

# Bogoan Kim, Ph.D.

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CONTACT INFORMATION	Building E8-10, Room 302 Chungdae-ro 1, Seowon-gu, Cheongju-si, Chungcheongbuk-do, 28644, Korea	Tel: + 82 - 43 - 261 - 2483 Email: bogoan@cbnu.ac.kr Homepage: <a href="https://bogoankim.github.io/">https://bogoankim.github.io/</a>
EDUCATION	<b>Hanyang University</b> , Seoul, Korea <ul style="list-style-type: none"><li>• <i>Ph.D. in Artificial Intelligence</i><ul style="list-style-type: none"><li>– Dissertation: BalancePath: AI-VR Framework for Personalized Adaptive System</li><li>– Advisor: Prof. Kyungsik Han</li></ul></li></ul>	Feb 2025
	<b>University of Minnesota – Twin Cities</b> , MN, USA <ul style="list-style-type: none"><li>• <i>B.S. in Statistics (Graduated with honors)</i><ul style="list-style-type: none"><li>– Thesis: Moderate-to-Vigorous Physical Activity and BP in Hypertensive Adults</li><li>– Advisor: Prof. Barbara Kuzmak</li></ul></li></ul>	Jan 2017
POSITIONS	<b>Chungbuk National University</b> , Cheongju, Korea <ul style="list-style-type: none"><li>• <i>Assistant Professor, School of Information and Communication Engineering</i></li></ul>	Sep 2025 – Present
	<b>KAIST</b> , Daejeon, Korea <ul style="list-style-type: none"><li>• <i>Jang Young-Sil Postdoctoral Fellow, College of Engineering</i><ul style="list-style-type: none"><li>– Advisors: Profs. Hwajung Hong and Uichin Lee</li></ul></li></ul>	May 2025 – Aug 2025
	<b>Hanyang University</b> , Seoul, Korea <ul style="list-style-type: none"><li>• <i>Postdoctoral Researcher, Department of Artificial Intelligence</i><ul style="list-style-type: none"><li>– Advisor: Prof. Kyungsik Han</li></ul></li></ul>	Mar 2025 – Apr 2025
	<b>The Pennsylvania State University</b> , PA, USA <ul style="list-style-type: none"><li>• <i>Visiting Scholar, College of IST</i><ul style="list-style-type: none"><li>– Advisors: Profs. Dongwon Lee and Aiping Xiong</li></ul></li></ul>	Jan 2020 – Jun 2020
	<b>Indiana University</b> , IN, USA <ul style="list-style-type: none"><li>• <i>Visiting Scholar, Luddy School of Informatics</i><ul style="list-style-type: none"><li>– Advisors: Profs. Patrick C. Shih and Georgia C. Frey</li></ul></li></ul>	Jun 2019 – Sep 2019
AWARDS & HONORS	<b>Jang Young Sil Postdoctoral Fellowship</b> <b>Hanyang Postdoctoral Research Fellowship</b> <b>NRF of Korea Ph.D. Fellowship</b> <ul style="list-style-type: none"><li>• Granted 40M KRW (equivalent to 35,000 USD) stipend for 2-year Ph.D. studies</li><li>• Proposal title: AI+VR-based QoLT Systems for Social Independence of Autistic Individuals</li></ul> <b>SIGCHI Travel Grant</b> for UIST 2023 Doctoral Symposium <b>Gary Marsden Travel Award</b> for CHI 2023 <b>SK Creative Challenge Finalist</b> <b>IITP Best Global Research Team Award</b> <b>IITP High-Potential Individuals Global Training Fellowship</b> <ul style="list-style-type: none"><li>• Support for research @ Pennsylvania State University</li></ul> <b>Indiana University Global Talent Attraction Program (GTAP) Fellowship</b> <ul style="list-style-type: none"><li>• Support for research @ Indiana University</li></ul> <b>Yoonmin Foundation Good Starter Finalist</b> <ul style="list-style-type: none"><li>• 3rd generation, Biz section (12 out of 349 teams)</li></ul> <b>Global Excellence Scholarship</b> (merit-based; 4,210 USD) <b>Special Recognitions for Outstanding Reviews</b> <ul style="list-style-type: none"><li>• CHI 2024, CHI 2025, IMWUT 2025, CHI 2026</li></ul>	2025 2025 2023 2023 2023 2023 2022 2021 2020 2019 2018 2011

## Domestic Conference Awards

- Grand Paper Award: KDMS 2024
- Best Paper Award: KDMS 2024
- Best Presentation Award: KCC 2024

## PUBLICATIONS

### Conference Proceedings (\* denotes NRF-recognized top-tier CS conferences; \* indicates equal contribution)

- [c.12] QuerySwitch: Supporting the Design Process by Balancing Vagueness through Large Language Models  
\* M Kim, B Kim, and K Han  
**CHI 2026 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.11] LAPS: Automating Hypothesis-Driven Statistical Analysis of Public Survey Using Large Language Models  
\* {J Kim\*, D Jeong\*}, B Son, B Kim, and K Han  
**CHI 2026 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.10] “I Choose to Live, for Life Itself”: Understanding Agency of Home-Based Care Patients Through Information Practices and Relational Dynamics in Care Networks  
\* {S-I Kim\*, J Park\*}, B Kim, and H Hong  
**CHI 2026 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.9] Understanding Human-Multi-Agent Team Formation for Creative Work  
\* H Lim, D Choi, S Nam, B Kim, and H Hong  
**CHI 2026 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.8] “I Don’t Know Why I Should Use This App”: Holistic Analysis on Engagement Challenges in Mental Health  
\* {S Jin\*, B Kim\*}, and K Han  
**CHI 2025 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.7] Narrating Routines through Game Dynamics: Impact of a Routine Management App for Autistic Individuals  
\* B Kim, D Jeong, H Hong, and K Han  
**CHI 2024 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.6] V-DAT: Supporting Self-Awareness for Autistic People from Multimodal VR Sensor Data  
\* B Kim, D Jeong, JG Kim, H Hong, and K Han  
**UIST 2023 (ACM Symposium on User Interface Software and Technology)**
- [c.5] Supporting Independence of Autistic Adults through Mobile and Virtual Reality Technologies  
\* B Kim (Doctoral Symposium)  
**UIST 2023 (ACM Symposium on User Interface Software and Technology)**
- [c.4] RoutineAid: Externalizing Key Design Elements to Support Daily Routines of Individuals with Autism  
\* B Kim, S-I Kim, S Park, HJ Yoo, H Hong, and K Han  
**CHI 2023 (ACM CHI Conference on Human Factors in Computing Systems)**
- [c.3] VISTA: User-Centered VR Training System for Effectively Deriving Characteristics of Autistic Individuals  
\* B Kim, D Jeong, M Jeong, T Noh, S-I Kim, T Kim, S-Y Jang, HJ Yoo, JG Kim, H Hong, and K Han  
**VRST 2022 (The ACM Symposium on Virtual Reality Software and Technology)**
- [c.2] ChamberBreaker: Mitigating the Echo Chamber Effect through a Gamified Inoculation System  
\* Y Jeon, B Kim, A Xiong, D Lee, and K Han  
**CSCW 2021 (ACM Conference on Computer-Supported Cooperative Work and Social Computing)**
- [c.1] Photos Don’t Have Me, But How Do You Know Me?: Analyzing and Predicting Users on Instagram  
K Han, Y Jo, Y Jeon, B Kim, J Song, and S-W Kim  
**UMAP 2018 (ACM Conference on User Modeling, Adaptation and Personalization)**

### Journal Articles (\* denotes JCR 2023 Q1 journal; \* indicates equal contribution)

- [j.10] VR-ACT: Transforming Clinical Evidence of ACT through VR for Subthreshold Depression  
\* B Kim, D Jeong, YS Choi, H Kim, and K Han  
**Springer Virtual Reality (SCIE, IF = 5.0, Published 2026.03)**

- [j.9] Enhancing Mindfulness-Based Cognitive Therapy in a Virtual Reality: A Prospective Interventional Study  
 \* {B Kim\*, D Jeong\*}, YS Choi, Y Choi, H Kim, and K Han  
**Scientific Reports** (SCIE, IF = 3.9, Published 2025.09)
- [j.8] Development of a Personalized Early Prediction Model for Cybersickness in Virtual Reality  
 YS Choi, D Jeong, B Kim, and K Han  
**KIISE Transactions on Computing Practices** (KCI, Published 2025.06)
- [j.7] Promoting Self-Efficacy of Individuals with Autism in Practicing Social Skills in the Workplace Using Virtual Reality and Physiological Sensors: A Feasibility Study  
 S-I Kim, S-Y J, T Kim, B Kim, D Jeong, T Noh, M Jeong, HJ Yoo, K Han, H Hong, and JG Kim  
**JMIR Formative Research** (SCIE, IF 2.20, Published 2024.01)
- [j.6] A Study on Mobile Game Design to Support Daily Routines of Individuals with Autism  
B Kim, S-I Kim, S Park, HJ Yoo, H Hong, and K Han  
**Journal of the HCI Society of Korea** (KCI, Published 2022.05)
- [j.5] Usability Assessment of a Mobile Health Intervention for Increasing Physical Activity in Autistic Adults  
 DH Lee, GC Frey, A Min, B Kim, DJ Cothran, S Bellini, K Han, and PC Shih  
**Health Informatics Journal** (SCIE, IF = 2.3, Published 2020.09)
- [j.4] PuzzleWalk: A Theory-Driven Iterative Design of a Mobile Game for Promoting Physical Activity in Autistic Adults  
 \* B Kim, DH Lee, A Min, S Paik, GC Frey, S Bellini, K Han, and PC Shih  
**PLoS ONE** (SCIE, IF = 2.9, Published 2020.09)
- [j.3] No More One Liners: Bringing Context into Emoji Recommendations  
 J-G Kim, T Gong, B Kim, J Park, W Kim, E Huang, K Han, J Kim, JG Ko, and S-J Lee  
**ACM Transactions on Social Computing 2020**
- [j.2] A Systematic Review on Fake News Research through the Lens of News Creation and Consumption: Research Efforts, Challenges, and Future Directions  
B Kim, A Xiong, D Lee, and K Han  
**PLoS ONE** (SCIE, IF = 2.9, Published 2020.09)
- [j.1] ATM: The Effectiveness of Self-Regulation on Time Management through a Smartphone Application  
B Kim, S-W Lee, H Hong, and K Han  
**IEEE Access** (SCIE, IF = 3.4, Published 2019.07)

## PATENTS & SOFTWARE

### Granted Patent

- A Mobile System for Routine Management in Autistic Individuals  
 Registration Number: **KR10-2729263**

Oct 2024

### Filed Patents

- VR Data Analysis Tool to Support Self-Awareness for Autistic Individuals  
 Application Number: **KR10-2023-0116955**  
 Aug 2023
- VR-based Interactive Social Skills Training System for Autistic Individuals  
 Application Number: **KR10-2023-0116954**  
 Aug 2023
- A Multimodal LLM Capturing Inter-modal Dynamics for Personalized VR Sickness Prediction  
 Application Number: **KR10-2025-0100532**  
 Jun 2025

### Registered Software

- VR-based Dashboard for Clinical Support and Patient Monitoring in Depression Care  
 Registration Number: **C-2024-034698**  
 Oct 2024

## TEACHING EXPERIENCE

### Faculty Instructor (\* denotes courses taught in English)

- [GR] Special Topics in Deep Learning\* (8836552-01)  
 Spring 2026
- [UG] Python Programming (0914006-10)  
 Spring 2026
- [UG] Gaesin Frontier II (0281087-12)  
 Spring 2026
- [UG] Capstone Design (5108102-03)  
 Spring 2026
- [UG] Advanced Computer Programming (5108113-01)  
 Spring 2026

	<ul style="list-style-type: none"> <li>[UG] Intelligent System (5108115-01)</li> <li>[UG] Object-Oriented Programming (5108124-01)</li> <li>[UG] Fundamental Computer Programming (0914002-18)</li> </ul>	Fall 2025 Fall 2025 Fall 2025
<b>Instructor / Co-lecturer</b> (* denotes courses taught in English)		
	<ul style="list-style-type: none"> <li>Computational Social Science*</li> <li>Human-Computer Interaction*</li> <li>Human-Computer Interaction*</li> <li>Introduction to Software Design*</li> <li>Creative Software Design*</li> <li>Introduction to Software Design*</li> <li>Creative Software Design*</li> <li>Data Structures and Practice*</li> <li>AI Intensive Class</li> <li>Data Structures and Practice*</li> </ul>	Spring 2025 Fall 2024 Fall 2023 Spring 2023 Fall 2022 Spring 2022 Fall 2021 Spring 2021 Fall 2019 Spring 2019
<b>Teaching Assistant</b>		
	<ul style="list-style-type: none"> <li>Algorithms</li> <li>Introduction to AI Programming Language</li> <li>The Basics of Data Analytics</li> <li>The Basics of Data Analytics</li> </ul>	Fall 2020 Spring 2020 Fall 2018 Spring 2018
<b>INVITED &amp; SELECTED TALKS</b>		
	<b>Lab Guest Speaker Session</b> , Seoul, Korea	Aug 2025
	<ul style="list-style-type: none"> <li>Host: MINDS Lab @ Chung-Ang University</li> <li>Topic: Designing Sociotechnical Systems for People in Need</li> </ul>	
	<b>Europe-Korea Conference 2025 Seminar</b> , Seoul, Korea	Aug 2025
	<ul style="list-style-type: none"> <li>Host: College of Electrical &amp; Computer Engineering @ Chungbuk National University</li> <li>Topic: The Role of HCI Researchers in the Development of Digital Therapeutics</li> </ul>	
	<b>Lab Guest Speaker Session</b> , Daejeon, Korea	May 2025
	<ul style="list-style-type: none"> <li>Host: DxD Lab @ KAIST</li> <li>Topic: AI-Infused Software Systems for Solving Real-World Challenges</li> </ul>	
	<b>Omnibus Lecture Series on Computational Social Science</b> , Seoul, Korea	Mar 2025
	<ul style="list-style-type: none"> <li>Host: Department of Data Science @ Hanyang University</li> <li>Topic: User-Centered Digital Healthcare</li> </ul>	
	<b>Computational Social Science Colloquium</b> , Seoul, Korea	May 2024
	<ul style="list-style-type: none"> <li>Host: Center for Computational Social Science @ Hanyang University</li> <li>Topic: Sociotechnical Systems for People Who Are in Need</li> </ul>	
	<b>Top Conference Session</b> , Hongcheon, Korea	Jan 2024
	<ul style="list-style-type: none"> <li>Host: HCI Korea 2024</li> <li>Topic: Impact of a Gamified Routine Management App for Autistic Adults</li> </ul>	
	<b>UIST Doctoral Symposium</b> , San Francisco, CA USA	Oct 2023
	<ul style="list-style-type: none"> <li>Host: ACM UIST 2023</li> <li>Topic: AI-VR Framework for Personalized Adaptive System</li> </ul>	
	<b>Top Conference Session</b> , Jeju, Korea	Jun 2023
	<ul style="list-style-type: none"> <li>Host: Korea Computer Congress (KCC) 2023</li> <li>Topic: Externalizing Key Design Elements to Support Daily Routines of Autistic Adults</li> </ul>	
	<b>IITP Global Talent Program Workshop</b> , Seoul, Korea	Dec 2021
	<ul style="list-style-type: none"> <li>Host: Institute of Information &amp; Communications Technology Planning &amp; Evaluation (IITP)</li> <li>Topic: Explainable Fake News Detection with Deep Learning and Human Factors</li> </ul>	
	<b>HCI Korea Doctoral Colloquium</b> , Seoul, Korea	Jan 2021
	<ul style="list-style-type: none"> <li>Host: HCI Korea 2021</li> <li>Topic: Designing Inclusive Mobile Applications for Marginalized Populations</li> </ul>	

	<b>Global Talent Attraction Program Conference</b> , Bloomington, IN USA • Host: Luddy School of Informatics, Computing, and Engineering @ Indiana University • Topic: Designing a Mobile Game to Promote Physical Activity in Autistic Adults	Jun 2019
	<b>Global Challenge Program Symposium</b> , Tokyo, Japan • Host: Environment and Information Studies @ Keio University • Topic: Effectiveness of a Smartphone App in Self-Regulating Time Management	Jun 2018
ACADEMIC SERVICES	<b>Conference Reviewer</b> <ul style="list-style-type: none"><li>• The Conference on Human Factors in Computing Systems (<b>CHI</b>)</li><li>• The Conference on Interactive, Mobile, Wearable and Ubiquitous Technologies (<b>IMWUT</b>)</li><li>• The Designing Interactive Systems Conference (<b>DIS</b>)</li><li>• The Conference on Computer-Supported Cooperative Work &amp; Social Computing (<b>CSCW</b>)</li><li>• The Conference on Information and Knowledge Management (<b>CIKM</b>)</li><li>• The Symposium on Applied Computing (<b>SAC</b>)</li></ul>	2019 - 2026 2019 - 2025 2025 2019 - 2024 2021 - 2023 2022
	<b>Journal Reviewer</b> <ul style="list-style-type: none"><li>• ACM Transactions on Accessible Computing</li><li>• Expert Systems With Applications</li><li>• JMIR Formative Research</li><li>• The Nature Scientific Reports</li><li>• The Taylor and Francis Interactive Learning Environments</li></ul>	2026 2025 2025 2024 2023
	<b>Student Volunteer</b> <ul style="list-style-type: none"><li>• The Conference on Mobile Systems, Applications, and Services (<b>MobiSys</b>)</li></ul>	2019
ACADEMIC MENTORSHIP	<b>Mentored Students</b> <ul style="list-style-type: none"><li>• C Lee, Chungbuk National University (Master's Student)</li><li>• S Seo, Chungbuk National University (Undergrad. Student)</li><li>• D Jeong, Chungbuk National University (Undergrad. Student)</li><li>• D Lee, Chungbuk National University (Undergrad. Student)</li><li>• J Kim, Hanyang University (Ph.D. Student)</li><li>• L McNulty, University of Delaware (Ph.D. Student)</li><li>• H Lim, KAIST (Ph.D. Student)</li><li>• S-I Kim, Seoul National University (MD, Ph.D. Student)</li><li>• J Park, KAIST (Master's Student)</li><li>• M Kim, Hanyang University (Ph.D. Student)</li><li>• YS Choi, Hanyang University (Master's Student)</li><li>• D Jeong, Hanyang University (Ph.D. Student)</li><li>• S Paik, Ajou University (Master's Student)</li></ul>	Fall 2025 - Present Fall 2025 - Present Fall 2025 - Present Fall 2025 - Present Spring 2025 - Fall 2025 Spring 2025 - Fall 2025 Spring 2025 - Fall 2025 Fall 2024 - Fall 2025 Spring 2025 - Fall 2025 Spring 2024 - Present Fall 2023 - Spring 2026 Spring 2022 - Present Spring 2019 - Fall 2020
PRESS & INTERVIEWS	<b>Research Media Coverage</b> <ul style="list-style-type: none"><li>• "정신건강관리 앱 지속사용 한계..."</li><li>• KAIST 등, 자폐스펙트럼 장애 직장 적응 돋는 VR 개발</li><li>• New game can help users identify, avoid online echo chambers</li></ul>	May 2025 Jan 2023 Oct 2021
REFERENCES	<i>References available upon request.</i>	May 2016