

**Byungsoo Kim, Ph.D.**

Assistant Professor of Interior Architecture and Industrial Design (IAID), Kansas State University  
[byungsoo@ksu.edu](mailto:byungsoo@ksu.edu)

**EDUCATION & CREDENTIALS**

North Carolina State University, Raleigh, NC  
 Doctor of Philosophy in Design, *July 2020 (GPA: 4.0/4.0)*  
 North Carolina State University, Raleigh, NC  
 Master's Degree in Industrial Design, *December 2016 (GPA: 4.0/4.0)*  
 Hong-ik University, Sejong, South Korea  
 Bachelor's Degree in Product Design, *August 2012 (GPA: 3.83/4.5)*

**PROFESSIONAL EXPERIENCE**

Kansas State University, Manhattan, KS  
 • Assistant Professor, Department of IAID August 2020 – Present

NC State University, Raleigh, NC  
 • Research Assistant, Research in Ergonomics and Design (RED) Lab August 2017 – 2020  
 • Co-Instructor, Department of Industrial Design January 2019 – May 2019  
 • Research Associate, Department of Industrial Design April 2017 – August 2017  
 • Graduate Teaching Assistant, Department of Industrial Design Spring 2015 – Fall 2016

Freelance Designer/Design Consultant, Raleigh, NC May 2017 – July 2018

General Motors, Detroit, MI May 2016 – August 2016  
 • Creative Design Intern

JLG (Oshkosh Corporation), Hagerstown, MD May 2015 – August 2015  
 • Industrial Design Intern

Living Environmental Design Research Institute, Seoul, South Korea December 2011 – July 2014  
 • Designer/Researcher/Instructor

Republic of Korea Armed Forces, Yeoncheon, South Korea April 2006 – April 2008  
 • Military Driver/Operation Staff

**TEACHING EXPERIENCE**

Assistant Professor | Kansas State University, Manhattan, KS  
 • (Assigned) INDD 500 Materials and Manufacturing Processes Spring 2021  
 • (Assigned) ENVD 202 Design Studio Spring 2021  
 • IAPD 430 Visual Communication 1 Fall 2020  
 • INDD 325 Human Factors and Industrial Design Fall 2020

Co-Instructor | NC State University, Raleigh, NC  
 • ID 300 Design Studio Spring 2019

**RESEARCH EXPERIENCE**

Research Assistant | RED Lab, North Carolina State University August 2017 – 2020  
 • 'The Role of Design in Technology-Driven Product Development' (Dissertation).  
 • 'Collaborative Report Generation Project' from the Laboratory for Analytic Science (LAS).  
 • 'Interaction Design for Drivers in Car-Sharing Systems' (Master's degree final project).  
 • 'Wearable Intervention for Laptop Users.'  
 • 'Aging Experience Suit Development'

Research Associate | RED Lab, North Carolina State University April 2017 – August 2017

- ‘A Simulator Development to Evaluate the Comfort of Garments’ from the Hanes brand.

Research Assistant | Human-Centered Integrated Design Lab, Yonsei University March 2014 – April 2014

- ‘Home Chat’ from LG.

Researcher/Designer/Instructor | LEDR Institute December 2011 – June 2014

- ‘Automatic Discharge Processing System Design for Patients Who Lives in Bed’ from Korea Evaluation Institute of Industrial Technology.
- ‘Public Facilities Standard Design’ from Pyeongtaek City.
- ‘Han River Fishing Village Building Project’ from the Korea Rural Community Corporation.
- ‘Research for National Park Facilities Universal Design Guideline’ from Korea National Park Service.
- ‘Public Signage Design Guideline’ from the Gyeonggi Provincial Government.
- ‘Artificial Light Pollution Management Plan and Nighttime Scene’ from the Gyeonggi Provincial Government.

## PUBLICATIONS

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### Journal Articles, In Print:

- **B. Kim**, S. Joines, J. Feng, and R. Flinchum, “Usability Study to Improve Interaction Design for Drivers in Car-Sharing Systems,” *Journal of Usability Study*, vol. 13, no. 4, pp. 220–247, 2018 (peer-reviewed).

### Journal Articles, In Preparation:

- **B. Kim**, S. Joines, and J. Feng, “Technology-Driven Design Process: Teaching and Mentoring Technology-Driven Design Process in Industrial Design Education,” in preparation for *International Journal of Technology and Design Education*
- **B. Kim**, S. Joines, and T. Liu, “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*.
- **B. Kim**, S. Joines, and D. Ham, “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*.

### Trade Publications, In Print:

- **B. Kim** and S. Joines, “Universal Design for unfamiliar environments,” *Design for All Institute of India*, vol. 13, no. 1, pp. 48–53, 2018.

## CONFERENCES

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### Reviewed Conference Proceedings with Oral Presentation:

- **B. Kim** and P. Panda, “Data Visualizations for Interdisciplinary Communication in HFE,” submitted to *10th International Conference on Applied Human Factors and Ergonomics*, New York, USA, July 2021 (peer-reviewed)
- **B. Kim**, H. Liu, and S. Joines, “A Wearable Intervention for Laptop Users,” *63rd Human Factors and Ergonomics Society*, Seattle, USA, November 2019 (peer-reviewed).
- **B. Kim** and S. Joines, “The Role of Design in Technology-Driven Ergonomics Product Development,” *10th International Conference on Applied Human Factors and Ergonomics*, Washington D.C., USA, July 2019 (peer-reviewed).
- J. Park, **B. Kim**, **B. Lee**, R. Traci, and D. Hands, “Interdisciplinarity of Ph.D. students across the Atlantic: A Case of Interdisciplinary Research Team Building,” *the 13th European Academy of Design Conference*, Dundee, Scotland, April 2019 (peer-reviewed).
- **B. Kim**, H. Liu, and S. Joines, “Designing for Empathy: Research Expanding Aging Experience Suit for Educational Purposes,” *Industrial Designers Society of America Education Symposium*, Seattle, USA, August 2015. (peer-reviewed).

## Conference presentation and workshop facilitation, abstract refereed:

- S. Joines, **B. Kim**, H. Liu, and C. Salamanca, “Design Thinking: Training, Support, and Investigations for LAS/IC,” 2020 LAS Virtual Symposium, December 2020 (online).
- **B. Kim** and J. Park, “Online Collaboration for Interdisciplinarity: A Journey towards Interdisciplinarity in Design Research from Doctoral Design Students,” Digitally Engaged Learning Conference, September 2020 (online, peer-reviewed).
- C. Yi, J. Park, **B. Kim**, “Interdisciplinary research team workshop: bottom-up approach,” *12th Annual International Science of Team Science Conference*, Durham, USA, June 2020.
- J. Park, **B. Kim**, C. Yi, and S. Joines, “Evaluating a Workshop for Interdisciplinarity in Environmental Design Research,” *Proceedings of Conference for 51th Environmental Design Research Association (EDRA)*, Tempe, USA, April 2020.
- **B. Kim**, J. Park, C. Yi, and S. Joines, “Workshop of Interdisciplinary Research Team Building,” *2020 KSEA-NC Interdisciplinary Research Conference*, Raleigh, USA, February 2020.
- **B. Kim**, S. Joines, J. Feng, and R. Flinchum, “Car Interaction Design for Car-Sharing Systems,” *10th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications*, Toronto, Canada, September 2018.
- **B. Kim** and S. Joines, “The Use of a Wearable Intervention for Laptop Users,” *12th International Conference on Design Principles & Practices*, Barcelona, Spain, March 2018.

## Poster Presentation:

- S. Joines, **B. Kim**, H. Liu, J. Dorsett, C. Salamanca, J. Peavey, “Design Thinking through Research Course,” *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA, December 2018.
- S. Joines, F. Tellez, **B. Kim**, C. Liu, H. Liu, J. Peavey, C. Salamanca, “Design Thinking through Research Course,” *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA, December 2017.
- S. Joines, H. Goodell, **B. Kim**, “Breast Motion Simulation Project,” *Hanesbrands poster presentation session*, Winston-Salem, NC, USA, April 2017.
- S. Joines, F. Tellez, **B. Kim**, H. Liu, W. Ginn, J. Peavey, A. Walker, “Design Thinking through Research Course,” *Laboratory for Analytic Sciences Research Symposium*, Raleigh, NC, USA, December 2016.
- **B. Kim**, “Car Sharing and Interaction Design,” 2015-2016 *Korean American Scientist and Engineers Association (KSEA) South-Atlantic Regional Conference Poster Competition (NC Chapter)*, April 2016.
- **B. Kim**, S. Joines, J. Feng, and R. Flinchum, “Interaction Design Guidelines for Drivers,” *11th Annual Graduate Student Research Symposium*, Raleigh, NC, USA, March 2016.
- **B. Kim** and S. Joines, “Universal Design checklist for control panel - Microwave oven,” *Universal Design Symposium*, Raleigh, NC, USA, March 2015.

**SPEAKING ENGAGEMENTS**

## Invited Presentation:

- **B. Kim**, H. Liu, and S. Joines, “A Wearable Intervention for Laptop Users,” *College of Design Leaders Council Student/Faculty Presentations*, Raleigh, NC, USA, October 2019.
- R. Tayloe, 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.

**TECHNOLOGY TRANSFER: PATENTS PENDING AND DISCLOSURES FILED**

Hanes Breast Motion Simulator Combine (NCSU File 19-19242), USA	2019
<ul style="list-style-type: none"> <li>• Submitted (fees for both the international and US filings were paid for by Hanes).</li> </ul>	
Shampoo Container Design (Design Registration Number: 0673350), South Korea.	2012
<ul style="list-style-type: none"> <li>• Designing an easy-to-use and eco-friendly shampoo Container (the Korean Intellectual Property Office).</li> </ul>	

## AWARDS & RECOGNITION

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|---|-------------|
| • HFES Student Paper Award, Human Factors and Ergonomics Society  | 2019        |
| • Student Scholarship, First Korean Baptist Church  | 2019        |
| • NCSU Graduate Research Assistantship, North Carolina State University   | 2017 – 2018 |
| • NCSU Graduate Fellowship, North Carolina State University   | 2017 – 2018 |
| • L. Franklin Bost Industrial Design Scholarship, North Carolina State University                                     | 2015 – 2016 |
| • The Honor Society of Phi Kappa Phi, Phi Kappa Phi   | 2016        |
| • Car Design News and GM interactive Design Competition, 1st Place, General Motors                                    | 2016        |
| • NCSU Graduate Student Research Symposium, Winner, North Carolina State University                                   | 2016        |
| • NCSU Chapter Graduate Research Award, Recognition of Superior Achievements in Scientific Research, Sigma Xi         | 2016        |
| • KSEA Poster Competition (NC Chapter), 1st Place, Korean American Scientists and Engineers Association               | 2016        |
| • Asian Smart Living International School, the Best Practice & the Most Popular Award, Taiwan's Ministry of Education | 2014        |
| • iF Universal Design Award, Winner & Consumer Favorite, iF International Forum Design                                | 2013        |
| • Spark Concept Design Award, Finalist, Spark   | 2012        |
| • Design to Business Fair, Bronze Prize, Korean Intellectual Property Office  | 2012        |
| • Reddot Concept Design Award, Winner, Design Zentrum Nordrhein Westfalen   | 2012        |
| • Design for Social, Finalist, Utilità Manifesta  | 2012        |
| • Social Enterprise Excellent Item Contest, Excellence Prize, Gyeonggi Government                                     | 2012        |

## SCHOLARLY & PROFESSIONAL HONORS

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|---|------|
| • Reviewer, 63rd Human Factors and Ergonomics Society                             | 2019 |
| • Co-chair, Applied Human Factors and Ergonomics and the Affiliated Conferences   | 2019 |
| • Invited Presenter, Carolina Chapter of the Human Factors and Ergonomics Society | 2016 |
| • Invited Drawing Performer, North Carolina Museum of Art                         | 2016 |
| • Invited Facilitator, Defense Advanced Research Projects Agency Design Boot Camp | 2015 |

## DESIGN EXHIBITS:

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|---|------|
| • DRIM, Reddot Design Museum, Singapore                   | 2012 |
| • DRIM, Utilita Manifesta Exhibition, Milan, Italy        | 2012 |
| • Souvenir Design, Exhibition, Jeju-do, South Korea       | 2012 |
| • DRIM, Undergraduate Graduation Exhibition, Seoul, South | 2012 |

## LEADERSHIP

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| • Ph.D. Student Association members in Design, North Carolina State University | 2018 |
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## LANGUAGES

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English: Proficient, Korean: Native, Japanese: Beginner

## PROFESSIONAL MEMBERSHIPS & AFFILIATION

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| • The Human Factors and Ergonomics Society, Student Member           | July 2019 – Current |
| • Industrial Designers Society of America, Student Member            | July 2019 – Current |
| • Industrial Designers Society of America, Young Professional Member | May 2020 – Current  |

## TECHNICAL SKILLS

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Research: Mendeley (Reference Manager), driving simulator, eye-tracking, R, Tracker (video analysis & modeling tool), Tableau

Design: Adobe Creative Cloud (Illustrator, Photoshop, and InDesign), Sketch, XMind, Rhinoceros 3D,

SolidWorks, 3ds Max, Unity, Keyshot, 3d printing, Storyboarding  
Others: Microsoft Office (Word, Excel, PowerPoint, Outlook), Google Suite