

DAEJIN KIM Ph.D., EDAC, CAPS, LEED Green Associate

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I. CANDIDATE INFORMATION

Education

- 2016** **Doctor of Philosophy in Design, Construction, and Planning**
College of Design, Construction, and Planning, University of Florida, Gainesville, FL
Minor in Research Evaluation Methodology: Quantitative Methods,
Dissertation: "Toward design strategies for fall prevention: A case-control study of home safety in a senior living community"
- 2010** **Master of Science in Housing & Interior Design**
College of Human Ecology, Yonsei University, Seoul, South Korea
Thesis: "Planning for healing environment through evidence-based design: Focusing on geriatric hospital"
- 2008** **Bachelor of Science in Engineering (Architectural Engineering)**
College of Engineering, Inha University, Incheon, South Korea

Professional Experience

- 2018-** **Assistant Professor (Tenure-track)**
Department of Interior Design, College of Design, Iowa State University, Ames, IA
Human-Computer Interaction Graduate Program (affiliated faculty)
- 2017-** **Post-Doctoral Research Fellow of Housing Research**
2018 Department of Family and Consumer Sciences, North Carolina Agricultural and Technical State University, Greensboro, NC
- 2012** **Part-time lecturer (one semester)**
Department of Interior Design, Shin Ansan University, Ansan, South Korea
- 2010-** **Design Researcher**
2012 Urban Research Lab, Seoul Housing & Communities Corporation, Seoul, South Korea
- 2001-** **Interior Designer**
2003 OI Design Studio, Seoul, South Korea

Licensure / Certification

- 2018** **Certified Aging in Place Specialist (CAPS)**
National Association of Home Builders
- 2016** **Evidence-Based Design Accreditation & Certification (EDAC), CHD-102886**
The Center for Health Design

- 2016 **LEED Green Associate, # 0011090733**
U.S. Green Building Council
- 2016 **Interdisciplinary Certificate in Gerontology**
University of Florida, FL, Gainesville
- 2008 **Engineer Architecture, #072011023360**
Human Resources Development Services of Korea, South Korea
- 2005 **Industrial Engineer Interior Architecture, South Korea, #05202075345J**
Human Resources Development Services of Korea, South Korea

II. SCHOLARSHIP

Book Publication

- 2024¹ **Kim, D.**, & Kopec, D. *Space planning for healthcare design*, Bloomsbury Publishing

Journal Articles [Peer Reviewed]

- 2023 **Kim, D.**, Lee, M., Kang, J. Exploring differences in home modification strategies according to housing location and disability status of the household: Analysis of the 2019 American Housing Survey, *Journal of Applied Gerontology* (SSCI, IF=3.0), <https://doi.org/10.1177/07334648231202678>
- 2023 Lee, M., **Kim, D.**, Bian, J., Romero, S., Bliznyuk, N. Identifying demographic and home features influencing older adults' home functioning by using machine learning models, *Archives of Gerontology and Geriatrics* (SCI, IF=4.163), <https://doi.org/10.1016/j.archger.2023.105149>
- 2023 Alam, S, **Kim, D.**, Wayfinding design for older adults with dementia in a long-term care facility, *Health Environment Research and Design Journal* (SSCI, IF=3.233), <https://doi.org/10.1177/19375867231185851>
Parks, M., **Kim, D.** Using a web-based digital simulation to foster empathy for older adults with eye impairments, *Educational Gerontology* (SSCI, IF: 1.389), <https://doi.org/10.1080/03601277.2023.2180205>
- 2022 **Kim, D.**, Bian, H., Chang, C., Dong, L, Margreet, J. Unobtrusive in-home monitoring for aging in place: A scoping review, *Interactive Journal of Medical Research* (ESCI, IF=2.0), 11(2):e39005, <https://www.i-jmr.org/2022/2/e39005/>
- 2022 Lee, M.J., **Kim, D.**, Romero, S., Hong, I., Bliznyuk, N., Velozo, C. Examining older adults' home functioning using the American Housing Survey. *Int. J. Environ. Res. Public Health* (SSCI, IF=4.50), 19, 4691, <https://doi.org/10.3390/ijerph19084691>
- 2021 **Kim, D.** Understanding how older adults negotiate environmental hazards in their home, *Journal of Aging and Environment* (SCOPUS, SJR IF=0.383), 36(2), 173-193, <https://doi.org/10.1080/26892618.2021.1918814>

¹ The book is currently undergoing revisions following peer-review and will be published in 2024.

- 2021 Sprowls, M., Serhan, M., Chou, E., Lin, L., Frames, C., Kucherenko, I., Mollaeian, K., Li, Y., Jammula, V., Logeswaran, D., Khine, M., Yang, Y., Lockhart, T., Claussen J., Dong, L., Chen, J. J., Ren, J., Gomes, C., **Kim, D.**, Margrett, J., Narasimhan, B., Forzani, E. Integrated sensing systems for monitoring interrelated physiological parameters in young and aged adults: A Pilot study, *International Journal of Prognostics and Health Management (SCOPUS, IF=0.53)*, 12(4), 1-15, <https://doi.org/10.36001/ijphm.2021.v12i4.2914>
- 2021 **Kim, D.**, Chang, C., Margaret, J. Understanding older adults' perception and usage of indoor lighting in independent senior living, *Health Environment Research and Design Journal (SSCI, IF=3.233)*, 14(3), 215-228, <https://doi.org/10.1177/1937586720988616>
- 2021 Parrott, K R., Lee, S., **Kim, D.**, Robinson, S. R. & Giddings, V. L. The role of informal support systems in residential environments for low-income older renters: An exploratory study, *Housing and Society (Scopus, SJR IF=0.154)*, 48:3, 314-327, <https://doi.org/10.1080/08882746.2020.1839841>
- 2020 **Kim, D.**, Bosch, S. J., Lee, J. H. Alone with others: Response and needs of college students at the academic library, *Journal of Academic Librarianship (SSCI, IF=1.953)*, 46(2), 102098, <https://doi.org/10.1016/j.acalib.2019.102098>
- 2019 **Kim, D.**, Lee, S., Kim, S-K, Giddings, V. L., & Robinson, S. R. Home environmental barriers for low-income older renters: An empirical study with the aging-in-place perspective. *Journal of Architectural and Planning Research*, 36(1), 15-34, [SSCI, IF=0.439]. <https://www.jstor.org/stable/26949371>
- 2019 Lee, S., **Kim, D.**, Kim, S-K., Parrott, K. R., Giddings, V. L., & Robinson, S. R. Emerging themes on aging in place from low-income elderly renters, *Housing and Society (Scopus, SJR IF=0.154)*, 46(2), 110-127, <https://doi.org/10.1080/08882746.2019.1613880>
- 2019 Lee, S., **Kim, D.**, Parrott, K. R., Giddings, V. L., & Robinson, S. R. Financial and health challenges for low-income (US) elderly homeowners aging in place, *Journal of Family and Consumer Sciences (ERIC, SJR IF=0.38)*, 111(2), 31-42, <https://doi.org/10.14307/JFCS111.2.31>
- 2018 **Kim, D.**, & Portillo, M. Fall hazards within senior independent living: A case-control study of high and low fall rate buildings, *Health Environment Research and Design Journal (SSCI, IF: 3.233)*, 11(4), 65-81, <https://doi.org/10.1177/1937586717754185>

Work prior to joining ISU faculty

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- 2017 Lee, S., **Kim, D.**, Parrott, K. R., Giddings, V. L., & Robinson, S. R. Perceptions on residential environments for urban low-income elderly homeowners aging in place, *Housing and Society*, 44(1-2), 4-21, <https://doi.org/10.1080/08882746.2017.1384992>
- 2017 **Kim, D.**, & Ahrentzen, S. Environmental and behavioral circumstances and consequences of falls in a senior living development, *Journal of Housing for the Elderly*, 31(4), 286-301, <https://doi.org/10.1080/02763893.2017.1335667>

- 2017 Platt, L. S., Bosch, S. J., & **Kim, D.** Toward a framework for designing person-centered mental health interiors for veterans, *Journal of Interior Design*, 42(2), 27-48.
- 2016 Bosch, S. J., Apple, M., Hiltonen, B., Worden, E., Lu, Y., Nanda, U., & **Kim, D.** To see or not to see: Investigating the links between patient visibility and potential moderators affecting the patient experience, *Journal of Environmental Psychology*, 47, 33-43
- 2016 Campbell, N., & **Kim, D.** Designing an ageless social community: Adapting a new urbanist social core to suit baby boomers in later life, *Journal of Housing for the Elderly*, 30(2), 156-174
- 2014 **Kim, D.**, Lee, J. H., & Ha, M. Exploring perceptions of designers and medical staff in South Korea about design elements for the elder-friendly hospital, *Journal of Interior Design*, 39(4), 15-32

Invited Publications [Editor]

- 2021 **Kim, D.** Residential design for reducing falling risks, *Korea Housing Association*², 15(2), 5-10
- This paper examined various factors related to older adults' falling in their homes and provided design strategies to minimize injuries.

Conference Presentations [Peer-Reviewed Abstracts]

- 2023 Alam, S, **Kim, D.**, *Wayfinding design for older adults with dementia in a long-term care facility*, Interior Design Educators Council (IDEC) Annual Conference, March 8-12, Vancouver, 2023 [Poster presentation]
- 2023 Parks, M., **Kim, D.** *Using a web-based digital simulation to foster empathy for older adults with eye impairments*, Interior Design Educators Council (IDEC) Annual Conference, March 8-12, Vancouver, 2023 [Poster presentation]
- 2022 **Kim, D.**, Lee, J., Das, B., Peterson, N. *Revitalizing small communities for aging population in Iowa: Making home modifications more accessible*, Housing Education Research Association (HERA) conference, October 16-18, 2022, St. Louis, MO
- 2022 Campbell, C., **Kim, D.**, Funke L., Wehr, T. *Micro-hospitals: Design for inclusive healthcare delivery*, Healthcare Design Conference, October 9-11, 2022, San Antonio, TX
- 2022 **Kim, D.**, Campbell, C. *Teaching interdisciplinary healthcare design studio with real-world problems*, Environmental Design Research Association (EDRA) 53th Annual Conference, April 1-4, 2022, Greenville, SC
- 2022 **Kim, D.**, Campbell, C., Song, J. *Changing perceptions of design students in interdisciplinary healthcare design studio*, Interior Design Educators Council (IDEC) Annual Conference, March 1-4, 2022; Virtual
- 2021 **Kim, D.**, Chang, C., Margaret, J. *Toward new ambient intelligence technology of lighting system in senior housing facilities*, Housing Education Research Association (HERA) Conference, October 31-November 3, 2021; Virtual

² Korea Housing Association is a top-tier academic publication in South Korea. This manuscript was written in Korean.

- 2021 **Kim, D.,** & Cho, Y. *Uncovering hidden dimensions of lighting assessment through a computer simulation.* Interior Design Educators Council (IDEC) Annual Conference, March 1-5, 2021; Virtual
- 2020 Chang, Y., Faccin, V., Malloy, E., **Kim, D.** *Designing for all senses: Empowering brand identity through multi-sensory design,* Environmental Design Research Association (EDRA) 51st Annual Conference, April 4-7, 2020: Virtual
- 2020 **Kim, D.,** Chang, C., Margaret, J. *Living in darkness: Lighting issues in a senior housing,* Environmental Design Research Association (EDRA) 51st Annual Conference, April 4-7, 2020, Virtual
- 2019 **Kim, D.** *The circumstances and consequences of falls among the oldest old in an independent living community,* Housing Education Research Association (HERA) Conference, November 10-13, 2019, Austin, TX
- 2019 Lee, S., Mo, Y., **Kim, D.,** Parrott, K., Kim, S., Giddings, V. L., & Robinson, S. R. *Residential environment perceptions by tenure type among urban low-income older adults,* Housing Education Research Association (HERA) conference, November 10-13, 2019, Austin, TX
- 2019 Campbell, C., Ade-Aina, B. O., **Kim, D.** *Making a case for evidence-based design precedents in architectural education.* Inaugural International Nursing Conference for Excellence in Healthcare Design, August 14-17, 2019, Clemson, SC [Poster presentation]
- 2019 Campbell, C., **Kim, D.,** Song, J. *Lessons from an interdisciplinary wellness design practice studio.* Inaugural International Nursing Conference for Excellence in Healthcare Design, August 14-17, 2019, Clemson, SC [Poster presentation]
- 2019 Lee, S., Parrott, K., **Kim, D.,** Giddings, V. L., & Robinson, S. R. *Understanding 'aging in place' practices for low income elderly homeowners in NC urban areas,* American Association of Family and Consumer Sciences (AAFCS) conference, June 23-26, 2019, St. Louis, MO
- 2019 **Kim, D.** *Negotiating environmental challenges: How does older adults adapt to their environment?* Interior Design Educators Council (IDEC), March 6-9, 2019, Charlotte, NC
- 2019 **Kim, D.,** Lee, J., Bosch, S. *Alone with others: A dialectical interplay of college students' needs and preferences at a university library.* Interior Design Educators Council (IDEC) 2019, March 6-9, Charlotte, NC
- 2018 Parrott, K., Lee, S., **Kim, D.,** Giddings, V. L., & Robinson, S. R. *Aging-in-Place: The role of informal support systems,* Housing Education Research Association (HERA), October 7-10, 2018, Savannah, GA

Work prior to joining ISU faculty.

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- 2018 **Kim, D.,** Lee, S., Kim, S., Giddings, V. L., & Robinson, S. R. *Mitigating home environmental challenges for older renters in low-income community dwellings.* American Association of Family and Consumer Sciences (AAFCS) conference, Atlanta, GA, June 24-27, 2018
- 2018 Young, L., Lee, S., **Kim, D.,** Giddings, V. L., Robinson, S. R. *Housing Unit Location and Food Dessert Issues for Low-Income Elderly Renters.* North Carolina American

Association of Family and Consumer Sciences (NCAAFCS) conference, Wilmington, NC, March 22-24, 2018

- 2018** Walston, S., Lee, S., **Kim, D.**, Giddings, V. L., Robinson, S. R. *Health Concerns among Low-Income Elderly Renters: Aging in Place*. North Carolina American Association of Family and Consumer Sciences (NCAAFCS) conference, Wilmington, NC, March 22-24, 2018
- 2018** Lee, J., Portillo, M., **Kim, D.** Finders or makers? *Lessons offered across the disciplines on developing creative confidence*. Interior Design Educators Council (IDEC), Boston, MA, March 7-10, 2018
- 2017** **Kim, D.**, Lee, S., Kim, S., Giddings, V. L., & Robinson, S. R. *Environmental challenges of NC low-income elderly renters*. Housing Education Research Association (HERA) conference, Lowell, MA, October 8-11, 2017
- 2017** Lee, S., **Kim, D.**, Parrott, K. R., Giddings, V. L., & Robinson, S. R. *Residential environment for NC Urban low-income elderly homeowners aging in place*. Housing Education Research Association (HERA) conference, Lowell, MA, October 8-11, 2017
- 2017** **Kim, D.** *Uncovering differences in environmental hazards from objective and subjective assessment approaches*. Environmental Design Research Association (EDRA) 48th Annual Conference, Madison, WI, May 31-June 3, 2017
- 2017** **Kim, D.**, & Portillo, M. *Case-control study of environmental hazards associated with residents' fall risks within senior independent living*. Interior Design Educators Council (IDEC) conference, Chicago, IL, March 8-11, 2017
- 2016** Bosch, S., & **Kim, D.** *Mission accomplished? Evaluating a technology-infused collaborative place for students*. Environmental Design Research Association (EDRA) 47th Annual Conference, Raleigh, NC, June 1-4, 2016
- 2015** **Kim, D.**, & Portillo, M. *How do perceptions of the physical environment change in later life?*, Environmental Design Research Association (EDRA) 46th Annual Conference, Los Angeles, CA, May 27-30, 2015
- 2014** Lee, J. H., **Kim, D.**, & Portillo, M. *How can I change the world? Exploring high impact creative learning experiences across majors with implications for Interior Design*, IDEC regional conference, Tallahassee, FL, October 24-25, 2014
- 2013** **Kim, D.**, & Torres, M. *The development of a framework for evaluating evidence in evidence-based healthcare design*. Healthcare Design Conference, Orlando, FL, November 16-19, 2013
- 2013** **Kim, D.**, & Lee, J. H. *Toward multidisciplinary healthcare design: Contrasting views of designers and medical staff*. Environmental Design Research Association (EDRA) 44th Annual Conference, Providence, RI, May 29-June 1, 2013

Invited Lectures and Presentations (Internal)

- 2022** *Lighting design for older adults*, Industrial Design Senior Studio (Pollock), January 22, 2022
- 2019-2020** *Research Presentation*, DSN S 501X Introduction to Research Design, (Dhadphale), November 4, 2019 & November 16, 2020

- 2019 *Innovation in aging: Role of the environment in older adults' falls prevention*, Gerontology program (Margaret and Hillman), January 22, 2019
- 2018 *Smart home housing for older adults*, COMS 414/514 Geron-technology (Chang), September 6, 2018

Invited Lectures and Presentations (At other universities in South Korea)

- 2023 *How interdisciplinary research and design are transforming healthcare design: Insight and best practices*, Seminar class (Ha), Yonsei University, Seoul, South Korea, June 12, 2023

Role of interior designs in super-aged society, Department seminar (Lee), Chung-Ang University, Anseong, South Korea, June 5, 2023
- 2022 *Healthcare design now and Future*, Seminar class (Seo), Hankyong National University, Anseong, South Korea, June 13, 2022
- 2021 *Aging in Place: Safety at Home*, Seminar class (Ha), Yonsei University, Seoul, South Korea, November 29, 2021; Virtual

Invited Conference Presentations

- 2020 *Fall prevention design*, Korea Housing Association Autumn Conference, Seoul, South Korea, November 15, 2020; Virtual
- 2019 *Public housing in the U.S.: Co-location project*, Seoul Housing & Communities Corporation, and Korean Architecture Association Seminar, December 19, 2019

Invited Outreach Presentations

- 2023 *Is your home ready for aging in place?* ISU Retirees' Lecture Series, January 26, 2023; Virtual
- 2022 *Mental Health in Older Adults Webinar Series*, Living with Dignity - Appropriate Aging Settings and Age-Friendly Communities, Joining as one of three presenters, September 1, 2022; Virtual,
<https://hhs.iowa.gov/DependentAdultProtectiveServices/Families/Resources>
- 2022 *Making the homework to age in place*, In-Depth Week: Aging in Iowa, Joining as one of four panelists by The Gazette, July 21, 2022; Virtual,
<https://www.iowaideas.com/in-depth/aging-2022>
- 2021 *Understanding older adults' perception and usage of indoor lighting in independent senior living*, EBD Journal Club, August 12, 2021; Virtual with Bian, H & Margaret, J, <https://www.healthdesign.org/events/361>

Home modification for successful aging in place, Iowa Fall Prevention Coalition, January, 14, 2021; Virtual
- 2019 *Office design trend*, EMC Insurance (Innovation lab director in EMC Insurance: Santos), Des Moines, IA, USA, September, 13, 2019,

Fall prevention design, Green Hill Retirement Community (CEO: Copple), Ames, IA, USA, February, 14, 2019, Invited by CEO in Green Hill Retirement, Rod Copple

Local Press

- 2022 ISU interior design students present home modifications for aging adults, Globe Gazette, [Link](#)

ISU students offer Charles City ideas on how to make homes more age-friendly, Charles City Press, [Link](#)

Symposium Contribution

2018 Lee, S., Kim, S.-K., Parrott, K. R., **Kim, D.**, Giddings, V. L., & Robinson, S. R. *Aging in place challenges for urban low-income older renters*. In M. Ahn (Chair), *Aging In Place (AIP)*. Symposium conducted at the Annual Conference of the Housing Education and Research Association, October 7-10, 2018, Savannah, GA

III. TEACHING

Courses Taught

Term	Course #	Course Title	Cr	Enrollment
SS2023	DSN S 501	Introduction to Research Design	3	22
S2023	ARTID 367	ID STUDIO III	4	16
	ARTID 570X	Social Entrepreneurship in Aging	3	16
F2022	DSN S 501	Introduction to Research Design	3	17
	ARTID 465	ID STUDIO V	4	18
S2022	DSN S 546	Interdisciplinary Design Studio: Design for Health (Co-teaching with Campbell)	6	23
	ARTID 569A	Environmental Psychology for Design	3	19
F2021	DSN S 501X	Introduction to Research Design	3	12
	ARTID 465	ID STUDIO V	4	13
S2021	DSN S 546	Interdisciplinary Design Studio: Design for Health (Co-teaching with Campbell)	6	23
	ARTID 552	Design Method: Evidence-based Design	2	9
F2020	ARTID 465	ID STUDIO V	4	15
	ARTID 551 A	Design Humanics: Sensory Design	3	15
S2020	DSN S 546	Interdisciplinary Design Studio: Design for Health (Co-teaching with Campbell and Dr. Wheeler)	6	16
	ARTID 552	Design Method: Evidence-based Design	2	7
F2019	ARTID 465	ID STUDIO V	4	16
	ARTID 551 A	Design Humanics: Sensory Design	3	11
S2019	DSN S 546	Interdisciplinary Design Studio: Wellness Design (Co-teaching with Campbell)	6	27
	ARTID 552	Design Method: Evidence-based Design	2	19
F2018	ARTID 465	ID STUDIO V	4	11
	ARTID 660	Research methods (Co-teaching with Alshihabi, Lee, Irish, & Cho)	3	10

Thesis Credit

Term	Course #	Course Title	Cr	Enrollment
S2023	ARTID 699B	Research: Exhibition	5	1
	HCI 699	Research: Thesis	3	1
	ARTID 699A	Research: Thesis	6/1	2
F2022	ARTID 699B	Research: Exhibition	1	1
	HCI 699	Research: Thesis	6	1

S2022	ARTID 699A	Research: Thesis	6	1
S2021	ARTID 699A	Research: Thesis	6	1
	ARTID 599	Creative Component	4	1
S2020	ARTID 699A	Research: Thesis	2/1	2
	ARTID 699B	Research: Exhibition	2	1
F2019	ARTID 699A	Research: Thesis	4/6/6	3
	ARTID 699B	Research: Exhibition	2/4	2
S2019	ARTID 599	Creative Component	1	1
	ARTID 699A	Research: Thesis	3/3/3	3
F2018	ARTID 599	Creative Component	5	1

Undergraduate Advising

Undergraduate advising has been undertaken by an undergraduate advisor, but my advising includes career services, portfolio review, graduate program introduction, etc.

Graduate Advising - Major Professor (Ph.D)

2023 **Karo Ahmadi-Dehrashid**, Doctor of Philosophy, Human and Computer Interaction, Dissertation title: N/A

Graduate Advising - Major Professor (Master)

2023 Fall (Expected) **Angeline Neo**, Master of Science, HCI, Thesis Title: Using technology acceptance model to study the perception of Chinese immigrant older adults using remote patient monitoring,

2024 Spring (Expected) **Stephanie Nguyen**, Master of Fine Arts, Department of Interior Design, Thesis Title: Sensory design guidelines for the hotel industry in order to influence customer's satisfaction

2023 **Hanieh Baktash**, Dual degree of Master of Science, Department of Interior Design & HCI, Thesis Title: The role of immersive multi-sensory interior design environment in reducing students' Generalized Anxiety Disorder,

2023 **Silvia Adams***, Master of Fine Arts, Department of Interior Design, Thesis Title: Wayfinding design for older adults with dementia in a long-term care facility,

2022 **Margaret Parks***, Master of Arts, Department of Interior Design, Thesis Title: Using digital simulation to create empathy for low vision users in senior living design. <https://dr.lib.iastate.edu/entities/publication/7b3da5fc-52ff-47e2-acbf-a3a26dfd4262/full>

2021 **Malloy Eliza***, Master of Arts, Department of Interior Design, Thesis Title: Understanding Millennial's and Generation Z's wants and needs about social amenities in a multi-family housing community. <https://dr.lib.iastate.edu/server/api/core/bitstreams/9f0481b5-9203-4298-b0db-7168a122b3bf/content>

2020 **Holle Michoski***, Master of Arts, Department of Interior Design, Thesis Title: A study of acute care for the elderly on patient outcomes and unit design considerations. <https://dr.lib.iastate.edu/entities/publication/c46ff750-72f1-4a66-aa07-f3eb58e7c626>

Bree Howard*, Master of Fine Arts, Department of Interior Design,

Thesis Title: An exploration of the effect of multi-sensory experience on the doorway phenomenon. <https://www.proquest.com/docview/2421422758?pq-origsite=gscholar&fromopenview=true>

- 2019** **Laura Dammarell***, Master of Arts, Department of Interior Design, Creative component, Project title: Residential biophilia: Creating a nature-based home for better psychological health.
<https://dr.lib.iastate.edu/server/api/core/bitstreams/b2131a80-40b3-4a58-abf3-d0d3d920b480/content>

* Graduated at current rank

Graduate Advising - Committee Member (Masters)

- 2023 Fall** **Andrea Burbano**, Master of Arts, Department of Interior Design
(Expected)
- 2021** **Meng Wang***, Master of Science, Department of Human-Computer Interaction, Creative component Title: A smart home visualization tool
- Erendira Gonzalez***, Master of Arts, Department of Graphic Design, Creative component Title: Rebranding & pop-up shops: small businesses and brand experience
- Ye Jin Chang***, Master of Fine Arts, Department of Interior Design, Thesis Title: Creating the multisensory brand experience in coffee shops
- 2020** **Nan Hui***, Master of Fine Arts, Department of Graphic Design, Thesis Title: Study on the wechat app to improve user experience for Chinese older adults
- Taylor Johnson***, Master of Arts, Department of Interior Design, Thesis Title: Customizable and adaptable furniture: Designing for millennial lifestyles and environmental concerns
- Yue Yang***, Master of Fine Arts, Department of Graphic Design, Thesis Title: HUEMXN: An emotion-oriented perspective on developing empathy
- Allison Brown***, Master of Arts, Department of Interior Design, Thesis Title: Mortuaries and mindfulness: The study of incorporating meditation spaces into modern mortuaries

* Graduated at current rank

Graduate Advising - Committee Member (Ph.D.)

- 2023** **Guy-Serge Emmanuel**, Doctor of Philosophy, Human and Computer Interaction, Dissertation title: Exploring race and ethnicity in UX design practice, literature and graduate curriculum
- 2022- Present** **Carie Fisher**, Doctor of Philosophy, Human and Computer Interaction, Dissertation title: Digital Accessibility Survey of Information Technology (IT) Professionals
- Hongyi Bian**, Doctor of Philosophy, Human and Computer Interaction, Dissertation title: TBD (Smart home technologies, blockchain, and digital health)

Graduate Research Assistant Supervised

- 2019 Spring** **Holle Michoski**, Holle conducted a survey and interview with older adults in a retirement community to understand their perception of their home lighting system. Funding source: Bridging the Divide from the office of the vice president for research

Yejin Chang, Yejin conducted a lighting assessment by measuring lighting intensity and types in older adults' houses. Funding source: Bridging the Divide from the office of the vice president for research

2021 Spring **Hanieh Baktash**, Hanieh helped to create a home assessment tool for aging in place. Funding source: 2020 BNIM Regenerative Design Challenge Grant

2021 Summer **Margaret Parks**, Margaret helped to create a home assessment tool for aging in place. Funding source: 2020 BNIM Regenerative Design Challenge Grant

Undergraduate Research Assistant Supervised

2021 Fall - 2022 Spring **Laura Maschino** and **Kayley Tucheck**, Laura and Kayley helped to create a floor plan, diagrams, and renderings for the healthcare design book publication. Funding source: Publication Subvention Grant - Scholarly work: Space planning for Healthcare settings

Student Awards

2019 **Erendira Gonzalez**, **Steelcase design competition award**, placed in the top 10 of the 6th Annual Steelcase NEXT Student Design Competition. She was one of five honorable mentions awarded out of 900 entries from 70 university programs nationwide (*Supervised her works in a design studio in 2018 Fall semester*)

[ISU interior design projects win top 10 recognition in Steelcase NEXT Student Design Competition : Iowa State University College of Design \(iastate.edu\)](https://www.iastate.edu/college-of-design/news-events/2019/09/10/interior-design-projects-win-top-10-recognition-in-steelcase-next-student-design-competition)

Student Accomplishments

2021 **AIA-AAH STERIS Student Design Charrette Mentor**, Students: Keegan Holdrof (Architecture), Megan Adams (Landscape), Brandon Leeder (Architecture), Maggie Parks (Interior Design), Healthcare Design Conference, Cleveland, OH, October 21-26, 2021 (Role: Co-mentor with Campbell)

2020 **AIA-AAH STERIS Student Design Charrette Mentor**, Students: Matthew Bong (Architecture), Calise Gritters (Architecture), Lexis Ruroden (Interior Design), Emily Serchen (Landscape), Healthcare Design Virtual Conference, November 6-8, 2020 (Role: Co-mentor with Campbell)

2018 **AIA-STERIS Student Design Charrette Mentor**, Students: Mathew Townsley (Architecture), Babafemi Ade-Aina (Architecture), Haley Eckenrod (Interior Design), Taylor Danger (Landscape), Healthcare Design Conference, Phoenix, Arizona, November 9-11, 2018 (Role: Co-mentor with Campbell)

Curriculum Development

2023 Spring **ARTID 570X: Social Entrepreneurship in Aging (New class)**: Based on mission and vision of our university, I developed a new class focusing on social entrepreneurship in Aging. Students explored various issues of social, behavioral, and health and well-being in later life and created a design solution to address specific problems.

2022 Spring **ARTID 569A: Environmental Psychology for Design (New class):** This course was dedicated to understanding human-environment interactions at the different layers of psychology and human behaviors. Students examined the complex interaction and impact of the built environment on human emotion and behavior through the context of social, behavioral, cultural, and environmental variables.

2021 Fall **DSN S 501X: Introduction to Research Design:** This course was significantly redesigned. I developed new syllabus, course schedule, lectures, assignments, reading materials, project, and in-class activities

2019 Fall **ARTID 551A: Design humanics Sensory perception & ergonomic factors:** This course was significantly redesigned. I developed new lectures, assignments, reading materials, projects, and in-class activities. Especially, this class had a joint project of smart home design with students in Geron-technology class (COM 414+514) and gerontology in 2019 and 2020 Fall semester

2019 Spring **ARTID 552: Evidence-based Design (New Class):** I designed this new course by developing new course materials, syllabus, weekly schedule, assignments, grading rubrics, lectures, in-class activities and projects. This course introduced Evidence-based Design which is a process for the conscientious, explicit, and judicious use of current best evidence from research and practice in making critical decisions. This class explored how to find, evaluate and synthesize evidence and translate it for design application in a physical environment.

2019 Spring **DSN S 3: Wellness Studio:** Campbell and I have significantly redesigned course materials, syllabus, lectures, field trip plan, and design projects. The studio focused on various healthcare facilities. With human-centered design and evidence-based design approach, Students designed various wellness and therapeutic environment considering social awareness with an emphasis on patients, family and healthcare staff in their physical environment.

Grants for Teaching (Studio development)

2020-2021 **ISU & Shive-Hattery Healthcare Design Studio: DSN S 546 (Interdisciplinary studio),** Co-PI with Campbell (\$20,000)

Professional Development

2022-2023 **Research Collaboration Catalysts**

2022 Fall **Active Learning Institute (ALI)**

2020 Summer **CELT 2020 Summer Course Design Institute (CDI)**

IV. RESEARCH/CREATIVE ACTIVITIES

Grants for Research

External Grants for Research

- 2020 **American Occupational Therapy Foundation** - Health Services Research (\$50,000)
Title: Predicting Individuals' Functional Difficulties at Home Using Statistical Machine Learning (P.I: Mi Jung Lee; Collaborator; Romero, Castaneda, Bliznyuk, and Hong)
Role: Collaborator (No fund distributed to ISU)
- **Purpose:** Develop a web-based/mobile friendly tool that identifies older adults in urgent need of home assessment and modification.
 - **Impact:** The results of this study serve as groundwork for larger studies to pre-screen older adults at risk of experiencing unwanted outcomes at home. Such a tool will allow occupational therapists to design home assessment and modification practices tailored to older adults' different disease types and clinical conditions. We believe that this line of research will support evidence-based guidelines of home assessment and modification services through promoting data-driven decision-making practices in occupational therapy.
 - **Delivery:** Two journal publication ([one published](#), one under review) and website: https://mjlee.shinyapps.io/Shiny_Project_MJ/

External Grants and Awards for Research [Not funded]

- 2019-2022 **National Science Foundation** (NSF) - Engineering Research Centers (ERC) research grant
Title: Smart home technology for successful aging in place (P.Is: Balaji Narasimhan & Jennifer Margrett)
Role: Collaborator. As a multidisciplinary research team (more than 65 researchers), I have participated in T2a group for a designing a smart home.

Internal Grants and Awards for Research

- 2023 **ISU Foreign Travel Grant**
Invited lectures and research collaboration meeting, Seoul, South Korea (\$1,500)
- 2022 **CEAH - Summer Research Support:** Meaning of Aging in Place to Older Korean Immigrants (\$6,000)
- **Purpose:** The main purpose of this research is to understand the challenges and barriers of aging in place of Korean older immigrants and discuss their needs for successful aging in place.
 - **Impact:** The impact of this research is significant as it addresses the challenges and barriers of aging in place that are specific to older immigrants, particularly Korean immigrants. By understanding their perceptions and experiences, this research can shed light on how to better support older immigrants in pursuing successful aging in place.
 - **Delivery:** Conference presentation & journal submission (2023 Fall)
- 2021 **Publication Subvention Grant - Scholarly work:** Space planning for Healthcare settings (\$9,500)
- **Purpose:** This grant aimed to publish a textbook for scholarly work. Through this grant, I completed the healthcare design book titled "Space planning for healthcare settings."

- **Impact:** This book on interior space design for healthcare facilities is targeted at third- or fourth-year undergraduate students enrolled in a CIDA accredited Interior Design program, a NAAB accredited Architectural program, or a NASAD accredited Design program. Additionally, it may be used in graduate programs in Design, Interior Design, Architecture, or Design Studies, or by lifelong learners who have an interest in clinical healthcare environment design.
- **Delivery:** This book will be published in 2024

2020

2020 BNIM Regenerative Design Challenge Grant: A Best Practice Manual for Aging in Place: Revitalizing Small Communities for Aging Population in Iowa (\$9,500)

Role: Principal investigator

Co-investigators: Sungduck Lee, Biswa Das, and Cameron Campbell

- **Purpose:** The proposed research aimed to investigate further of the challenges associated with making home modifications, especially in a small town context in Iowa. The objectives of this research are: 1) to collect and analyze data using GIS that will help categorize existing housing types at the community scale; 2) to determine specific home modification strategies based on individual's needs; and 3) to make pragmatic policy recommendations that could be used to address the challenges related to modification and allow for successful aging in place.
- **Impact:** This research contributed to enhancing the understanding of the complexities and unique challenges of aging in place in small-town Iowa. By addressing these challenges, older adults and those with disabilities will be able to remain in their homes longer, leading to improved quality of life, increased independence, and reduced healthcare costs.
- **Delivery:** Conference presentation (HERA 2022) and invited extension/outreach publications

2019

Bridging the Divide from the office of the vice president for research: Saving Older Adults Living in Darkness: Ambient Intelligence Technology of Lighting System (\$24,916)

Role: Principal investigator

Co-investigators: Carl Chang and Jennifer Margrett

- **Purpose:** As an interdisciplinary research project, the purpose of this research aims to create new smart home lighting solutions by developing integrated ambient intelligence technology providing a proper level of illumination in older adult's homes.
- **Impact:** This research project create a broader impact on smart home design for older adults and contributed to the advancement of knowledge and development of new technologies and new collaborations with computer science and gerontology.
- **Delivery:** Conference presentation (EDRA 51 and IDEC 2021) and [peer-reviewed publication](#) (HERD)

Service-Related to Research

Professional Organization Service

- 2022-present **Reviewer board member**, International Journal of Environmental Research and Public Health
- 2019-present **Ad-hoc review board member**, Journal of Interior Design
- 2019-present **Member**, Iowa Fall Prevention Coalition (Iowa Department of Public Health)

Invited Journal Article Reviewer

- 2023.03 Journal of Librarianship & Information Science
- 2023.02 Journal of Interior Design
- 2023.01 Journal of Interior Design
- 2022.11 Journal of Environmental Research and Public Health
- 2022.10 Ageing Research Review
- 2022.03 Journal of Environmental Research and Public Health
- 2022.02 Health Environments Research & Design Journal
- 2021.09 Housing and Society
- 2021.05 Journal of Environmental Psychology
- 2021.03 Gerontology and Geriatric Medicine
- 2021.01 Environment & Behavior
- 2020.11 Gerontology and Geriatric Medicine
- 2020.06 Health Environments Research & Design Journal
- 2020.02 Frontiers in Psychology - Environmental Psychology
- 2019.03 Housing and Society
- 2019.01 Environment and Behavior
- 2018.11 Health Environments Research & Design Journal

Invited Award Reviewer

- 2022 New Investigator Award, Center for Healthcare Design

Invited Abstract Reviewer

- 2023 Interior Design Educator Council (IDEC) annual conference, Manhattan NY
- 2022 Interior Design Educator Council (IDEC) annual conference, Vancouver, Canada
Environmental Design Research Association (EDRA)53 conference, Greenville, SC
- 2021 Interior Design Educator Council (IDEC) annual conference; virtual
Housing Educator Research Association Conference, virtual
Environmental Design Research Association (EDRA)52 conference, Detroit, MI;
Virtual
- 2020 Interior Design Educator Council (IDEC) annual conference; virtual
Housing Educator Research Association Conference; virtual
- 2019 Interior Design Educator Council (IDEC) annual conference, Charlotte NC
Housing Educator Research Association Conference, Austin, TX
Environmental Design Research Association (EDRA) 51 conference, Tempe. AZ

Recognitions for Research / Creative Activities

- 2023 **Nominated, Housing Impact Award**, Housing Educator & Research Association
(Will be announced in October 2023)
- 2022 **Faculty Research Award**, College of Design, Iowa State University
- 2020 **2020 HERA Kenneth Tremblay Early Career Award**, Housing Educator & Research Association

V. SERVICE / OUTREACH

Extension / Outreach Publications [Editor Reviewed]

- 2021 **Kim,D.**, Lee, S., Das, B., Campbell, C. Aging in Place: Revitalizing small communities for aging population in Iowa, *The Iowa County*, 50(2), 14-15
- The main goal of this publication is to introduce our research project sponsored by BNIM grant project. Given that most readers of this journal are extension officers and community staff, this manuscript provided a critical framework for revitalizing small communities for aging population in Iowa.

Internal Grants for Extension

- 2022 **Fieldstead & Company Endowment for Community Enhancement Fund:** Revitalizing Small Communities for Aging Population in Iowa: Making Home Modifications More Accessible (\$5,000)
Role: Principal investigator
Co-investigators: Biswa Das, Nicole Peterson, and Jae Hwa Lee
- **Purpose:** The purpose of this project is to conduct a home modification pilot project for older adults living in a rural community in Iowa.
 - **Impact:** This project demonstrated a model for small municipal and county governments to work with experts and volunteers to help older households modify their homes to age in place. It allowed the elderly to stay in their social network, promoting social engagement and sustainability. It also helped communities retain older individuals who might have moved due to unsuitable living spaces. Finally, it provided students with practical experience in understanding aging in place and designing outreach to the community.
 - **Delivery:** Conference presentation (HERA 2022) and Journal publication planning (2023 Fall)

University Service

- 2022- **Member**, Advisory Council of The Center for Excellence in the Arts and Humanities (appointed)
- 2022- **Member**, Rural Vitality Council (appointed)

College Service

- 2022- **Member**, Innovation and Entrepreneurship Scholars (2-year term)
- 2021- **Member**, Research, Extension & Outreach Council
- 2018- **Member**, International Programs Committee
- 2020-2021 **Member**, Diversity, Equity, and Inclusion
- 2020-2021 **Member**, Operations Committee

- 2018-2019 **Member**, Ad-hoc committee for college-wide research courses
- 2018-2019 **Member**, Ad-hoc committee for interdisciplinary courses

Department Service

- 2022-2023 **Member**, New Faculty Search Committee
- 2018 - **Member**, Graduate Program Committee
- 2018-2019 **Member**, New Faculty Search Committee
- 2019 **Chair**, Interior Design Governance Documentation Committee