

SEDA MCKILLIGAN, *PhD.*

CURRICULUM VITAE – APRIL 2024

Iowa State University, College of Design
715 Bissell Road, Ames, IA, 50011 USA
seda@iastate.edu, www.design.iastate.edu

EMPLOYMENT

Senior Associate Dean for Academic Personnel Success and Strategic Initiatives, July 2023-present

Professor, Industrial Design, 2019-present

Associate Editor, International Journal of Design Science, July 2018-present

Member, Board of Directors, NASAD, October 2023-present
College of Design, Iowa State University

Associate Dean for Academic Programs, August 2018-July 2023

Director, Core Design Program

College of Design, Iowa State University

Interim Department Chair of Industrial Design, June 2019-June 2021

College of Design, Iowa State University

Professor, 2019-present

Associate Professor, 2015-2019

Assistant Professor, 2010-2015

Department of Industrial Design

College of Design, Iowa State University

Co-Director, NSF I/UCRC Center for e-Design, July 2017-July 2018

Iowa State University

Visiting Professor, October 2016-May 2017 (sabbatical year)

Faculty of Industrial Design Engineering

Department of Product Innovation Management, Delft University of Technology (TU Delft), the Netherlands

Post-Doctoral Research Fellow, summer 2010

Design Science Graduate Program

College of Engineering, University of Michigan

Graduate Student Research Assistant, 2007-2010

Design Science Graduate Program

College of Engineering, University of Michigan

Visiting Scholar, summer 2008

Creative Design Institute

College of Engineering, Sungkyunkwan University, South Korea

EDUCATION

Ph.D. in Design Science, 2007-2010

Design Science Ph.D. Program, College of Engineering, University of Michigan

Dissertation Title: Design Heuristics

Master of Fine Arts in Industrial Design, 2002-2004

Stamps School of Art and Design, University of Michigan

Bachelor of Industrial Design, 1997-2001

Department of Industrial Design, Faculty of Architecture, Middle East Technical University, Turkey

Google Scholar Profile (11.8.2023): https://scholar.google.com/citations?hl=en&authuser=1&user=Y_zEaF0AAAAJ

	All	Since 2019
Citations	2975	1801
h-index	28	20
i10-index	62	47

ORCID Profile: <https://orcid.org/0000-0001-7446-3380>

ResearchGate Profile: <https://www.researchgate.net/profile/Seda-Mckilligan/publications>

RESEARCH GRANTS

1. Iowa State University: College of Human Sciences Innovative Teaching Initiatives grant: *Design Thinking and Entrepreneurship in Learning Technologies*
Investigators: Evrim Baran [SOE], Denise Crawford [SOE], Seda Mckilligan [COD], Judi Eyles [BUS]
Period: 2019-2021
Amount: \$20,000
2. National Science Foundation: *IUSE/PFE: RED: Reinventing the Instructional and Departmental Enterprise (RIDE) to Advance the Professional Formation of Electrical and Computer Engineers*
Investigators: David Jiles (PI), Sarah Rajala, Diane Rover, Mack Shelley, Joseph Zambreno, Seda Yilmaz, Brian Burt, Doug Jacobson, Mani Mina, Lisa Larson, Sarah Rodriguez
Period: 2016-2021
Amount: \$1,999,869
3. National Science Foundation DUE – 1504028: *IUSE: Collaborative Research: Tackling the 'Right' Problem: Investigating Cognitive Strategies Used in Understanding Engineering Problems*
Investigators: Seda Yilmaz (PI)
Period: 015-2019
Amount: \$166,263 (\$250,000 total across two institutions)
4. National Science Foundation Center for e-Design: *Supporting Innovative Ideation Behavior in Problem Exploration*
Investigators: Seda Yilmaz (PI)
Period: 2015-2017
Amount: \$70,000
5. National Science Foundation DUE – 1323251: *TUES TYPE II: Collaborative Research: Evidence-based Pedagogy in Engineering Education: Design Heuristics for Concept Generation*
Investigators: Seda Yilmaz (PI)
Period: 2013-2017
Amount: \$403,924 (\$600,000 total across two institutions)
6. National Science Foundation EEC – 1265018: *REE: Collaborative Research: Investigating Impact on the Ideation Flexibility of Engineers*
Investigators: Seda Yilmaz (PI)
Period: 2013-2018
Amount: \$235,437 (\$703,000 total across three institutions)
7. National Science Foundation IIP – 1238335: *I/UCRC: Center for e-Design*
Investigators: Janis Terpeny (PI), Seda Yilmaz
Period: 2012-2019
Amount: \$849,242
8. National Science Foundation DUE – 1140256: *TUES: Integrating Design Heuristics into Engineering Education as a Pedagogy for Ideation*
Investigators: Shanna R. Daly (PI), Colleen M. Seifert, Seda Yilmaz, Richard Gonzalez
Period: 2012-2014
Amount: \$199,778

9. P&G Higher Education Grant
Designing a Better World: Design Thinking to Tackle Complex Issues
Investigators: Seda Yilmaz (PI), David Ringholz
Period: 2012-2013
Amount: \$6,800
10. Iowa State University: Vice President for Extension and Outreach Strategic Initiative: *Pre-Collegiate Collaborative Innovation Workshops for Children with Cognitive Disabilities and their Neurologically Typical Peers for K-12 Audiences*
Investigators: Debra Satterfield (PI), Seda Yilmaz, Sung Kang
Period: 2012-2013
Amount: \$87,451
11. Iowa State University: Provost's Strategic Initiative: *Interdisciplinary Design Education, Research and Engagement*
Investigators: David Ringholz (PI), Judy Vance, Janis Terpenney, Seda Yilmaz
Period: 2012-2015
Amount: \$1,521,500

BOOK CHAPTERS

1. Daly, S.R., **McKilligan, S.**, Leahy*, K., & Seifert, C.M. (2019). Teaching design innovation skills: Design Heuristics pedagogy for idea initiation, idea development, subcomponent design and group ideation. In Schaefer, D., Coates, G., & Eckert, C (eds). *Design Education Today: Technical contexts, programs, and best practices*.
2. Baker, I.* , Sevier*, D., **McKilligan, S.**, Jablokow, K.W., Daly, S.R., Silk, E.M. (2019). Investigating ideation flexibility through incremental to radical heuristics. In Muratowski, G., & Vogel, C. (eds). *Philosophical Frameworks and Design Processes – Re: Research*. ISBN 9781789381382.
3. Daly, S.R., **McKilligan, S.** Ostrowski, A., & Murphy, L. (2017). Tracing problem evolution: Factors that impact design problem definition. In B.T. Christensen, L.J. Ball, & K. Halskow (eds). *Analyzing Design Thinking: Studies of Cross-Cultural Co-Creation*, pg. 555-572, FL, US: CRC Press.
4. Daly, S.R., & **Yilmaz, S.** (2016). Directing convergent and divergent activity through design feedback. In R.S. Adams & J.A. Siddiqui (eds.), *Analyzing Design Review Conversations* (pp. 413-430). West Lafayette, IN: Purdue University Press.
5. Seifert, C.M., Gonzalez, R., **Yilmaz, S.**, & Daly, S.R. (2015). Boosting creativity in idea generation using Design Heuristics. In Product Development and Management Association (ed.), *Design and Design Thinking: Essentials in the PDMA's New Product Development Series* (pp. 71-86). Hoboken, NJ: John Wiley and Sons.
6. Seifert, C.M., Gonzalez, R., **Yilmaz, S.**, & Daly, S.R. (2015). Design Heuristics: A tool for innovation. In R. Batra, C.M. Seifert, & D. Brei, (eds.). *The Psychology of Design: Creating Consumer Appeal* (pp. 327-343). New York: Routledge.
7. Daly, S.R., **Yilmaz, S.**, Christian, J.L., Seifert, C.M., & Gonzalez, R. (2012). 77 Design Heuristics. In H.S. Fogler and S. LeBlanc (eds.), *Strategies for Creative Problem-Solving 3rd Ed*. New York, NY: Prentice Hall.

JOURNAL ARTICLES

2022

1. Eisenbart, B., Bouwman, S., Voorendt, J., **McKilligan, S.**, Kuys, B., & Ranscombe, C. (2022). Implementing design thinking to drive innovation in technical design. *International Journal of Design Creativity and Innovation*, DOI. 10.1080/21650349.2022.2048698.
(Distinguished Paper Award)

2021

2. Silk, E.M., Rechkemmer, A.E., Daly, S.R., Jablokow, K.W., & **McKilligan, S.** (2021). Problem framing and cognitive style: Impacts on design ideation perceptions. *Design Studies*, 74, 101015.

2020

3. Hay, L., Cash, P., & **McKilligan, S.** (2020). The future of design cognition analysis. *Design Science*, vol. 6, e20. <https://doi.org/10.1017/dsj.2020.20>

4. Leahy*, K.S., Daly, S.R., **McKilligan, S.**, & Seifert, C.M. (2020). Design fixation from initial examples: Provided versus self-generated ideas. *Journal of Mechanical Design*, October 2020; 142(10): 101402. <https://doi.org/10.1115/1.4046446>.
- 2019
5. Murray, J.A., Daly, S.R., **McKilligan, S.**, & Seifert, C.M. (2019). Design by taking perspectives: How engineers explore problems. *Journal of Engineering Education*, 108, 248-275. DOI. 10.1002/jee.20263.
 6. Henderson, D., Jablokow, K., Daly, S., **McKilligan, S.**, Silk, E., & Bracken, J. (2019). Comparing the effects of design interventions on the quality of design concepts as a reflection of ideation flexibility. *Journal of Mechanical Design*, 141, 031103-1-11. DOI. 10.1115/1.4042048.
 7. Silk, E.M., Daly, S.R., Jablokow, K.W., & **McKilligan, S.** (2019). Incremental to radical ideas: Paradigm-relatedness metrics for investigating ideation creativity and diversity. *International Journal of Design Creativity and Innovation*, 7(1-2), 30-49. DOI. 10.1080/21650349.2018.1463177.
- 2018
8. Leahy*, K.S., Daly, S.R., Murray, J.A., **McKilligan, S.**, & Seifert, C.M. (2018). Transforming early concepts with Design Heuristics. *International Journal of Technology and Design Education*. DOI. 10.1007/s10798-018-9473-0.
 9. Studer*, J.A., Daly, S.R., **McKilligan, S.** & Seifert, C.M. (2018). Evidence of problem evolution in creative design. *AIEDAM*, 32(4), 415-430.
 10. Daly, S.R., **McKilligan, S.**, Studer*, J.A., Murray, J., & Seifert, C.M. (2018). Innovative solutions through innovated problems. *International Journal of Engineering Education*, 34(2B), 695-707.
- 2017
11. Gray*, C.M., **McKilligan, S.**, Daly, S.R., & Seifert, C.M. (2017). Using creative exhaustion to foster idea generation. *International Journal of Technology and Design Education*. DOI. 10.1007/s10798-017-9435-y
 12. **McKilligan S.**, Jablokow, K.W., Daly, S.R., & Silk, E.M. (2017). Usability tests of ideation flexibility tools with engineering design practitioners. *CoDesign Journal*, 1-21.
- 2016
13. **Yilmaz, S.**, Seifert, C.M., Daly, S.R., & Gonzalez, R. (2016). Design Heuristics in innovative products. ASME. *Journal of Mechanical Design*, 138(7): 071102-071102-12
(Invited as a featured article).
 14. **Yilmaz, S.**, Seifert, C.M., Daly, S.R., & Gonzalez, R. (2016). Evidence-based Design Heuristics for idea generation. *Design Studies*, 46, 95-124.
 15. Daly, S.R., Seifert, C.M., **Yilmaz, S.**, & Gonzalez, R. (2016). Comparing Ideation Techniques for Beginning Designers. *Journal of Mechanical Design*, 138(10), 101108.
 16. Gray*, C.M., Seifert, C.M., **Yilmaz, S.**, Daly, S.R., & Gonzalez, R. (2016). What is the context of “Design Thinking”? Design Heuristics as conceptual repertoire. *International Journal of Engineering Education*, 32(3B), 1349-1355.
 17. **Yilmaz, S.**, & Daly, S.R. (2016). Feedback in concept development: Comparing design disciplines. *Design Studies*, 45(Part A), 137-158.
- 2015
18. **Yilmaz, S.**, Daly, S., Seifert, C.M., & Gonzalez, R. (2015). How do designers generate new ideas? Design Heuristics across two disciplines. *Design Science*, 1, 1-29.
 19. Kramer, J. Daly, S.R., **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2015). Investigating the impacts of Design Heuristics on idea initiation and development. *Advances in Engineering Education*.
- 2013
20. **Yilmaz, S.**, Daly, S.R., Christian, J.L., Seifert, C.M., & Gonzalez, R. (2013). Can experienced designers learn from new tools? A case study of idea generation in a professional engineering team. *International Journal of Design Creativity and Innovation*, 2(2), 82-96.
- 2012
21. Daly, S.R., **Yilmaz, S.**, Christian, J.L., Seifert, C.M., & Gonzalez, R. (2012). Design Heuristics in engineering concept generation. *Journal of Engineering Education*, 101(4), 601-629.
(AERA Division I Outstanding Publication Award)
- 2011
22. **Yilmaz, S.**, & Seifert, C.M. (2011). Creativity through Design Heuristics: A case study of expert product design. *Design Studies*, 32(4), 384-415.
(Nominated for Best Paper Award)

23. Daly, S.R., Christian, J.L., **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2011). Assessing Design Heuristics for idea generation in an introductory engineering course. *International Journal of Engineering Education*, 28(2), 463-473.
- 2010
24. **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2010). Cognitive heuristics in design: Instructional strategies to increase creativity in idea generation. *Journal of Artificial Intelligence for Engineering Design, Analysis, and Manufacturing*, 24(3), 335-355.

REFEREED FULL CONFERENCE PAPERS

2019

1. Creeger*, S., & **McKilligan, S.** (2019). Innovative design problem exploration. International Association of Societies of Design Research Conference, September 2-5, Manchester, UK: IASDR.
2. Bouwman, S., Voorendt, J., Eisenbart, B., & **McKilligan, S.** (2019). Design Thinking: An approach with various perceptions. International Conference on Engineering Design, August 4-8, Delft, Netherlands: ICED.
3. Fila*, N., & **McKilligan, S.** (2019). An exploration of course design heuristics identified from design meetings, design artifacts, and educator interviews. Annual Conference of American Society of Engineering Education, June 15-19, Tampa, FL: ASEE.

2018

4. Henderson, D., Jablokow, J.W., Daly, S.R., **McKilligan, S.**, & Silk, E.M. (2018). Comparing the effects of design interventions on the quality of design concepts as a reflection of ideation flexibility. ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, August 26-29, Quebec City, Quebec, Canada: IDETC.
5. Park*, H.J. & **McKilligan, S.** (2018). A systematic literature review for human computer interaction and design thinking process integration. International Conference on Human-Computer Interaction, July 15-20, Las Vegas, NV: HCII. In Marcus A., Wang, W. (eds) Design, User Experience, and Usability: Theory and Practice. DUXU 2018. Lecture Notes in Computer Science (725-740), vol 10918. Springer, Cham. https://doi.org/10.1007/978-3-319-91797-9_50.
6. Fila*, N., Guerin*, K., & **McKilligan, S.** (2018). Design thinking in engineering course design. Annual Conference of American Society of Engineering Education, June 24-27, Salt Lake City, UT: ASEE.
7. Fila*, N., Abramsky*, S., & **McKilligan, S.** (2018). How engineering educators use heuristics when redesigning a sophomore-level embedded systems course. Annual Conference of American Society of Engineering Education, June 24-27, Salt Lake City, UT: ASEE.

2017

8. Leahy*, K.S., Daly, S.R., **McKilligan, S.**, & Seifert, C.M. (2017). Overcoming design fixation in idea generation. International Conference of Design Research Society, June 25-28, Limerick, Ireland: DRS.
9. Creeger*, S., **McKilligan, S.**, Daly, S.R., & Seifert, C.M. (2017). Strategies to redefine the problem exploration space for design innovation. International Conference on Engineering and Product Design Education, September 6-7, London, UK: EPDE.
10. **McKilligan, S.**, Fila*, N., Rover, D., & Mina, M. (2017). Insights on using Design Thinking as a process to changing pedagogical practices in engineering. *Frontiers in Education*, October 18-21, Indianapolis, IN: FIE.
11. **McKilligan, S.** Dhadphale, T., & Ringholz, D. (2017). Speed dating with Design Thinking: An empirical study of managers solving business problems with design, International Association of Societies of Design Research Conference, November 1-3, Cincinnati, OH: IASDR.
12. Studer*, J.A., Murray, J.K., Daly, S.R., **McKilligan, S.** & Seifert, C.M. (2017). Innovative solutions arise from diverse problem definitions. Clive L. Dym Design Workshop X, June 1-3, Claremont, CA: MUDD.
13. Sevier*, D.C., Baker*, I., **McKilligan, S.**, Jablokow, K.W., Daly, S.R., Silk, E.M., & Helm, K.C. (2017). Towards the development of a concept elaboration metric. ASME 2017 International Design Engineering Technical Conferences (IDETC); 13th International Conference on Design Education (DEC). Cleveland, OH: ASME.
14. Henderson, D.A., Helm, K.C., Jablokow, K.W., **McKilligan, S.**, Daly, S.R., & Silk, E.M. (2017). Comparison of variety metrics in engineering design. ASME 2017 International Design Engineering Technical Conferences (IDETC); 13th International Conference on Design Education (DEC). Cleveland, OH: ASME.

15. Helm, K.C., Henderson, D.A., Jablokow, K.W., Daly, S.R., **McKilligan, S.**, Silk, E.M., & Sevier*, D.C. (2017). The idea mapping board: A tool for assessing design concepts and visualizing a team's use of the design space. International Conference of Engineering Design. Vancouver, B.C., Canada: ICED.
 16. Rover, D., Zambreno, J., Mina, M., Jones, P.H., Jacobson, D.W., **McKilligan, S.**, & Khokhar, A. (2017). Riding the wave of change in electrical and computer engineering. Annual Conference of American Society of Engineering Education. Columbus, OH: ASEE.
 17. Rechkemmer, A., Silk, E.M., Daly, S.R., Jablokow, K.W., & **McKilligan, S.** (2017). Examining the effect of a paradigm-relatedness problem framing tool on idea generation. Annual Conference of American Society of Engineering Education. Columbus, OH: ASEE.
 18. Studer*, J.A., Murray, J., Daly, S.R., **McKilligan, S.** & Seifert, C.M. (2017). Case studies of problem exploration processes in engineering design. Annual Conference of American Society of Engineering Education. Columbus, OH: ASEE.
 19. Murphy, L., Daly, S.R., **McKilligan, S.** & Seifert, C.M. (2017). Supporting novice engineers in idea generation using Design Heuristics. Annual Conference of American Society of Engineering Education. Columbus, OH: ASEE.
- 2016
20. Daly, S.R., **McKilligan, S.** Ostrowski, A., & Murphy, L. (2016). Tracing problem evolution and factors that impact problem shifts. 11th Design Thinking Research Symposium (DTRS), Copenhagen, Denmark: DTRS.
 21. Studer*, J.A., **Yilmaz, S.**, Daly, S.R., & Seifert, C.M. (2016). Cognitive heuristics in defining engineering design problems. ASME 2016 International Design Engineering Technical Conferences (IDETC); 13th International Conference on Design Education (DEC). Charlotte, NC: ASME.
 22. Silk, E.M., Daly, S.R., Jablokow, K.W., & **Yilmaz, S.** (2016). Using paradigm-relatedness to measure design ideation shifts. ASEE Annual Conference, Design in Engineering Education Division. New Orleans, LA: ASEE.
 23. Helm, K., Jablokow, K.W., **Yilmaz, S.**, Daly, S.R., & Silk, E.M. (2016). Evaluating the impacts of different interventions on quality in concept generation. ASEE Annual Conference, Design in Engineering Education Division. New Orleans, LA: ASEE.
 24. Leahy*, K.S., Daly, S.R., **Yilmaz, S.**, Seifert C.M., & Gonzalez, R. (2016). Integrating Design Heuristics into your classroom. ASEE Annual Conference, Design in Engineering Education Division. New Orleans, LA: ASEE.
- 2015
25. Gray*, C.M., **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2015, August). Creativity 'misrules': First year engineering students' production and perception of creativity in design ideas. In ASME 2015 International Design Engineering Technical Conferences (IDETC); 12th International Conference on Design Education (DEC). Boston, MA: ASME.
 26. Jablokow, K.W., Teerlink, W., **Yilmaz, S.**, Daly, S.R., Silk, E.M., & Wehr*, C. (2015, August). Ideation variety in mechanical design: Examining the effects of cognitive style and design heuristics. In ASME 2015 International Design Engineering Technical Conferences (IDETC); 12th International Conference on Design Education (DEC). Boston, MA: ASME.
 27. Gray*, C.M., **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2015, July). Supporting idea generation through functional decomposition: An alternative framing for Design Heuristics. In Proceedings of International Conference on Engineering Design. Milan, IT: ICED.
 28. Gray*, C.M., **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2015, June). What problem are we solving? Encouraging idea generation and effective team communication. In LearnXDesign: The 3rd International Conference for Design Education Researchers and PreK-16 Design Educators. Chicago, IL: School of the Art Institute of Chicago: LearnXDesign.
 29. Gray*, C.M., **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2015, June). Idea generation through empathy: Reimagining the 'cognitive walkthrough'. In Proceedings of the ASEE Annual Conference, Design in Engineering Education Division. Seattle, WA: ASEE.
 30. Jablokow, K.W., Teerlink, W., **Yilmaz, S.**, Daly, S.R., Silk, E.M., Wehr*, C. (2015, June). The impact of teaming and cognitive style on student perceptions of design ideation outcomes. In Proceedings of the ASEE Annual Conference, Design in Engineering Education Division. Seattle, WA: ASEE.
(Selected for DISTINGUISHED LECTURE: Best PIC Paper Presentation)
(ASEE DEED Division Best Paper Award)
 31. Wright, S., Silk, E.M., Daly, S.R., Jablokow, K.W., **Yilmaz, S.**, Teerlink, W., & Wehr*, C. (2015, June). Exploring the effects of problem framing on solution shifts: A case analysis. In Proceedings of the ASEE Annual Conference. Seattle, WA: ASEE.
 32. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., Gonzalez, R., & Gray*, C.M. (2015, June). Expanding evidence-based pedagogy with Design Heuristics. In Proceedings of the ASEE Annual Conference, NSF Grantees Poster Session. Seattle, WA: ASEE.

33. **Yilmaz, S.**, Rosenberg*, M., Daly, S.R., Jablokow, K.W., Silk, E.M. & Teerlink, W. (2015, June). Impact of problem contexts on the diversity of design solutions: An exploratory case study. In Proceedings of the ASEE Annual Conference, NSF Grantees Poster Session. Seattle, WA: ASEE.
34. Gray*, C.M., Seifert, C.M., **Yilmaz, S.**, Daly, S.R., & Gonzalez, R. (2015, May). What is the content of 'design thinking'? Design Heuristics as conceptual repertoire. In Proceedings of the Harvey Mudd Design Workshop, Claremont, CA: MUDD.
- 2014
35. **Yilmaz, S.**, & Daly, S.R. (2014, October). Influences of feedback interventions on student concept generation and development practices. Design Thinking Research Symposia, West Lafayette, IN: DTRS.
36. Kotys-Schwartz, D., Daly, S.R., **Yilmaz, S.**, & Knight, D. (2014, June). Evaluating the implementation of Design Heuristic cards in an industry-sponsored capstone design course. In Proceedings of the ASEE Annual Conference, Indianapolis, IN: ASEE.
37. Kramer, J., Daly, S.R., **Yilmaz, S.**, & Seifert, C.M. (2014, June). A case-study analysis of Design Heuristics in an upper-level cross-disciplinary design course. In Proceedings of the ASEE Annual Conference, Indianapolis, IN: ASEE.
(**ASEE DEED Division Best Paper Award**)
38. Silk, E.M., Daly, S.R., Jablokow, K.W., **Yilmaz, S.**, & Rosenberg, M. (2014, June). The design problem framework: Using adaption-innovation theory to construct design problem statements. In Proceedings of the ASEE Annual Conference, Indianapolis, IN: ASEE.
(**Selected for DISTINGUISHED LECTURE: Best PIC Paper Presentation**)
(**Nominated for ASEE DEED Division Best Paper Award**)
39. **Yilmaz, S.**, Daly, S.R., Jablokow, K.W., Silk, E.M., & Rosenberg*, M. (2014, June). Investigating impacts on the ideation flexibility of engineers. In Proceedings of the ASEE Annual Conference, NSF Grantees Poster Session, Indianapolis, IN: ASEE.
40. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2014, June). Design Heuristics: An evidence-based tool to improve ideation. In Proceedings of the ASEE Annual Conference, NSF Grantees Poster Session, Indianapolis, IN: ASEE.
41. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2014, May). Design Heuristics as a tool for innovation. Conference on Psychology of Design: Creating Consumer Desire. Ann Arbor, MI: Society for Advertising & Consumer Psychology.
- 2013
42. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2013, September). Comparison of design approaches between engineers and industrial designers. In Proceedings of International Conference of Engineering and Product Design Education, Dublin, Ireland: EPDE.
(**Best Paper Award**)
- 2012
43. Christian, J.L., Daly, S.R., **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2012, June). Design Heuristics support two modes of idea generation: Initiating ideas and transitioning among concepts. In Proceedings of the ASEE Annual Conference, San Antonio, TX: ASEE.
44. **Yilmaz, S.**, Daly, S.R., Christian, J.L., Seifert, C.M., & Gonzalez, R. (2012, May) How do Design Heuristics affect outcomes? In: M. M. Andreasen, H. Birkhofer, S. J. Culley, U. Lindemann, and D. Marjanovic (Eds.), In Proceedings of 12th International Design Conference (DESIGN), pp. 1195-1204. Dubrovnik, Croatia: DESIGN.
- 2011
45. **Yilmaz, S.**, Daly, S.R., Christian, J.L., Seifert, C.M., & Gonzalez, R. (2011, August). Collaborative idea generation using design heuristics. In A.M. Maier, K. Mouggaard, T. J. Howard, and T. C. McAlloone (eds.), In Proceedings of 18th International Conference on Engineering Design: Impacting Society through Engineering Design, Copenhagen, Denmark: ICED.
46. Daly, S.R., **Yilmaz, S.**, Christian, J.L., Seifert, C.M. & Gonzalez, R. (2011, June). Teaching design ideation. In Proceedings of the ASEE Annual Conference, Vancouver, B.C., Canada: ASEE.
- 2010
47. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2010, September). Design Heuristics in ideation across engineering and industrial design domains. In C. Boks, C. McMahon, W. Ion, and B. Parkinson (eds.), In Proceedings of the 12th International Conference on Engineering and Product Design Education: When Design Education and Design Research Meet, Trondheim, Norway: EPDE.
48. **Yilmaz, S.**, Daly, S.R., Seifert, C.M., & Gonzalez, R. (2010, July). A comparison of cognitive heuristic use between engineers and industrial designers. In: J. S. Gero ed. Proceedings of the 4th International Conference on Design Computing and Cognition, pp. 3-22, Stuttgart, Germany: DCC.
(**Best Paper Award in Design Cognition**)

49. **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2010, July). Design Heuristics: Cognitive strategies for creativity in idea generation. In: J. S. Gero ed. Proceedings of the 4th International Conference on Design Computing and Cognition: pp. 35-54, Stuttgart, Germany: DCC.
50. Daly, S.R., **Yilmaz, S.**, Seifert, C.M., & Gonzalez, R. (2010, June). Cognitive heuristic use in engineering design ideation. In Proceedings of the ASEE Annual Conference, Louisville, Kentucky: ASEE.
51. **Yilmaz, S.**, & Seifert, C.M. (2010, May). Cognitive heuristics in design ideation. In Proceedings of International Design Conference, pp. 1007-1016, Dubrovnik, Croatia: DESIGN.

2009

52. **Yilmaz, S.**, & Seifert, C.M. (2009, October). Cognitive heuristics employed by design experts: A case study. In the Proceedings of the 3rd Conference of International Association of Societies of Design Research, Seoul, South Korea: IASDR.

WORKSHOP ORGANIZATION

1. *Measuring design cognition*
Co-organizers: Laura Hay (University of Strathclyde), Alex Duffy (University of Strathclyde) and Philip Cash (Technical University of Denmark)
Design Computing and Cognition Conference: DCC.
2. *Teach what you preach: transferring practice and skills from design of things to design of thinking, to change organizational cultures*
Co-organizer: Christine de Lille (TU Delft)
IDE Academy, TU Delft, Delft, the Netherlands (attendance: 50 graduate students in the Faculty of Industrial Design Engineering).
3. *Introduction to Design Heuristics for Creative Idea Generation in K-12*
Co-organizers: Jaclyn Murray, Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), Annual ASEE K-12 Workshop, Columbus, OH (attendance: 8 faculty members, 30 high school teachers).
4. *Incremental to radical idea generation: Using Ideation Flexibility Tools to support design success*
Co-organizers: Kathryn W. Jablow (Penn State) and Shanna R. Daly (University of Michigan)
ASME International Design Engineering Technical Conferences (IDETC) and Computer and Information in Engineering Conference (CIE), Charlotte, NC in August 2016 (attendance: 34 faculty members).
5. *First year engineering design idea generation with Design Heuristics*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
8th Annual First Year Engineering Experience Conference (FYEE), Columbus, OH in July 2016 (attendance: 40 faculty members from 35 institutions).
6. *Capstone product design idea generation with Design Heuristics*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Capstone Conference, Columbus, OH in June 2016 (attendance: 91 faculty members from 42 institutions).
7. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), New Orleans, LA in June 2016 (attendance: 65 faculty members from 52 institutions and 20 different departments).
8. *Using Design Heuristics for Creative Idea Generation in K-12 Engineering Design*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), Annual ASEE K-12 Workshop, New Orleans, LA in June 2016 (attendance: 58 teachers from 45 schools and 11 different disciplines).
9. *Innovation and creativity in teams*
Co-organizers: Shanna R. Daly (University of Michigan)
NSF Work Climate in Organizations Workshop: Multidisciplinary Perspectives on Innovation and Productivity.
Penn State University, University Park, PA in May 2016 (attendance: 28 faculty members from 14 institutions and 5 different departments).

10. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
ASME Student Professional Development Conference, Mankato, MN in April 2016 (attendance: 19 students from 7 institutions).
11. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Minnesota State University, Mankato, MN in April 2016 (attendance: 13 faculty members from 4 different departments).
12. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Olathe Northwest High School, Olathe, KS in April 2016 (attendance: 17 high school teachers from 10 departments).
13. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Harding University, Searcy, AR in March 2016 (attendance: 26 faculty members from 16 departments).
14. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Rowan University, Glassboro, NJ in February 2016 (attendance: 16 faculty members from 8 departments).
15. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Arizona State University, Tempe, AZ in February 2016 (attendance: 9 faculty members from 5 departments).
16. *Teaching idea generation: How to use Design Heuristics in your courses*
Co-organizers: Keelin S. Leahy (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Iowa State University, Ames, IA in January 2016 (attendance: 22 faculty members from 11 departments).
17. *Design Thinking: Define meaning, Refine values, and Reframe the vision*
Co-organizers: David Ringholz, Tejas Dhadphale, Verena Paepcke-Hjeltness (Iowa State)
Invited workshop for RDG Planning and Design Company, held in Nebraska City, NE in January 2016 (attendance: 21 executive board members).
18. *Developing Ideation Flexibility at Your Institution: Co-Creation of the Ideation TRIO*
Co-organizers: Kathryn W. Jablokow (Penn State) and Shanna R. Daly (University of Michigan)
ASME International Design Engineering Technical Conferences (IDETC) and Computer and Information in Engineering Conference (CIE), held in Boston, MA in August 2015.
19. *Building students' ideation ability through Design Heuristics*
Co-organizers: Colin M. Gray (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
LearnXDesign Conference, held in Chicago, IL in June 2015.
20. *Transforming idea generation using Design Heuristics*
Co-organizers: Colin M. Gray (Iowa State), Shanna R. Daly and Colleen M. Seifert (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), held in Seattle, WA in June 2015.
21. *Design Thinking*
Co-organizers: Tejas Dhadphale and David Ringholz (Iowa State)
Invited Workshop, Annual Meeting of the Iowa State 4-H Youth Development Management Team, held in Ames, IA in May 2015.
22. *Taking a Creative Thinking Approach to Business*
Co-organizers: Tejas Dhadphale and David Ringholz (Iowa State)
Invited Workshop, Entrepreneurial Agribusiness Executive Conference, held in Ames, IA in January 2015.
23. *Ideation Flexibility*
Co-organizers: Kathryn W. Jablokow (Penn State) and Shanna R. Daly (University of Michigan)
ASME International Design Engineering Technical Conferences (IDETC) and Computer and Information in Engineering Conference (CIE), held in Buffalo, NY in August 2014.
24. *Creative and diverse idea generation using Design Heuristics*
Co-organizers: Shanna R. Daly (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), held in Indianapolis, IN in June 2014.

25. *Design Thinking*
Co-organizers: David Ringholz (Iowa State)
Invited Workshop, College of Design Advancement Council Members, Iowa State University, held in Ames, IA in April 2014 (attendance: 21 Advancement Council members)
26. *Innovation*
Co-organizers: Erdem Selek, Hale Selek and David Ringholz (Iowa State)
College of Design, Iowa State University, held in Ames, IA in January 2014 (attendance: 40 undergraduate students from 12 different disciplines, over three days)
27. *Collaborative problem solving and ideation*
Co-organizers: Kathryn W. Jablockow (Penn State), Shanna R. Daly (University of Michigan) and Meisha Rosenberg (Iowa State)
Invited Workshop, American Packaging Corporation, held in Story City, IA in October 2013.
28. *Idea generation with 77 cards: Design Heuristics for inspiring ideas*
Co-organizers: Shanna R. Daly (University of Michigan)
Invited Workshop, University of Pittsburgh, held in Pittsburgh, PA in October 2013.
29. *Creative and diverse idea generation using Design Heuristics*
Co-organizers: Shanna R. Daly (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), held in Atlanta GA in June 2013.
30. *Creative and diverse idea generation using Design Heuristics*
Co-organizers: Shanna R. Daly (University of Michigan)
Annual Conference of American Society of Engineering Education (ASEE), held in San Antonio, TX in June 2012.

PROFESSIONAL SERVICE

- Member of Board of Directors, **National Association of Schools of Art and Design (NASAD)**, 2023-present
- Associate Editor, **Design Science Journal**, 2019 – present
- Education Council Member, **Industrial Design Society of America (IDSA)**, 2020 – 2022
- Visiting Evaluator, **National Association of Schools of Art and Design (NASAD)**, 2019 – present
- Planning Council Member, **The Way Up Conference**, 2020 – 2022
- Board Member, **IowaWHE: Women's Network of Iowa**, 2019 – 2021
- Committee Member, **The Design Science Journal ICED19 Selection Committee**, 2019
- Invited Co-Guest Editor, **Design Science Journal**, 2018-2020
Thematic Collection: Understanding Design through Empirical Measurement
- Conference Chapter Organizer, **International Conference of Design Research Society (DRS)**, March 2016
Chapter Theme: Design thinking in industry and academia
- Meeting Organizer, **NSF I/UCRC Center for e-Design**, April 2016
Industry Advisory Board Meeting, Chicago, IL -- 57 participants from 7 universities and over 30 companies
- Founding Faculty Member, **North American Chapter of the Design Society**, 2015
- Editorial Board Member, **Design Science Journal**, 2018-present

Advisory Board Member

International Conference on Design Creativity (ICDC), 2016, 2018
 International Design Conference (DESIGN), 2014, 2016, 2018
 International Conference on Design Computing and Cognition (DCC), 2014, 2016, 2018
 International Conference of Engineering Design (ICED), 2013, 2015, 2017
 Engineering and Product Design Education Conference (EPDE), 2014

REFeree SERVICE

Funding Agency Panelist

National Science Foundation Panelist (multiple calls per year), 2012, 2015, 2016, 2017, 2018, 2019, 2021, 2022, 2023, 2024

Referee for Journal Articles

Design Science, 2015, 2016, 2017, 2018, 2019, 2020, 2023
 Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 2010, 2011

Design Studies, 2012, 2014, 2018, 2020, 2023
International Journal of Engineering Education, 2010, 2017
Journal of Engineering Design, 2013
Journal of Engineering Education, 2014, 2015, 2016
Journal of Mechanical Design, 2013, 2014, 2015, 2016, 2017, 2018

Referee for Conference Proceedings

International Design Conference (DESIGN), 2012, 2014, 2016
International Conference on Design Cognition and Computing (DCC), 2012, 2014, 2016
International Conference of Design Research Society (DRS), 2010, 2012, 2014, 2016
Annual Conference of American Society of Engineering Education (ASEE), 2014, 2015, 2016, 2017, 2018
International Design Engineering Technical Conference and Computers and Information in Engineering Conference (ASME IDETC), 2012, 2014, 2015, 2016, 2017, 2018
International Conference on Engineering Design (ICED), 2013, 2015, 2017
International Conference of International Association of Societies of Design Research (IASDR), 2011, 2013, 2017,
Design Thinking Research Symposia (DTRS), 2012, 2014, 2016
International Conference on Engineering and Product Design Education (EPDE), 2011, 2012, 2013, 2014

UNIVERSITY, COLLEGE, and DEPARTMENT SERVICE

Search Committees

University: Senior Vice President and Provost, 2024
University: Facilities Manager, Student Innovation Center, 2019
University: Administrative Executive, Center for e-Design, 2015
University: Director of Research Development, 2014
University: Associate Director of Center for e-Design, 2014
University: Vice President for Research, 2013
College: Interior Design Department Chair (Committee Chair), 2023
College: Administrative Assistant II (Hiring Manager), 2023
College: Director of Budget and Finance (Hiring Manager), 2023
College: Director of Multicultural Student Success and DEI (Hiring Manager), 2023
College: Graphic Design, Industrial Design, and Art and Visual Culture Department Chairs, 2019-2022
College: Graphic Design Faculty, 2012
Department: Industrial Design Faculty (Committee Chair), 2012, 2014, 2016, 2018
Department: Industrial Design Faculty (Hiring Manager), 2019, 2020

Curriculum, Degree Planning, Research and Faculty Affairs Committees

University: Associate Deans for Academic Personnel Committee, 2023-present
University: Research Leadership Council Committee, 2023-present
University: Research Leadership Council Working Group (co-lead), 2023-present
University: Strategic Enrollment Management Steering Committee, 2019
University: Computer Curriculum Coordinating Committee, 2018-2023
University: Associate Deans for Graduate Programs Committee, 2018-2023
University: Council for International Programs, 2018-2023
University: Associate Deans for Distance Education Committee, 2018-2023
University: Undergraduate Programs Council, 2018-2023
University: Student Innovation Center Academic Programming (Chair), 2018-2019
University: Graduate Council, 2012-2013
University: Graduate Council ad-hoc Committee, 2015
University: Interdisciplinary Integrated Design Innovation PhD Curriculum Planning, 2012
College: Strategic Planning for Interdisciplinary Curriculum (Chair), 2018-2023
College: Design Entrepreneurship Initiatives (Chair), 2019-2021
College: Core Design Program Committee (Chair), 2018-2023
College: Directors of Graduate Education Committee (Chair), 2018-2023
College: Academic Affairs Council, 2014-2016, 2018-2023 as ex-officio
College: Master of Design in Sustainable Environments Curriculum Planning, 2012-2015
College: Liaison Council, 2013

College: Core Board Instructional Model Planning, 2010-2014
College: Bachelor of Design Curriculum Planning, 2012
Department: Director of Industrial Design Undergraduate Education, 2014- 2016
Department: Director of Industrial Design Graduate Education, 2017 Fall

Review Committee

University: CEAH Research and Symposium Grants Review Committee, 2023-present
University: International Service Award Committee, 2019, 2020
University: Presidential Interdisciplinary Research Seed Grant Internal Review Committee, 2018
University: Miller Graduate Student Fellowship Awards, 2012
University: Center for Excellence in the Arts and Humanities (CEAH) Research Grants, 2012
College: Advancement, Promotion and Tenure Committee, 2017 – 2018
Department: Advancement, Promotion and Tenure Committee (Chair), 2017 – 2018
Department: Industrial Design Chair Performance Review, 2014

Faculty Advisor

University: Undergraduate Student Research Conference, 2015, 2016, 2018
University: International Leadership Program, 2015
University: Undergraduate Research Assistantship Program, 2010-2018
University: Honors Program, 2010-2014
University: NSF REU Site, 2011
Department: Director of Graduate Education, 2017 (responsible for advising all MID students)

ADVISING

PAST POSTDOCTORAL ADVISEES

Nicholas Fila, 2017-2019

Department of Industrial Design and Electrical and Computer Engineering, Iowa State University
Research Assistant Professor, Electrical and Computer Engineering, Iowa State University

Jaclyn Murray, 2016-2017

Department of Mechanical Engineering, University of Michigan
Assistant Professor, Science Education, Augusta University

Keelin Leahy, 2015-2016

Department of Industrial Design, Iowa State University
Senior Lecturer, Technology Education, University of Limerick, Ireland

Colin M. Gray, 2014-2015

Department of Industrial Design, Iowa State University
Associate Professor and HCI/d Program Director, Luddy School of Informatics, Computing, and Engineering, Indiana University

CURRENT and PAST PhD and MASTERS ADVISEES

Spencer Goergen, Dissertation Committee Chair, 2023-present

Doctor of Philosophy, Human Computer Interaction
Dissertation Title: AI-Driven education in UI coding for UX designers and its impact on designer and developer collaboration

Melika Ziba, Thesis Committee Chair, 2023-2024

Master of Industrial Design and Master of Science, Industrial Design and Human Computer Interaction
Thesis Title: Beyond traditional manuals: A comparative analysis of instruction manual effectiveness in handheld consumer products

Rachel Schmitz, Thesis Committee Member, 2023-present

Master of Industrial Design, Industrial Design

Li Jiang, Dissertation Committee Member, 2021-present

Doctor of Philosophy, Apparel, Design & Merchandising
Dissertation Title: Consumer attitudes and intentions in the context of digital textile technique-based design processes and their influence on garment life decisions

Aaron DeBoer, Thesis Committee Member, 2022-2023

Master of Arts, Interior Design

Thesis Title: Technology in creative ideation: Exploring attitudes and perception among professional interior designers

Spencer Goergen, Thesis Committee Chair, 2020-2022

Master of Industrial Design and Master of Science, Industrial Design and Human Computer Interaction

Thesis Title: Prototyping: Evaluating feedback through negative emotional response in UX digital prototypes

Current Position: Design Strategist at IBM

Kaitlyn Ouverson, Dissertation Committee Member, 2020-2023

Doctor of Philosophy, Human Computer Interaction

Dissertation Title: Exploring collaboration in virtual reality between non-head-mounted display and head-mounted display users

Current Position: User Experience Researcher at IBM

Burcu Bicak, Dissertation Committee Member, 2019-present

Doctor of Philosophy, Apparel, Design & Merchandising

Dissertation Title: Seamless knitted compression activewear leggings design with comfort-related properties in two different compression levels: Explanatory design mixed methods study

Joel Hughes, Thesis Committee Member, 2019-2020

Master of Fine Arts, Graphic Design

Thesis Title: Field notes from infalling observer; Sequence 8, and Unidentified inquiry/Unknown wave

Yun Dong, Dissertation Committee Member, 2018-2022

Doctor of Philosophy, Human Computer Interaction

Dissertation Title: Investigating newly hired engineers' proactive actions and engineering managers' supportive actions during organizational socialization within the aerospace and defense industry

Priyanka Krishnan, Thesis Committee Chair, 2018-2020

Master of Industrial Design, Industrial Design

Thesis Title: Cards for women

Current position: Instructional Designer at Facebook

Alex Voitenko, Dissertation Committee Member, 2018-2021

Doctor of Philosophy, Human Computer Interaction

Thesis Title: Perception of software quality within an agriculture company

Current position: Automation Project Engineer at Corteva

Hye Jeong Park, Dissertation Committee Member, 2016-2021

Doctor of Philosophy, Human Computer Interaction

Thesis Title: Design thinking integration into Human Computer Interaction education

Current position: Assistant Professor of Graphic Design at University of Northern Colorado

Samantha Creeger, Thesis Committee Chair, 2017-2019

Master of Science, Human Computer Interaction Graduate Program

Thesis Title: Innovative design problem exploration

Current position: Senior Experience Designer at NewDealDesign

Daniel Sevier, Thesis Committee Member, 2015-2019

Master of Industrial Design, Industrial Design

Thesis Title: Raise: Parental monitoring and facilitation of child visual-spatial development

Current position: UX/HF Design Analyst at Lenovo

Jaryn A. Tuttle (Studer), Thesis Committee Chair, 2015-2017

Master of Science, Human Computer Interaction

Thesis Title: Tackling the 'right' problem: Investigating cognitive strategies used in understanding design problems

Current position: User Experience Researcher at Macmillan Learning

Monica Amman, Thesis Committee Member, 2016-2017

Master of Industrial Design, Industrial Design

Thesis Title: Transitions in the design process

Current position: Senior UX Research at Wellmark Blue Cross Blue Shield

Nadia Jaramillo, Dissertation Committee Member, 2014-2019

Doctor of Philosophy, Curriculum, and Instructional Technology

Dissertation Title: Examining the impact of technology-mediated oral communicative tasks on students' willingness to communicate and communicative performance

Current position: Course Development and Training Specialist at Oregon State University

Qing Guo, Thesis Committee Member, 2015-2016

Master of Science, Human Computer Interaction

Thesis Title: An icon preferences study on colors

Current position: Product Designer III at RMS

Sang-Duck Seo, Dissertation Committee Member, 2014-2016

Doctor of Philosophy, Human Computer Interaction

Dissertation Title: A study on interaction-driven comparison between analog and digital user centered design for gaming control interface on smartphone

Current position: Professor at University of Nevada

Asime Dika, Thesis Committee Member, 2014-2016

Master of Industrial Design, Industrial Design

Thesis Title: Designing compact dishwashers

Current position: Industrial Designer at Hudson Valley Lighting

Linsey Croghan, Thesis Committee Member, 2014-2016

Master of Industrial Design, Industrial Design

Thesis Title: Food waste management and composting

Current position: User Experience Specialist III at John Deere

Hye Jeong Park, Thesis Committee Member, 2014-2016

Master of Fine Arts, Graphic Design

Thesis Title: Service design elements in graphic design

Current position: PhD student in Human Computer Interaction at ISU

Matthew Darden, Dissertation Committee Member, 2013-2016

Doctor of Philosophy, Mechanical Engineering

Dissertation Title: Human perception of tactility

Current position: Systems Engineer, Lockheed Martin

Dan Neubauer, Thesis Committee Member, 2014-2015

Master of Industrial Design, Industrial Design

Thesis Title: Need finding strategies employed by non-designers

Current Position: Associate Teaching Professor at ISU

Meisha Rosenberg, Thesis Committee Member, 2013-2014

Master of Science, Mechanical Engineering

Thesis Title: Exploring the role of large-scale immersive computing environments in design education

Current Position: User Experience Researcher at Lean TECHniques Inc.

Michael Tschampl, Thesis Committee Chair, 2011-2014

Master of Industrial Design, Industrial Design

Thesis Title: Interaction design strategies for open-ended play

Current position: Senior User Experience Designer at Hach Company

Ellora Hans-Price, Thesis Committee Co-Chair, 2011-2015

Master of Industrial Design, Industrial Design

Thesis Title: Meeting Stockholm

Current position: Lead Brand Designer at AERON Lifestyle Technology

Jinjuan She, Dissertation Committee Member, 2011-2014

Doctor of Philosophy, Mechanical Engineering

Dissertation Title: Creation and validation of design methods for increasing customer sustainability considerations

Current position: Assistant Professor at Miami University

Christopher Miller, Thesis Committee Member, 2012-2013
 Master of Science, Mechanical Engineering
 Thesis Title: Innovation in engineering design
 Current position: Ph.D. student at Carnegie Mellon University

Patrick Finley, Thesis Committee Member, 2011-2013
 Master of Fine Arts, Graphic Design
 Thesis Title: Effectiveness of desktop websites to mobile websites conversions
 Current position: Assistant Professor in Graphic Design at Iowa State University

COURSES TAUGHT

Term	Course #	Course Title	Cr	Enrollment
Senior Associate Dean (Fall 2023 – present)				
Spring 2024	IndD 530	Design Thinking	3	45
Fall 2023	IndD 530	Design Thinking	3	73
Associate Dean for Academic Programs (Fall 2018 - Spring 2023)				
Spring 2023	IndD 530	Design Thinking	3	53
Fall 2022	IndD 530	Design Thinking	3	34
Fall 2021	IndD 530	Design Thinking	3	51
Interim Department Chair of Industrial Design (Fall 2019 – Spring 2021) and Associate Dean for Academic Programs				
Fall 2018	IndD 532	Design Thinking	3	18
Associate Professor of Industrial Design				
Fall 2017	IndD 301	Junior Studio	6	19
Fall 2016-Spring 2017	FPDA (sabbatical year at Technical University of Delft)			
Fall 2015	IndD 301	Junior Studio	6	15
Fall 2015	IndD 332/IndD 631	Design Research Methods	3	72
Assistant Professor of Industrial Design				
Spring 2015	IndD 502	Graduate Studio Intensive II (co-taught)	6	9
Fall 2014	IndD 301	Junior Studio with Tupperware	6	20
Fall 2014	IndD 332	Design Research Methods	3	39
Spring 2014	IndD 232/DES 230	Creative Thinking/Design Thinking	3	55
Spring 2014	IndD 507	Sponsored Studio with Boeing	6	28
Fall 2013	IndD 301	Junior Studio with Allsteel	6	16
Fall 2013	IndD 332	Design Research Methods	3	34
Fall 2012	IndD 231	Introduction to Industrial Design	3	37
Fall 2012	IndD 332	Design Research Methods	3	32
Spring 2012	IndD 232/DES 230	Creative Thinking/Design Thinking	3	54
Spring 2012	IndD 502	Graduate Studio Intensive II	6	8
Fall 2011	IndD 231	Introduction to Industrial Design	3	35
Fall 2011	IndD 332	Design Research Methods	3	19
Spring 2011	IndD 232	Creative Thinking	3	19
Fall 2010	IndD 231	Introduction to Industrial Design	3	20