

# Curriculum Vitae

---

## Byungsoo Kim, Ph.D.

Assistant Professor of Industrial Design, College of Design, North Carolina State University  
[bkim18@ncsu.edu](mailto:bkim18@ncsu.edu)

## EDUCATION

---

2017. 8 – 2020. 6      North Carolina State University, Raleigh, NC  
Doctor of Philosophy in Design (GPA: 4.0/4.0)
2014. 8 – 2016. 12      North Carolina State University, Raleigh, NC  
Master's Degree in Industrial Design (GPA: 4.0/4.0)
2005. 3 – 2012. 8      Hong-ik University, Sejong, South Korea  
Bachelor's Degree in Product Design (GPA: 3.83/4.5)

## ACADEMIC APPOINTMENTS

---

- 2024.8 – Present      Assistant Professor  
Department of Industrial Design  
North Carolina State University  
Raleigh, NC, USA
- 2020.8 – 2024.5      Assistant Professor  
Department of Interior Architecture and Industrial Design  
Kansas State University  
Manhattan, KS, USA

## PROFESSIONAL APPOINTMENTS

---

- 2021.2 – 2021.3      Design Researcher  
Conifer Research LLC  
Chicago, IL, USA
- 2017.5 – 2018.7      Design Consultant  
Raleigh, NC, USA
- 2017.4 – 2017.8      Research Associate  
Research in Ergonomics and Design Lab, North Carolina State University  
Raleigh, NC, USA
- 2016.5 – 2016.8      Creative Design Intern  
**General Motors**  
Detroit, MI, USA
- 2015.5 – 2015.8      Industrial Design Intern  
JLG (under **Oshkosh Corporation**)  
Hagerstown, MD, USA
- 2011.12 – 2014.7      Designer/Researcher  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

## TEACHING EXPERIENCE

---

### North Carolina State University, Assistant Professor

2024 Fall ID 531 Product Visualization 1  
ID 500 Advanced Industrial Design Studio

### Kansas State University, Assistant Professor

2024 Spring INDD 811 Design Research (**funded by Sloan**)  
INDD 822 Advanced Industrial Design Studio

2023 Fall INDD 644 Internship  
INDD 645 Internship Report  
IAID 290 Design and Material Culture  
INDD 325 Human Factors and Industrial Design  
IAID 430 Visual Communication 1

2023 Summer INDD 664 Internship  
INDD 665 Internship Report

2023 Spring INDD 811 Design Research  
INDD 822 Advanced Industrial Design Studio

2022 Fall INDD 644 Internship  
INDD 645 Internship Report  
INDD 606 Design Studio V  
INDD 325 Human Factors and Industrial Design  
IAID 430 Visual Communication 1

2022 Summer INDD 664 Internship  
INDD 665 Internship Report

2022 Spring INDD 811 Design Research  
IARC 822 Advanced Product Design Studio

2021 Fall INDD 644 Internship  
INDD 645 Internship Report  
INDD 606 Design Studio V  
INDD 325 Human Factors and Industrial Design  
IAID 430 Visual Communication 1

2021 Spring INDD 500 Materials and Manufacturing Processes  
ENVD 202 Design Studio

2020 Fall INDD 325 Human Factors and Industrial Design  
IAID 430 Visual Communication 1

### North Carolina State University, Co-Instructor

2019 Spring ID 300 Design Studio

### PhD Student Committees

Student Name	Degree, Year	School	Title	Role
Se-Hoon Ko	PhD in Design, Fall, 2024 (expected)	Seoul National University	Study on the Application of Complex System Mechanism for Emergent Findings in the Industrial Design Sketching Process	External Committee Member
Young-Eun Kim	PhD in Design, Fall, 2023	Seoul National	Machine Learning Application in User Experience Design Methods	External Committee

Young-Jun Byun	PhD in Design, Fall, 2022	University of Seoul National University	U.I Design Proposal for Stable Control from Autonomous to Non-Autonomous Driving Mode Conversion - the Conversion Method for Non Driving Related Tasks with High Driver Dispersion in Autonomous Driving Mode	Member External Committee Member
Halil Tetik	PhD in Industrial Engineering, Spring 2022	Kansas State University	3D Freeze Printing of Functional Aerogels	Outside chair
Deok-Chan Lee	PhD in Design, Fall, 2021	Seoul National University	Reinterpretation and Design of Autonomous Driving Interior Space Design Principles Applying Rhizome theory	External Committee Member

### Master Student Committees

Student Name	Degree, Year	School	Title	Role
Alec Radford	Masters in Industrial Design, Spring, 2024	Kansas State University	UAV: Search and Rescue	Committee Chair
Brayden Kern	Masters in Industrial Design, Spring, 2024	Kansas State University	Mars EPF: Artemis Mission Design	Committee Chair
Eden Shaw	Masters in Industrial Design, Spring, 2024	Kansas State University	Bouq: Where Beauty Blooms Sustainably	Committee Chair
Gavin Garrett	Masters in Industrial Design, Spring, 2024	Kansas State University	AquaZen: Wearable for Divers to Mitigate Panic	Committee Chair
Isaiah Tarwater	Masters in Industrial Design, Spring, 2024	Kansas State University	Alta: Gear for the Modern Climber	Committee Chair
Jessica Phillips	Masters in Industrial Design, Spring, 2024	Kansas State University	Evita: Wearable Vital Monitoring Solution for Chemotherapy patients	Committee Chair
Jordan Young	Masters in Industrial Design, Spring, 2024	Kansas State University	Catch Latch: Educational Toy Kit	Committee Chair
Lizeth Sustaita-Delgado	Masters in Industrial Design, Spring, 2024	Kansas State University	Kaboohbles: Toy Design for Kids with Visual Impairment	Committee Chair
Tyler Hilk	Masters in Industrial Design, Spring, 2024	Kansas State University	ToneTitam: Hearing Protection Design	Committee Chair
Dustin McDermott	Masters in Industrial Design, Spring, 2023	Kansas State University	Serene: The AI Therapist-Music for Your Mind	Committee Chair
Kayla Roles	Masters in Industrial Design, Spring, 2023	Kansas State University	DASH: Promoting Mental Health for Creative Individuals	Committee Chair
Levi Hansen	Masters in Industrial Design, Spring, 2023	Kansas State University	SteelHead: Designing a Portable and Versatile Watercraft	Committee Chair
Matthew Henninger	Masters in Interior Architecture and Product Design,	Kansas State University	iCar: Interior HMI Design Autonomous Vehicle Interior Experience	Committee Chair

Jake Lathrum	Spring, 2022 Masters in Interior Architecture and Product Design, Spring, 2022	Kansas State University	Mo-Vision Electronic Vision Enhancing Glasses for the Visually Impaired	Committee Chair
Leah Steinacker	Masters in Interior Architecture and Product Design, Spring, 2022	Kansas State University	Toy Design for Pediatric Hospital Environments: Redefining the Approach for Pre-operative Education of Pediatric Patients	Committee Chair

## TEACHING: AWARDS & RECOGNITIONS

---

2023  
McElwee Faculty Teaching Award, Kansas State University  
*Nominated*  
Given to a faculty member for being an outstanding teacher as designated by the dean of the college based upon the recommendations of both students and faculty.

## TEACHING: NOTEWORTHY ACCOMPLISHMENTS OF GRADUATE STUDENTS

---

2023  
Architectural Research Centers Consortium King Medal  
Medalist  
Each year, one outstanding graduating student from the Kansas State University College of Architecture, Planning & Design receives the ARCC King Medal.  
Student Name: Kayla Roles

2021  
Design Competition, Janus et Cie - Urban Playground, JENUS & Populous  
Finalist  
Hosted by JANUS et Cie, an international furniture manufacturer, and Populous, an architectural design firm. One of my student's independent study works was recognized as one of the finalists. As finalists, three student designers and the Industrial Design program each received \$1,500.  
Student Name: Zachary Spearman

## DESIGN WORKS: AWARDS & RECOGNITIONS

---

2015  
Car Design News and GM interactive Design Competition, General Motors  
*Winner*  
Annual car design competition for student car designers in the USA and Canada.  
4 winners from 1,292 submissions received a paid internship at GM.  
Work Title: [GMC ANTS: Drone Furniture Delivery Rental Service](#)  
Futuristic Drone Furniture Delivery Rental Service: seamless delivery of furniture of various sizes through the innovative use of interlocking "ants."

2014  
Asian Smart Living International School, Taiwan's Ministry of Education  
*Winner of the Best Practice & the Most Popular Award*  
Annual design workshop sponsored by the Ministry of Education, Taiwan.  
Selected graduate students from different nations (Japan, South Korea, Singapore, and Netherlands). Winners (1 from 8 teams for Best Practice & the Most Popular Award) received the certificates of award.  
Work Title: [Organic Swirl](#)  
Sustainable Agriculture: Crafting exquisite experiences through community-driven organic farming service design.

- 2013 iF Universal Design Award, iF International Forum Design  
*Winner & Consumer Favorite*  
an annual award since 1953 (more than 2,000 product entries from around 37 nations), Germany. iF Universal Design Award category started in 2012. 25 submissions received certificates of the award and were invited to the award ceremony.  
Work Title: [Stoop](#)  
Electrifying Mobility: Empowering Electric Vehicles and Wheelchairs with the Stoop Electric Charger.
- 2012 Reddot Concept Design Award, Design Zentrum Nordrhein Westfalen  
*Winner*  
Annual design award (around 5,000 entries), Germany. Around 1,000 Winners were recognized in the red dot design yearbook, exhibited in the red dot design museum and red dot on tour.  
Work Title: [Dri:m](#)  
Lunch box delivery service & a set of product designs for the elderly living alone, empowering volunteers and recipients while fostering compassion.
- 2012 Public Design Awards, Korea Craft & Design Foundation  
*Grand Prize*  
'ECO Shelter' (Idea-Product/Space Category) won in a public online review vote.
- Design to Business Fair, Korean Intellectual Property Office  
*Bronze Prize*  
Annual design award supported by Korean Intellectual Property Office (over 5,000 submissions). 53 design results received prize money, certification, and support of design patent.  
Work Title: [Jelly Shampoo](#)  
Harmony in Sustainability: an eco-friendly and user-centric shampoo packaging design.
- Design for Social, Utilità Manifesta  
*Finalist*  
Annual design award (more than 400 design project entries from all around the world), Italy. 10 industrial design projects received recognition and were invited to an exhibition.  
Work Title: [Stoop](#)
- Spark Concept Design Award  
*Finalist*  
Annual design award (around 400 submissions).  
Around 200 design projects received recognition.  
Work Title: [Stoop](#)
- 2011 Social Enterprise Excellent Item Contest, Gyeonggi Government  
*Encouragement Prize*  
Annual design award by the governor, Gyeonggi-do, South Korea.  
Work Title: [Dri:m](#)
- Children Playground Design Award, Gyeonggi Government  
*Select Prize*  
Annual design award, prize from the governor of Gyeonggi-do.  
Work Title: [Rolling Rolling](#)  
Inclusivity in Motion: Multisensory inclusive seesaw, enriching play experiences for children with visual impairment.
- Design for Social, Utilità Manifesta  
*Finalist*  
Annual design award (more than 400 design project entries from all around the world), Italy. 20 industrial design projects received recognition and were invited to an exhibition.  
Work Title: [Dri:m](#)

## DESIGN WORKS: EXHIBITIONS

---

- 2023 406 1/2 Poyntz  
Manhattan, Kansas, USA  
Work Title: [Personalized Everyday Objects: Ice-cream Scoop](#)
- 2023 Seaton Hall, Kansas State University Open House  
Manhattan, Kansas, USA  
Work Title: [Personalized Everyday Objects: Ice-cream Disher](#)
- 2012 Reddot Design Museum  
Singapore  
Work Title: [Drim](#)
- 2012 Utilita Manifesta Exhibition at Art Verona 2012  
Milan, Italy  
Work Title: [Drim](#)
- 2012 Souvenir Design Exhibition  
Jeju-do, South Korea  
Work Title: Teuri

## DESIGN WORKS: PATENTS

---

- 2019 Hanes Breast Motion Simulator Combine (NCSU File 19-19242), USA  
Submitted (fees for the international and US filings were paid for by Hanes).
- 2012 Shampoo Container Design (Design Registration Number (등록번호): 3006733500000, Korean Intellectual Property Office), South Korea  
Designing an easy-to-use and eco-friendly shampoo Container.

## RESEARCH: PROJECTS

---

### Principal Investigator

- 2020.8 – present ‘Technology-Driven Design Process in Industrial Design’  
Kansas State University  
Manhattan, KS, USA
- 2022.8 – 2023.5 ‘Enhancing Industrial Design Education Through Studio-Lecture Collaboration’  
Kansas State University  
Manhattan, KS, USA
- 2020.12 – 2021.12 ‘The HFE Data Visualization and Interdisciplinary: The Impact of Different HFE Data Visualizations on Industrial Design Process’  
Kansas State University  
Manhattan, KS, USA

### Co-Principal Investigator

- 2021.8 – present ‘Dynamics of Disciplines: Understanding Task-level Experiences in Interdisciplinary Collaborative Design Studio Education’  
Kansas State University  
Manhattan, KS, USA
- 2020.6 – 2022.12 ‘Interdisciplinary Research Team Building’  
Kansas State University

Manhattan, KS, USA

**Researcher**

2021.2 – 2021.3

Design Researcher  
Healthcare Service Design, funding source confidential  
Conifer Research LLC  
Chicago, IL, USA

2013.7 – 2014.6

Researcher  
'Automatic Discharge Processing System Design for Patients Who Lives in Bed'  
funded by **Korea Evaluation Institute of Industrial Technology**  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

2013.6 – 2014.1

Researcher  
'Public Facilities Standard Design' funded by Pyeongtaek City  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

2013.1 – 2013.7

Researcher  
'Han River Fishing Village Building Project' funded by the Korea Rural  
Community Corporation  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

2012.6 – 2012.11

Researcher  
'Research for National Park Facilities Universal Design Guideline' funded by  
**Korea National Park Service**  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

2011.11 – 2012.6

Researcher  
'[Public Signage Design Guideline](#)' funded by the Gyeonggi Provincial  
Government  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

2011.7 – 2012.1

Researcher  
'[Light Pollution Control Plan and Nightscape Design Guideline](#)' funded by the  
**Gyeonggi Provincial Government**  
Life Environmental Research and Design Laboratory  
Seoul, South Korea

**Research Assistant**

2017.1 – 2020.5

Graduate Research Assistant  
'Design Thinking: Training, Support, and Investigations for LAS/IC' funded by  
LAS (under **National Security Agency**)  
Research in Ergonomics and Design Lab, North Carolina State University  
Raleigh, NC, USA

2018.8 – 2019.7

Graduate Research Assistant  
'Collaborative Report Generation Project' from the Laboratory for Analytic  
Science' funded by LAS (under **National Security Agency**)  
Research in Ergonomics and Design Lab, North Carolina State University  
Raleigh, NC, USA

2014.3 – 2014.4

Graduate Research Assistant  
'Home Chat' from **LG**

## RESEARCH: AWARDS & RECOGNITIONS

---

- 2019 HFES Student Paper Award, Human Factors and Ergonomics Society  
*Winner*  
Selected from 12 submitted papers in Product Design Technical Group. Winners received a certificate of the award and prize money.  
Work Title: [A Wearable Intervention for Laptop Users](#)  
The paper aims to investigate the potential impact of a wearable glasses-type intervention regarding the posture and productivity of laptop users in a standard working environment.
- 2016 NCSU Graduate Student Research Symposium  
*3<sup>rd</sup> Place*  
Annual research symposium for NCSU graduate students across all majors. Over 200 presenters (only selected graduate students from each major could present their work). Winners (24 winners) received the certificate of the award and prize money.  
Work Title: [Interaction Design Guidelines for Drivers](#)  
The purpose of this study is to understand the difficulty of controlling a car's functions while driving an unfamiliar car and to redesign controls to improve safety and usability.
- NCSU Chapter Graduate Research Award, Sigma Xi  
*Recognition of Superior Achievements in Scientific Research*  
Work Title: [Interaction Design Guidelines for Drivers](#)
- Korean American Scientists and Engineers Association Poster Competition (NC Chapter)  
*1st Place*  
Annual conference for Korean-American researchers in North Carolina (NCSU, UNC, and Duke). Winners (3 winners from 8 presenters) received prize money.  
Work Title: [Interaction Design Guidelines for Drivers](#)

## RESEARCH: FUNDINGS

---

### Funded

- 2023 Academic Program Strategic Investment Funds  
Kansas State University  
Amount: \$24,130  
Contribution: 33.3%
- 2022 Faculty Development Award  
Kansas State University  
Amount: \$2,373  
Contribution: 100%
- 2021 University Small Research Grant  
Kansas State University  
Amount: \$2,103  
Contribution: 100%

### Not Funded

- 2023 GRIPex: AI in the Disciplines  
Kansas State University  
Amount: \$70,900  
Contribution: 60%



2024 Vilcek Prizes for Creative Promise in Design  
Vilcek Foundation  
Amount: \$50,000  
Contribution: 100%

2021 University Small Research Grant  
Kansas State University  
Amount: \$2,970  
Contribution: 100%

## RESEARCH: PUBLICATIONS

---

### Journal Articles, In Print:

- 2023 Liu, H., **Kim, B.**, & Joines, S. (2023). Collaborative Writing in the Intelligence Community: Investigation of Analytic Collaborative Reporting Processes and Writing Strategies. *International Journal of e-Collaboration*.
- 2023 **Kim, B.**, Joines, S., & Feng, J. (2023). Technology-Driven Design Process: Teaching and Mentoring Technology-Driven Design Process in Industrial Design Education. *International Journal of Technology and Design Education*, 1-35.
- 2019 Park, J., **Kim, B.**, Lee, B., Traci, R., & Hands, D. (2019). Interdisciplinarity of Ph.D. students across the Atlantic: A Case of Interdisciplinary Research Team Building. *The Design Journal*, 22, 1453-1466.
- 2018 **Kim, B.**, Joines, S., Feng, J., & Flinchum, R. (2018). Usability Study to Improve Interaction Design for Drivers in Car-Sharing Systems. *Journal of User Experience*, 13(4), 220-247.

### Journal Articles, Submitted:

- 2024 **Kim, B.** (Year). Authorship in AI-Enhanced Design: Insights from Design Students' Perception of Authorship in AI-Assisted Design Processes. In Preparation for *The Design Journal*.

### Journal Articles, In Preparation:

- Kim, B.**, Panda, P., & Joines, S. (Year). The HFE Data Visualization and Interdisciplinary: The Impact of Different HFE Data Visualization on Industrial Design Process. In Preparation for *International Journal of Technology and Design Education*.
- Kim, B.**, Joines, S., & Liu, T. (Year). The Role of Design in the 4th Industrial Revolution: Case Studies of Designer's Role in Technology-Driven Organizations. In preparation for *The Design Journal*.
- Kim, B.** (Year). Personalization of Everyday Object: Considering Ergonomics and Aesthetics. In Preparation for the *International Journal of Art and Design Education*.
- Kim, B.**, & Park, J. (Year). Establishing Online Research Team Building Workshop Framework. In preparation for *The Design Journal*.
- Kim, B.**, Joines, S., & Ham, D. (Year). Design Process, Method and Tool Evaluation: Technology to Product Design Process (TPDP) For Industrial Design Education. In preparation for the *International Journal of Art and Design Education*.

### Conference Papers and Proceedings:

- 2023 **Kim, B.**, & Gregorio, H. (August, 2023). Enhancing Industrial Design Education Through Studio-Lecture Collaboration [Paper presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Lin, C., & **Kim, B.** (August, 2023). Study of Ai-Driven Furniture Design Process [Paper presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Gregorio, H., & **Kim, B.** (August, 2023). Design Entrepreneurship: Identifying the Essential Skills for Industrial Design Students to Become Entrepreneurs. In *Industrial Designers Society of America Education Paper*. [double blind peer-reviewed].
- Doffing, B., Garrett, G., & **Kim, B.** (September, 2023). Integrating Smart Textiles in Automotive: Application of Upholstery in Vehicle Interiors for Their Development into the Third Living/Workspace. In *Industrial Designers Society of America Education Paper*. [double blind peer-reviewed].
- Hilk, T., Sencenbaugh, A., & **Kim, B.** (August, 2023). Reduction of Food Waste in Grocery Stores in Rural America: Reducing Food Waste at Retail Stores—an Explorative Study [Paper presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Sustaita-Delgado, L., & **Kim, B.** (August, 2023). Early Childhood Development Toys for Visually Impaired: Guidelines for Designing an Enjoyable Toy for Visually Impaired Children with the Goal of Aiding in Various Areas of their Early Childhood Development [Paper presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Tarwater, I., & **Kim, B.** (August, 2023). Sustainable Materials in Outdoor Gear Design: An Investigation of the Future of Alternative Textiles in Outdoor Gear Design [Paper presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Kim, B.**, & Lewis, K. (May, 2023). Creating a Transformative Experience in the First Year of Study for Beginning Design Studio Online [Paper presentation]. *AMPS: Transformative Teaching*. [double blind peer reviewed].
- 2022 McDermott, D., & **Kim, B.** (September, 2022). Artificial Intelligence, Music Therapy, and the Fight against Mental Illness [Paper presentation]. *Industrial Designers Society of America Education Symposium*, Seattle, USA. [double blind peer-reviewed].
- Roles, K., & **Kim, B.** (September, 2022). Creative Burnout: Suffocating the Future of Design [Paper presentation]. *Industrial Designers Society of America Education Symposium*, Seattle, USA. [double blind peer-reviewed].
- Kim, B.**, & Gregorio, H. (June, 2022). An analysis of master's in industrial design theses at U.S. land-grant universities: A systematic literature review [Paper presentation]. *Design Research Society*, Bilbao, Spain. [double blind peer-reviewed].
- Lewis, K., & **Kim, B.** (April, 2022). First-Year Design Students' Readiness to be in Different Disciplines: An Investigation of the Skill Readiness and Preparedness for the Coming Years of Study [Paper presentation]. *37th National Conference on the Beginning Design Student*, Muncie, Indiana. [double blind peer-reviewed].
- Park, J., Yoon, Y., & **Kim, B.** (March, 2022). A Systematic Literature Review of Ph.D. in Design Dissertations: A Case Study at North Carolina State University [Paper presentation]. *ARCC-EAAE 2022 International Conference*. [double blind peer-reviewed].
- 2021 **Kim, B.**, & Panda, P. (2021). Data Visualizations for Interdisciplinary Communication in HFE. In *Advances in Industrial Design: Proceedings of the AHFE 2021 Virtual Conferences on Design for Inclusion, Affective and Pleasurable Design, Interdisciplinary Practice in Industrial Design, Kansei Engineering, and Human Factors for Apparel and Textile Engineering, July 25-29, 2021, USA* (pp. 3-10). Springer International Publishing.

Panda, P., **Kim, B.**, Behnam-Asl, S., & Sener, E. (2021, December). Immersive Analytics: A User-Centered Perspective. In *Proceedings of the 27th ACM Symposium on Virtual Reality Software and Technology* (pp. 1-3).

2019 **Kim, B.**, & Joines, S. (2019). The role of design in technology driven ergonomics product development. In *Advances in Ergonomics in Design: Proceedings of the AHFE 2019 International Conference on Ergonomics in Design, July 24-28, 2019, Washington DC, USA 10* (pp. 3-14). Springer International Publishing.

**Kim, B.**, Liu, H., & Joines, S. (2019, November). A wearable intervention for laptop users. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 63, No. 1, pp. 1188-1193). Sage CA: Los Angeles, CA: SAGE Publications.

2015 **Kim, B.**, Liu, H., & Joines, S. (August, 2015). Designing for Empathy: Research Expanding Aging Experience Suit for Educational Purposes [Paper presentation]. *Industrial Designers Society of America Education Symposium*, Seattle, USA. [double blind peer-reviewed].

#### **Conference Papers and Proceedings, Accepted:**

2023 Kirchmer, K., & **Kim, B.** (June, 2023). Dynamics of Disciplines: Understanding Task-level Experiences in Interdisciplinary Collaborative Design Studio Education [Paper presentation]. 2023 ACSA/EAAE Teachers Conference, Reykjavík, Iceland. [double blind peer-reviewed].

#### **Conference Papers and Proceedings, Submitted**

2024 Kirchmer, K., & **Kim, B.** (June, 2024). From Learner to Teacher: The Role of Interdisciplinary Collaborative Education in Mitigating Bias in Architecture & Design [Paper presentation]. 2024 AMPS Learning, Life, Work, San Francisco, USA.

#### **Magazine, In Print:**

2022 Roles, K., & **Kim, B.** (December, 2022). Creative Burnout: Suffocating the Future of Design. *Innovation Magazine, (Winter 2022)*, 34-39.

#### **Book Chapters, In Print:**

2023 **Kim, B.** (2023). Chapter 17: Changing interfaces in and around the contemporary house. In K. Guler (Ed.), *Transforming Issues in Housing Design* (1st ed., pp. 233-243). Wiley. ISBN-10: 1119857163. Publication date: December 12, 2023.

#### **Trade Publications, In Print:**

2018 **Kim, B.**, & Joines, S. (2018). Universal design for unfamiliar environments. *Content of Design for All Institute of India, January 2018 Vol-13 No-1*, 48.

#### **Conference/Symposium Presentations, Abstract Referred:**

2020 Yi, C., Park, J., & **Kim, B.** (June, 2020). Interdisciplinary research team workshop: bottom-up approach [Paper presentation]. *12th Annual International Science of Team Science Conference*, Durham, USA. [double blind peer-reviewed].

Park, J., **Kim, B.**, Yi, C., & Joines, S. (April, 2020). Evaluating a Workshop for Interdisciplinarity in Environmental Design Research [Paper presentation]. *Proceedings of the 51st Environmental Design Research Association (EDRA) Conference*, Tempe, USA. [double blind peer-reviewed].

**Kim, B.**, Park, J., Yi, C., & Joines, S. (February, 2020). Workshop of Interdisciplinary Research Team Building [Paper presentation]. 2020 KSEA-NC Interdisciplinary Research Conference, Raleigh, USA.

2018 **Kim, B.**, Joines, S., Feng, J., & Flinchum, R. (September, 2018). Car Interaction Design for Car-Sharing Systems [Paper presentation]. 10th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications, Toronto, Canada. [double blind peer-reviewed].

**Kim, B.**, & Joines, S. (March, 2018). The Use of a Wearable Intervention for Laptop Users [Paper presentation]. 12th International Conference on Design Principles & Practices, Barcelona, Spain. [double blind peer-reviewed].

peer-reviewed].

**Poster Presentation, Abstract Referred:**

- 2023 **Kim, B.**, & Gregorio, H. (August, 2023). Enhancing Industrial Design Education Through Studio-Lecture Collaboration [Poster presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Tarwater, I., & **Kim, B.** (August, 2023). Sustainable Materials in Outdoor Gear Design: An Investigation of the Future of Alternative Textiles in Outdoor Gear Design [Poster presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Hilk, T., Sencenbaugh, A., & **Kim, B.** (August, 2023). Reduction of Food Waste in Grocery Stores in Rural America: Reducing Food Waste at Retail Stores—an Explorative Study [Poster presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- Sustaita-Delgado, L., & **Kim, B.** (August, 2023). Early Childhood Development Toys for Visually Impaired: Guidelines for Designing an Enjoyable Toy for Visually Impaired Children with the Goal of Aiding in Various Areas of their Early Childhood Development [Poster presentation]. *Industrial Designers Society of America Education Symposium*, New York, USA. [double blind peer-reviewed].
- 2021 Panda, P., **Kim, B.**, Sener, E., & Asl, S. (October, 2021). A User-Centered Survey of Immersive Analytics: Preliminary Results [Poster presentation]. *IEEE Visualization Conference (VIS)*.
- 2020 Joines, S., **Kim, B.**, Liu, H., & Salamanca, C. (December, 2020). Design Thinking: Training, Support, and Investigations for LAS/IC [Poster presentation]. *2020 LAS Virtual Symposium*.
- 2018 Joines, S., **Kim, B.**, Liu, H., Dorsett, J., Salamanca, C., & Peavey, J. (December, 2018). Design Thinking through Research Course [Poster presentation]. *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA.
- 2017 Joines, S., Tellez, F., **Kim, B.**, Liu, C., Liu, H., Peavey, J., & Salamanca, C. (December, 2017). Design Thinking through Research Course [Poster presentation]. *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA.
- 2016 Joines, S., Tellez, F., **Kim, B.**, Liu, H., Ginn, W., Peavey, J., & Walker, A. (December, 2016). Design Thinking through Research Course [Poster presentation]. *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA.

**Workshop facilitation, Abstract Referred:**

- 2020 **Kim, B.**, & Park, J. (September, 2020). Online Collaboration for Interdisciplinarity: A Journey towards Interdisciplinarity in Design Research from Doctoral Design Students [Workshop]. *Digitally Engaged Learning Conference*. [peer-reviewed].

**PROFESSIONAL ACTIVITIES**

---

**Invited Presentation:**

- 2023 Invited Lecturer  
“Human Centered Design in Technology Driven Innovation”  
IMSE Graduate Seminar, Kansas State University, November 2023.
- Invited Speaker  
“AI’s Impact on Design”  
Exploring AI, KC Digital Summit, Industrial Designers Society of America KC Chapter, July 2023.
- Distinguished Speaker  
“Technology to Product Design Process for Design Education”  
5th Edition of Advanced Materials Science World Congress, Barcelona, Spain, March 2023.

- 2022 Keynote Speaker  
 “Study of AI-Driven Furniture Design Process,”  
 Artificial Intelligence, Machine Learning, and Robotics Webinar, Online, December 2022.
- 2019 Invited Speaker  
 “A Wearable Intervention for Laptop Users”  
*College of Design Leaders Council Student/Faculty Presentations*, Raleigh, NC, USA, October 2019.
- 2016 Invited Speaker  
 “Interaction Design Guidelines for Drivers”  
*Carolina Chapter of the Human Factors and Ergonomics Society*, Raleigh, NC, USA, May 2016.
- 2016 Invited Lecturer  
 R. Taylor, S. Joines, **B. Kim**, and H. Liu  
 “Human Subjects Research: NCSU IRB and HRPO Review for LAS Research”  
*Laboratory for Analytic Sciences WRM*, Raleigh, NC, USA, October 2017.

### **Invited Workshops/Boot Camps**

- 2022 Workshop Co-Organizer/Facilitator  
**B. Kim** and C. Lin  
 “Technology-Driven Design Workshop”  
 Tatung University, Taipei, Taiwan, July 2022.
- 2015 Invited Workshop Participant  
**Defense Advanced Research Projects Agency Design Boot Camp**  
 Washington D.C., April 2015.

### **Invited Performance:**

- 2022 Sketching Performer  
 Sketching and Ideation Session. Kansas State University IDSA Student Chapter  
 Manhattan, KS, USA, October 2022.
- 2016 Drawing Performer  
 NC Museum of Art  
 Raleigh, NC, USA, April, 2016.

### **Poster Presentation:**

- 2017 Joines, S., Goodell, H., & **Kim, B.** (April, 2017). Breast Motion Simulation Project [Poster presentation].  
 Hanesbrands Poster Presentation Session, Winston-Salem, NC, USA.
- 2016 **Kim, B.** (April, 2016). Car Sharing and Interaction Design [Poster presentation]. *2015-2016 Korean American Scientist and Engineers Association (KSEA) South-Atlantic Regional Conference Poster Competition* (NC Chapter).
- Kim, B.**, Joines, S., Feng, J., & Flinchum, R. (March, 2016). Interaction Design Guidelines for Drivers [Poster presentation]. 11th Annual Graduate Student Research Symposium, Raleigh, NC, USA.
- 2015 **Kim, B.**, & Joines, S. (March, 2015). Universal Design Checklist for Control Panel - Microwave Oven [Poster presentation]. *Universal Design Symposium*, Raleigh, NC, USA.

### **MEDIA EXPOSURE**

---

- 2023 Title: K-State research lives in our daily lives  
 Media: Seek Research Magazine | [ARTICLE LINK](#)
- 2016 Title: CDN-GM interactive design competition winners announced

Media: Car Design News | [ARTICLE LINK](#)  
Work Title: [GMC ANTS: Drone Furniture Delivery Rental Service](#)

Title: Byungsoo Wins GM Interactive Design Competition  
Media: DESIGN NCSU | [ARTICLE LINK](#)  
Work Title: [GMC ANTS: Drone Furniture Delivery Rental Service](#)

Title: A Master Plan  
Media: DESIGN NCSU | [ARTICLE LINK](#)

2012 Title: It's not hard to find your way... Various road signs, unified as one  
Media: Mail Economy | [ARTICLE LINK](#)  
Work Title: [Public Signage Design Guideline](#)

Title: Distributed 'Artificial Light Pollution Management Plan and Night Landscape Design Guidelines' by Gyeonggi Province  
Media: DESIGN NCSU | [ARTICLE LINK](#)  
Work Title: [Light Pollution Control Plan and Nightscape Design Guideline](#)

## SERVICE

---

### Professional Service On-Campus:

2023 International Studies  
Committee Member (2021.1–present)  
College of Architecture, Planning and Design, Kansas State University

Industrial Design Internship Program  
Coordinator (2020.8–present)  
College of Architecture, Planning and Design, Kansas State University

ENVD Working Group (1<sup>st</sup> Year Studio)  
Committee Member (2021.1–2023.11)  
College of Architecture, Planning and Design, Kansas State University

Faculty Development Award  
Reviewer (2023 Spring)  
College of Architecture, Planning and Design, Kansas State University

University Small Research Grant  
Reviewer (2023 Spring)  
College of Architecture, Planning and Design, Kansas State University

2020.8 – 2021.8 Intercultural Collaborative Committee  
Committee Member (2020.8–2021.8)  
College of Architecture, Planning and Design, Kansas State University

Industrial Design Academic affair  
Committee Member (2020.8–2021.8)  
College of Architecture, Planning and Design, Kansas State University

### Professional Service Off-Campus

2022.7 – present Editorial Board Member  
Design Works (academic Journal)

2024 Reviewer  
Archives of Design Research (academic journal)

2022 Reviewer  
Design Research Society (international conference proceedings)

2021 – 2022 Reviewer  
Design Works (academic journal)

2019 Reviewer  
63rd Human Factors and Ergonomics Society (international conference proceedings)

Conference Session Co-Chair  
Applied Human Factors and Ergonomics

#### **SCHOLARSHIP: RECOGNITIONS OF ACADEMIC PERFORMANCE**

---

2017 – 2018 North Carolina State University Graduate Research Assistantship & North Carolina State University Graduate Fellowship  
Full tuition support

2016 The Honor Society of Phi Kappa Phi, Phi Kappa Phi  
Top 10% Students at North Carolina State University

2015 – 2016 L. Franklin Bost Industrial Design Scholarship, North Carolina State University  
Full tuition support

#### **PROFESSIONAL MEMBERSHIPS & AFFILIATION**

---

2022.5 – 2024.7 Industrial Designers Society of America, Young Professional Member

2019.7 – 2020.7 The Human Factors and Ergonomics Society, Student Member  
Industrial Designers Society of America, Student Member