attended University of Florida Fall 2007 Faculty Development Seminar Series: *The Art of Teaching: Using Acting Techniques in the Teaching/Learning Process*. Presented by Gregory W. Justice, Professional Actor and Professor, Department of Theatre Arts, Virginia Tech. October 4, 2007.
- Attended *Design-Build Educator Workshop*, presented by Design-Build Institute of America, June 1- 3, 2006, San Luis Obispo, CA.
- Attended *The Centex Homes 2005 University Faculty Conference*. Conference included workshops on land development, product development, process improvement, safety, IT in construction, and customer satisfaction. Dallas, TX, June 25-27, 2005.

ADVISING:

STUDENT ADVISING/GRADUATE SUPERVISION

UNDERGRADUATE STUDENTS:

0 Current Undergraduate Advisees - None

7 Previous Undergraduate Advisees

4 Undergraduate Advisee – at the Colorado State University

- Trevor Wahl, 2024, Co-advisor
- Brayden Minney, 2023, Honors Option in conjunction with CON 476
- Cyros Strickland, 2022, Honors Option in conjunction with CON 476
- Stephen Wheeler, 2018, Co-Advisor

3 Previous Undergraduate Advisees – at the University of Florida

- Ashley Little, 2011, Co-advisor
- Sean Snowden, 2008, Co-advisor
- Brian Strader, 2006, Co-advisor

GRADUATE STUDENTS:

Current Graduate Advisees:

- Ina Sthapit, Ph.D., Civil and Environmental Engineering, CM Co-Advisor, August 2024 -

present

- Subina Shakya, Master's in Construction Management, Advisor, August 2024 - present
- Abigael Oluniyi, Ph.D., School of Education, CM Co-Advisor, Fall 2022 - present
- Maria Julia Menezes Firmino Lima, Ph.D., Management Engineering, Federal University of Pernambuco (Brazil), Ph.D., Co-Advisor, Spring 2023 – present

Current Graduate Committee Memberships (excluding those chaired):

 0 # Plan C

 0 # Plan B

 3 # MS/MA

 2 # PhD

- Karin Panades, Master's in Civil Engineering, University of Pernambuco, Brazil, Committee Member, Summer 2024-present
- Mitali Vaidyanath, Master's in Construction Management, Committee Member, Summer 2024-present
- Papa Okohene, Master's in Construction Management, Committee Member, Spring 2024-present
- Rahul Chaudhari, Ph.D., Civil and Environmental Engineering, Committee Member, Fall 2023-present
- Kulbir Sandhu, Ph.D., Systems Engineering, Committee Member, Fall 2023-present

Graduate Committee Memberships (for past 4 years at CSU, not including those above)

 0 # Plan C

 0 # Plan B

 5 # MS/MA

- Blackburn, Piper (M.S., report option) Civil and Environmental Engineering – outside committee member, 2020
- Staples, Craig (M.S., report option) Civil and Environmental Engineering – outside committee member, 2020
- Akash Mehta (M.S. Plan A), 2016
- Kacie Shull (M.S. Plan A), 2018
- Tobi Oluwatobi (M.S. Plan A), 2018

Graduate Degrees Completed Under Your Supervision (past 5 years at CSU):

- Armin Saadatian, 2022, (M.S. Plan A) - Advisor
- Ali Karbasi, 2021, (M.S. Plan A) - Advisor
- Azin Heidari, 2019, (M.S. Plan A) – Advisor
- Sanjeev Yogi, 2017, (M.S. Plan A) – Advisor
- Gaurav Odhyan, 2017, (M.S. Plan A) – Advisor
- Manikandan Natesan, 2017, (M.S. Plan B) – Co-advisor

Graduate Degrees Completed Under My Supervision at the University of Florida

37 Graduate Advisees:

3 PhD:

Jia Hu, 2013, Advisor
Brittany Giel, 2013, Co-advisor
Rui Liu, 2012, Co-advisor

Master's

11 Advisor:

Cristina Moreno, 2014
Lingjie Feng, 2013
Thomas Reeves, 2012
Maya Joannides, 2011
Prasanthi Vangimalla, 2009
Deepak Golasangimath, 2009
Kristen Hlad, 2009
Chris Hostetler, 2009
Tahir Edwards, 2009
Dereck Winning, 2008
Paul Wroblewski, 2008

23 Co-Advisor:

Kavya Rishikesh, 2013
Muriel McNamara, 2012
Carolina Valladares, 2011
Cristiane Kreitler, 2011
Trevor Guynes, 2011
Sergio Villanueva-Meyer, 2010
Milind Gholap, 2010
Adeeba Raheem, 2010
Lacinda Cheney, 2010
Patrick Bynum, 2010
Thomas Cobb, 2009
Michelle Updike, 2009
Joshua Walker, 2009
Ayesh Bhagvat, 2009
Brittany Giel, 2009
Romina Mozaffarian, 2009
Jose Ruiz, 2009
Lillard Hollis, 2009
Andrew Mejia, 2008
Amanda Manthorne, 2008
Graham Gilchrist, 2008, Architecture
Ian Bruce Miller, 2008
Joseph Kuehmeier, 2008

47 Graduate Committee Memberships (excluding those chaired):

13 PhD

Philip Barlow, 2015
Jia Niu, 2014
Glenda Mayo, 2014
Adeeba Raheem, 2014
Andrew Wehle, 2014
Le Zhang, 2012
Jia Qi, 2011
Kent Malone, 2010
Wei Wu, 2010
David Shi, 2009
Diodoro Zuppa, 2009
Patrick Suerman, 2009
Bilge Celik, 2006

34 Master's

Marla Holden, 2014
Adrienne Harrow, 2013
Casey Nash, 2013
Ryan Fintel 2012
Christopher Decker, 2011
William Coates, 2011
Sean Morgan, 2010, Architecture
Prakash Subedi, 2010
Mitchell Thurston, 2010
Ashley Lopez, 2009
Drew Jefferson, 2009
Stephen Taminosian, 2009
Robert Lamb, 2009
Sarah Farmerie, 2009
Arora Pranav, 2009
Joshua Morton, 2009
Bradley Hunter, 2009
Christopher Arduengo, 2008
Roya Mozzafarian, 2008
Supriya Ghule, 2008
Matthew Ruben, 2008
Gregory Smith, 2007
Annemarie Sowder, 2007
Maryam Ghatee, 2007
Franklin Hild, 2007
John Begeman, 2007
Edwin Perkins, 2007
Sarah Cain 2007, Interior Design
Kyle Galligar, 2007
Michael Hilley, 2007
Alexis McGuffin, 2007
Kim Mark, 2006
Brian VanderHeyden, 2006
Tench Tilghman, 2006

Theses co-advised with faculty in other disciplines and departments.

Graham Gilchrist, 2008, MS Architecture, co-chair at the University of Florida

Descriptions of Mentoring Activities

- **Supervised College Teaching**

Since Fall 2015, I have mentored 16 undergraduate students that took the CON 384 Supervised College Teaching undergraduate elective course. These students participated in teaching the CON 131 Graphic Communications for Construction course. Students were not only responsible for grading of the course assignments but were also helping during the course labs. Under my supervision, they assisted students working with the AutoCAD and Revit software, answered any questions students had and helped students navigate both the construction documents and software. I also mentored one graduate student who took CON 684 Supervised College Teaching graduate level course. This student participated in teaching CON 476 Sustainable Practices in Design and Construction, including grading of the assignment and teaching a couple of the lectures in the course.

- **Faculty Coach of the CM VDC Student Competition Team**

I have been faculty coach of the CM Virtual Design and Construction (VDC) student competition team since I joined the CM Department in Fall 2015. The team competes in the Annual Associated Schools of Construction (ASC) Open/National Competition in Reno, NV. The team has 6 competing members, and 1-2 alternate members which are all selected during the competitive try-out process. My responsibilities as a faculty coach is recruiting the team members, facilitating student learning of building information modeling (BIM) process and software, developing the plan and schedule for the competition preparation; working with the team captain on organizing the competition mock-ups, and reaching out to the industry representatives to help us with the competition preparation and mock-up sessions. The team prepares for the competition from October to early February and completes the competition problem deliverables during two days in Reno. Since 2016, the team placed first, second, third, and fourth out of 12-13 teams.

- **Faculty Advisor of the CM Women in Construction (WIC) Student Club**

I have been advising the CM Women in Construction (WIC) student club since 2017. The Construction Management program typically has about 10-12% female enrollment, that is, 10-12 female students out of 100 students that we accept every semester. WIC has been one of the largest clubs in the program based on membership and one of the most active clubs in terms of hosted events. In addition to female students, WIC normally has male members too. Therefore, the WIC student club provides a networking and mentoring opportunities for both the female and male students in our program. The club has been very active in not only offering female-targeted events but also organizing events that are open to all the students in the program. WIC organized coffee talks with female professionals from the construction companies such as *ISEC, McCarthy, JE Dunn, Holder, Hensel Phelps, BNBuilders, GE Johnson, Roche, and GH Phipps*. WIC also co-organized guest lectures by, for example, *Maja Rosenquist*, Senior Vice President from Mortenson Construction (co-organized with CMAA student club), *Elrond Burrell*, architect from New Zealand (co-organized with the USGBC Student Club), *Kia Weatherspoon*, President of the company Determined by Design in Washington, DC (co-organized with American Society of Interior Design), panel of women professionals from *Haseldan* construction company, and panel of women that belong to *Commercial Real Estate Women Network (CREW)*. The club provided mentorship to the *Harmony Road Boys and Girls* club with building a gingerbread house out of plywood, and participated in Denver's *Extreme Community Makeover* event. The club organized several construction site visits and the CM Career Fair preparation workshops. WIC also hosted the *Women and Workwear, Presentation and Showcase*, facilitated by *Amy Powell from Well Works and Alicia Ready from Elder Construction*. WIC has been involved in the Department efforts to enhance diversity, equity and inclusion climate in the program. These activities and events have significant impact on the female students in the program as they are able to meet women professionals that succeeded in the construction industry and that can serve as their role models.

- **Mentor of Nicole Dufalla, CM Instructor, Spring and Fall 2020**
- **Mentor of Dr. Ziyu Jin, CM Assistant Professor, Since 2023/2024 academic year**

OTHER ACTIVITIES/ACCOMPLISHMENTS – TEACHING/ADVISING

At Colorado State University

- Invited Virtual Lecture on Sustainable Construction practices and Waste Management in Construction in the Graduate Program in Civil Engineering at University of Pernambuco, Brazil – February 16, 2023
- I was invited by Dr. Sue Doe, Chair of the CSU Faculty Council to record a video about First Day of Class. I was part of the group of 11 CSU faculty whose videos were posted on the FC website in August 2020.
- Co-taught Travel Abroad Program in Costa Rica (CON 450 Sustainable Buildings), January 2016, January 2017

At the University of Florida

- Study Abroad Germany Exchange Program for building construction students with the Hochschule

Ostwestfalen-Lippe University in Detmold, Germany, May 2008

- I taught six BIM workshops for the participants from construction industry. I taught Autodesk software Revit Architecture™, Revit Structures™ and Revit MEP™. The workshops were held on: September 21-22, 2011; April 22-23, 2010; July 27-28, 2009; March 10-11, 2009; July 22-23, 2008; December 18-19, 2008.

CV SECTION 4: Evidence of Outreach/Service/Engagement

COMMITTEES

University Committees

- CHHS representative to the Executive Committee of the Faculty Council, July 1st, 2024 – present
- CM representative to the Faculty Council, July 1st, 2024 – present
- Member of the CSU School of Design Task Force, since Fall 2023
- CHHS representative on the CSU Faculty Council Committee on Faculty Governance (CoFG), August 2020 – June 2023
- CM Representative/Member of the CSU Historic Building Review Board (HBRB), May 2021 - present
- CHHS representative on the CSU Faculty Council Committee on Responsibilities and Standing of Academic Faculty (CoRSAF) – August 2017 – May 2020.
- Member of the CSU Nancy Richardson Design Center Curriculum Committee, 2016 – 2017

College Committees

CHHS at CSU

- Marshal at the CHHS Spring 2016, Spring 2017, Spring 2018 and Spring 2019 Commencements

College of Design, Construction and Planning at the University of Florida

- Witters Competition Jury, 2007, 2008, 2011
- Commencement Marshal, Spring, 2005 - 2010
- College Faculty Council, 2005 – 2009
- International Service Committee, Fall 2007
- College Sustainability Committee, 2005-2006
- International Education Faculty of Year Award College Committee, 2005
- Witters Competition Committee, 2004-2008

Department Committees

Department of Construction Management at Colorado State University

- Member of the Assessment Committee, Spring 2024
- Representative of tenured/tenure track faculty on Executive Committee, August 2022 - present
- Chair of the Assessment Committee, August 2019 – May 2023
- Member of the Ad Hoc Committee for Selecting a CM Heavy Civil Chair - Spring 2022
- Member of the search committee for the Assistant Professor Position (2020-2021, 2021-2022)
- Member of the Tenure and Promotion Committee, August 2020 - May 2022, August 2024-present
- Member of the Graduate Committee, 2015 - 2023
- Faculty Coach of the VDC competition team, 2015-present
- Faculty Advisor of Women in Construction (WIC) Student Club, May 2017 – present
- Interim Graduate Program Coordinator – Spring 2020, Summer 2020

- Interim Chair of the Graduate Committee – Spring 2020
- Member of the search committee for the Construction Management Department Head (2019-2020)
- Member of the Curriculum Committee, 2015 – 2019 (also leading preparation for the CM Program Accreditation)
- Member of the Ad Hoc Committee for Revising the Department Code to integrate changes related to non-tenure track faculty - Spring 2019

Rinker School of Building Construction at the University of Florida

- Faculty Advisory Committee, 2012 – 2015
- Computing Committee, 2012 - 2015
- Associate Director of Center for Advanced Construction Information Modeling (CACIM), Rinker School of Building Construction, 2010 – 2015
- Faculty Coach of the residential competition team – 2014/2015 academic year
- Member of the search committee for the Director of the Rinker School of Building Construction, 2012
- Committee for the Nancy Perry Teaching Excellence Award, 2009-2015
- Undergraduate Committee, 2008 – 2015
- Faculty Advisory Committee, 2009 - 2010
- Graduate Committee, 2004 - 2008
- Member of the Faculty Search Committee – Academic years 2006/2007, 2009/2010
- National Association of Women in Construction (NAWIC) – shadowing Dr. Raymond Issa, Faculty Advisor of the student chapter of NAWIC – 2004/2005 academic year

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Memberships in professional societies

- Member of the Associated Schools of Construction (ASC), 2004 – present.
- Member of American Society of Civil Engineers (ASCE), 2007 – present.
- Member of the Associated Schools of Construction (ASC) Research Committee, April 2017 – present.
- Member of the Academic Interoperability Coalition (AiC), an organization that focuses on BIM and that consists of both academic scholars and industry practitioners, 2016 – present.
- Member of Sigma Lambda Chi, International Construction Honor Society, 2001 – present.
- Member of ASCE Technical Council on Computing and Information Technology (TCCIT) Education Committee, 2011 – 2020.
- Member of ASCE Technical Council on Computing and Information Technology (TCCIT) Visualization, Information Modeling, and Simulation (VIMS) Committee, 2011 – 2017.
- Member of Association for the Advancement of Sustainability in Higher Education (AASHE), 2008 – 2009.
- Member of Society of Building Science Educators (SBSE), 2003 - 2004.
- Member of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), 2000 – 2004.
- Member of the Board of Directors of Neighborhood and Housing Development Corporation (NHDC), 2005 - 2010.

Serving on the conference committees

- Member of the 2014 International Conference on Computing in Civil and Building Engineering (ICCCBE) and 2014 CIB W078 conference Organizing and Scientific Committees.
- Member of the 2012 Winter Simulation Conference (WSC 2012) International Program Committee.
- Member of the 2012 American Society of Civil Engineers (ASCE) International Workshop on Computing in Civil Engineering Organizing Committee.
- Member of the 2011 American Society of Civil Engineers (ASCE) International Workshop on Computing in Civil Engineering Technical Committee.
- Member of the CIB W99 2008 International Conference “Evolution of and Directions in Construction Safety and Health” Scientific and Technical Committees.

- Member of the 6th International Conference on Construction Applications of Virtual reality (CONVR 2006) Scientific Committee.

Moderator at professional conferences/meetings

- 2022 Associated Schools of Construction's 58th Annual International Conference, Atlanta, Georgia, April 20-23, 2022.
- 2018 Associated Schools of Construction's 54th Annual International Conference, Minneapolis, Minnesota, April 18-21, 2018.
- 2017 Associated Schools of Construction's 53rd Annual International Conference, Seattle, Washington, April 5-8, 2017.
- 2012 ASCE International Workshop on Computing in Civil Engineering, Clearwater Beach, FL, June 17-20, 2012.
- 2011 Winter Simulation Conference (WSC 2011), Phoenix, AZ, December 11-14, 2011.
- 2011 ASCE International Workshop on Computing in Civil Engineering, Miami, FL, June 19-22, 2011.
- 38th Annual Meeting of the Urban Affairs Association, Baltimore, Maryland, April 23–26, 2008.
- CIB W99 2008 International Conference “Evolution of and Directions in Construction Safety and Health”, Gainesville, Florida, March 9-11, 2008.
- 6th International Conference on Construction Applications of Virtual Reality (CONVR 2006), Orlando, Florida, August 3-4, 2006.

Review/editorial boards

- Guest Editor with the three other Guest Editors (Dr. Wes Collins from Auburn University, Dr. Alma Salman from Auburn University, and Dr. Rachel Mosier from Oklahoma State University) for the *International Journal of Construction Education and Research's Special Issue on the research methodologies used in construction education-focused studies* (April 2024 - September 2024).
- Editorial board member of *International Journal of Building Pathology and Adaptation* (February 2024-present).
- Collection Editor for a *Topical Collection of the Buildings Journal* on “*Virtual Reality and Mixed Reality in Architecture, Engineering, Construction, and Operation and Maintenance (AECOM) Building Sector*” (2019-2022 Guest Editor of a Special Issue, 2022-present, Collection Editor of a Topical Collection). 21 published papers.
- Guest Editor for a *Special Issue of the Buildings Journal* on “*Application of Computer Technology in Buildings*” (2019 – 2024). 20 published papers.
- Associate Editor for *Practice Periodical on Structural Design and Construction* (ASCE Journal) (August 2019 – present).
- Editorial Board member for the *International Journal of Construction Education and Research* (April 2006 – 2010; 2015; 2021 - present).
- Academic Editor of the *Advances in Civil Engineering Journal* (June 18, 2020 – January 8, 2024).
- Editorial advisory board member for the Information Technology in Construction ITCON journal (2020)
- Assistant to the Editorial Office of *International Journal of Construction Education and Research* (September 2007 – January 2008).

Grant review panels

- Reviewer of US Department of Energy (DOE) (Building Energy Efficiency Frontiers and Incubator Technologies (BENEFIT) - 2014, DE-FOA-0001027. Seven proposals reviewed in May 2014; participated in the panel review at DOE in Washington DC on June 4th, 2014.

Grant Refereeing

- Reviewer for US Department of Energy (DOE) (Building Energy Efficiency Frontiers and Incubator Technologies (BENEFIT), DE-FOA-0001027, 2014. Seven proposals reviewed in May 2014.

- Reviewer for NSF (Environmental Sustainability Program, Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET), Directorate for Engineering), 2014. Four proposals reviewed in that cycle.

Manuscript Refereeing

- International Journal of Construction Education and Research
- Automation in Construction Journal
- Facilities Journal
- Engineering, Construction and Architectural Management Journal
- Building and Environment Journal
- Journal of Computing in Civil Engineering
- Buildings Journal
- Construction Management and Economics Journal
- Safety Science Journal
- Energy and Buildings Journal
- Built Environment Project and Asset Management Journal
- Energies Journal
- Sustainability Journal
- Practice Periodical on Structural Design and Construction Journal
- Journal of Information Technology in Construction (ITCon)
- Journal of Engineering, Design and Technology

Reviewer for a Conference

- 2024 Associated Schools of Construction (ASC) 60th Annual International Conference (1 paper reviewed).
- 2022 Associated Schools of Construction (ASC) 58th Annual International Conference (1 paper reviewed).
- 2016 Construction Research Congress (CRC); reviewer of the regular papers (2 papers reviewed) as well as the best paper award (8 papers reviewed).
- 2016 Winter Simulation Conference (WSC); Project Management and Construction track (2 papers reviewed).
- 2015 ASCE International Workshop on Computing in Civil Engineering (7 papers reviewed).
- 2015 Associated Schools of Construction (ASC) 51st Annual International Conference (2 papers reviewed).
- 2014 Winter Simulation Conference (WSC) (6 papers reviewed).
- 2014 Associated Schools of Construction (ASC) 50th Annual International Conference (2 papers reviewed).
- 2014 ASCE International Conference on Computing in Civil and Building Engineering (ICCCBE) (3 papers reviewed).
- 2014 Winter Simulation Conference (WSC) (6 papers reviewed).
- 2013 Associated Schools of Construction (ASC) 49th Annual International Conference (2 papers reviewed).
- 2013 Architectural Engineering Institute (AEI) Conference (2 papers reviewed).
- 2012 Winter Simulation Conference (WSC) Conference (5 papers reviewed).
- 2012 ASCE International Workshop on Computing in Civil Engineering (6 papers reviewed).
- 2012 Associated Schools of Construction (ASC) 48th Annual International Conference (3 papers reviewed).
- 2011 Winter Simulation Conference (WSC) (4 papers reviewed).
- 2011 ASCE International Workshop on Computing in Civil Engineering (4 papers reviewed).
- 2010 Associated Schools of Construction (ASC) 46th Annual International Conference (3 papers reviewed).
- 9th International Conference on Construction Applications of Virtual Reality (CONVR 2009) (4 papers reviewed).
- 2009 Associated Schools of Construction (ASC) 45th Annual International Conference (3 papers reviewed).
- 2009 ASCE International Workshop on Computing in Civil Engineering Reviewer Committee (2 papers reviewed).
- 2008 Associated Schools of Construction (ASC) 44th Annual International Conference (3 papers reviewed).
- CIB W99 2008 International Conference “Evolution of and Directions in Construction Safety and Health” (2

papers reviewed).

- 2007 Associated Schools of Construction (ASC) 43rd Annual International Conference (4 papers reviewed).
- 6th International Conference on Construction Applications of Virtual reality (CONVR 2006) Conference (3 papers reviewed).
- 2006 Associated Schools of Construction (ASC) 42nd Annual International Conference (2 papers reviewed).
- 2005 Associated Schools of Construction (ASC) 41st Annual International Conference (2 papers reviewed).

SERVICE WITH EXTERNAL PARTNERS AND COMMUNITIES

- Member of the Building Performance Standards (BPS) Technical Committee, the City of Fort Collins. BPS requires buildings to meet carbon or energy performance targets by specific deadlines. The committee is focusing on local buildings from 10,000 to 50,000 sq ft because there are state regulations for buildings larger than 50,000 sq ft. , July 2023 – May 2024.
- Member of Green Advantage International (GAI) Green Builder Certification Board as well as a Subject Matter Expert with the focus on the Pre-Construction Risk Assessment – Infection Control Risk Assessment (PCRA/ICRA) Certificate Program, June 9, 2020 - present. GAI Certificate Programs are ANSI certified.

OTHER ACTIVITIES/ACCOMPLISHMENTS – TEACHING, RESEARCH, SERVICE/OUTREACH

At Colorado State University

- Served as an Assistant Mentor in American Society of Civil Engineers (ASCE) Excellence in Civil Engineering Education (ExCEEEd) Teaching Workshop; July 28-August 2, 2024, Fort Collins, CO.
- Served as an Assistant Mentor in American Society of Civil Engineers (ASCE) Excellence in Civil Engineering Education (ExCEEEd) Teaching Workshop; July 30-August 4, 2023, Fort Collins, CO.
- External Reviewer for the Tenure and Promotion, and Promotion of seven faculty members at other institutions, Summer 2020, Summer 2021, Summer 2023, Summer 2024
- Provided Peer Review of teaching of Dr. Mehmet Ozbek (CON 101 Introduction of Construction Management class) in Fall 2023
- Completed annual CSU cybersecurity training 2023, October 30, 2023
- Affiliated Faculty in the Department of Systems Engineering, July 2022 – present.
- Invited by Dr. Matt Hickey, CHHS Associate Dean for Research to participate as a CM representative in the Season 3 of CHHS Research Podcast “Health and Human Science Matters”.
- Completed “InCircle” CSU Women Faculty workshop in Spring 2022 which included five main 90-minute sessions and three 60-minutes small group meetings in between main sessions. The workshop purpose was to promote a sense of belonging by building connections and community across campus, have meaningful discussions about issues faced by women faculty at CSU, develop and strengthen practices that promote healthy work-life integration, engage within and across social identities of women faculty on campus to optimize job performance.
- Attended 2022 American Council of Construction Education (ACCE) Midyear Conference; held in Dallas, Texas, from February 22-26, 2022. Completed Master’s Program Visiting Team Member Training.
- Member of the ACCE Visiting Team at Minnesota State University at Moorhead; October 9-12, 2021
- Attended 2021 American Council of Construction Education (ACCE) Annual Meeting; held online from July 16-23, 2021. Completed Visiting Team Chair Training.
- Attended ASC Conference; April 5-8, 2021; held online
- Attended 2021 American Council of Construction Education (ACCE) Midyear Conference; held online from February 15-19, 2021. Completed Advanced Visiting Team Member Training.
- Attended “Creating Connection and Charting the Course: CHHS Faculty and Staff Forum on DEI” on February 25, 2021. The goal was to create a space for dialog, ideas and concerns to address racial equity, social justice and cultural responsiveness. The CHHS community shared experiences, perspectives and recommendations on how CHHS can make substantial change with our Diversity, Equity and Inclusion efforts.
- Provided Peer Review of teaching of Dr. Erin Arneson (Contracts class) and Mr. Mike O’Riley (Structures

class) in Spring 2021

- Attended 2020 American Council of Construction Education (ACCE) Annual Meeting; held online from July 20-24, 2020. Completed Advanced Visiting Team Member Training and ACCE Guidance Committee Member Training.
- Attended Peer 7 meetings related to online teaching of construction drawing/BIM-related courses. One-hour meetings were held weekly from April 23 – June 18, 2020.
- On January 29, 2020 submitted proposal to Higher Education Resource Services (HERS) Leadership Institute that focused on diversity and inclusion for females in academia. HERS supports the advancement of women who aspire to become leaders representing greater equity, inclusivity, and excellence in higher education. It was very competitive and the Institute was meant for Dean and President-level position. I was not selected.
- Developed a CM-DM Shared Tenure-track Faculty Line Hiring Proposal with Jon Elliott and Leah Scorele from IAD – submitted on March 13, 2020
- Member-in-training of the American Council of Construction Education (ACCE) Visiting Accreditation Team for the Accreditation of the Construction Systems Management Program at The Ohio State University; Fall 2019, on-site visit October 20-22, 2019, Columbus, Ohio.
- Attended 2019 American Council of Construction Education (ACCE) Annual Meeting in Philadelphia, PA, July 24-26, 2019. Completed Initial Visiting Team Training for a member of an ACCE accreditation team.
- Completed CSU Search Chair training at CSU on June 25th 2019
- Affiliated Faculty in the Nancy Richardson Design Center since August 16, 2019
- Affiliated Faculty in CSU Energy Institute, also a member of Intuitive Building Research Group, since June 2017
- Affiliated Faculty in School of Global and Environmental Sustainability (SoGES), since May 2017
- Affiliated Faculty in the Department of Civil and Environmental Engineering, 2017-2021

At the University of Florida

- A Center Affiliate of Powel Center for Construction and Environment, Rinker School of Building Construction (2005 - 2015).
- Attended University of Florida Spring 2008 Faculty Development Seminar Series: *Just Want to be Whelmed: Maintaining a Vibrant and Productive Work Life*. Workshop presented by Dr. Meggin McIntosh, Professor Emerita, University of Nevada, February 1, 2008
- Attended University of Florida Faculty Development Series: *Grant Writers' Seminar*. Presented by Dr. Stephen Russell and Dr. David Morrison of Grant Writers' Seminars and Workshops, LLC., March 7, 2007. Workshop focused on writing the grant proposals for NSF and NIH.
- Member of the Board of Directors of Neighborhood and Housing Development Corporation (NHDC) in Gainesville, FL, October 2005 - March 2010.
- Attended *University of Florida Round Table on Diversity Conference*, October 26, 2004.