

Bogoan Kim, Ph.D.

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: https://bogoankim.github.io/
EDUCATION	Hanyang University , Seoul, Korea • <i>Ph.D. in Artificial Intelligence</i> – Dissertation: BalancePath: AI-VR Framework for Personalized Adaptive System – Advisor: Prof. Kyungsik Han University of Minnesota – Twin Cities , MN, USA • <i>B.S. in Statistics (Graduated with honors)</i> – Thesis: Moderate-to-Vigorous Physical Activity and BP in Hypertensive Adults – Advisor: Prof. Barbara Kuzmak	Mar 2018 – Feb 2025 Sep 2011 – Jan 2017 (2-year military service included)
POSITIONS	Chungbuk National University , Cheongju, Korea • <i>Assistant Professor, School of Information and Communication Engineering</i> KAIST , Dajeon, Korea • <i>Postdoctoral Researcher, College of Engineering</i> – Advisors: Profs. Hwajung Hong and Uichin Lee Hanyang University , Seoul, Korea • <i>Postdoctoral Researcher, Department of Artificial Intelligence</i> – Advisor: Prof. Kyungsik Han The Pennsylvania State University , PA, USA • <i>Visiting Scholar, College of IST</i> – Advisors: Profs. Dongwon Lee and Aiping Xiong Indiana University , IN, USA • <i>Visiting Scholar, Luddy School of Informatics</i> – Advisors: Profs. Patrick C. Shih and Georgia C. Frey	Sep 2025 – Present May 2025 – Aug 2025 Mar 2025 – Apr 2025 Jan 2020 – Jun 2020 Jun 2019 – Sep 2019
AWARDS & HONORS	Jang Young Sil Postdoctoral Fellowship Hanyang Postdoctoral Research Fellowship NRF of Korea Ph.D. Fellowship • Granted 40M KRW (equivalent to 35,000 USD) stipend for 2-year Ph.D. studies • Proposal title: AI+VR-based QoLT Systems for Social Independence of Autistic Individuals SIGCHI Travel Grant for UIST 2023 Doctoral Symposium Gary Marsden Travel Award for CHI 2023 SK Creative Challenge Finalist IITP Best Global Research Team Award IITP High-Potential Individuals Global Training Fellowship • Support for research @ Pennsylvania State University Indiana University Global Talent Attraction Program (GTAP) Fellowship • Support for research @ Indiana University Yoonmin Foundation Good Starter Finalist • 3rd generation, Biz section (12 out of 349 teams) Honors on the Dean's List Global Excellence Scholarship (merit-based; 4,210 USD)	2025 2025 2023 2023 2023 2022 2021 2020 2019 2018 2011, 2012, 2015 2011

Special Recognitions for Outstanding Reviews

- CHI 2024, CHI 2025, IMWUT 2025, CHI 2026

Domestic Conference Awards

- Best Paper Awards: KDMS (2024: Grand Paper, Best Paper)
- Best Presentation Award: KIISE 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] Building Human–Multi-Agent Teams for Creative Works
★ 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 2025.12)

- [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

- [UG] Intelligent System (5108115-01) Fall 2025
- [UG] Object-Oriented Programming (5108124-01) Fall 2025
- [UG] Fundamental Computer Programming (0914002-18) Fall 2025

Instructor / Co-lecturer (* denotes courses taught in English)

- Computational Social Science* Spring 2025
- Human-Computer Interaction* Fall 2024
- Human-Computer Interaction* Fall 2023
- Introduction to Software Design* Spring 2023
- Creative Software Design* Fall 2022
- Introduction to Software Design* Spring 2022
- Creative Software Design* Fall 2021
- Data Structures and Practice* Spring 2021
- AI Intensive Class Fall 2019
- Data Structures and Practice* Spring 2019

Teaching Assistant

- Algorithms Fall 2020
- Introduction to AI Programming Language Spring 2020
- The Basics of Data Analytics Fall 2018
- The Basics of Data Analytics Spring 2018

**INVITED &
SELECTED TALKS**

Lab Guest Speaker Session, Seoul, Korea Aug 2025

- Host: DMAIS Lab @ Chung-Ang University
- Topic: Designing Sociotechnical Systems for People in Need

Europe-Korea Conference 2025 Seminar, Seoul, Korea Aug 2025

- Host: College of Electrical & Computer Engineering @ Chungbuk National University
- Topic: The Role of HCI Researchers in the Development of Digital Therapeutics

Lab Guest Speaker Session, Dajeon, Korea May 2025

- Host: DxD Lab @ KAIST
- Topic: AI-Infused Software Systems for Solving Real-World Challenges

Omnibus Lecture Series on Computational Social Science, Seoul, Korea Mar 2025

- Host: Department of Data Science @ Hanyang University
- Topic: User-Centered Digital Healthcare

Computational Social Science Colloquium, Seoul, Korea May 2024

- Host: Center for Computational Social Science @ Hanyang University
- Topic: Sociotechnical Systems for People Who Are in Need

Top Conference Session, Hongcheon, Korea Jan 2024

- Host: HCI Korea 2024
- Topic: Impact of a Gamified Routine Management App for Autistic Adults

UIST Doctoral Symposium, San Francisco, CA USA Oct 2023

- Host: ACM UIST 2023
- Topic: AI-VR Framework for Personalized Adaptive System

Top Conference Session, Jeju, Korea Jun 2023

- Host: Korea Computer Congress (KCC) 2023
- Topic: Externalizing Key Design Elements to Support Daily Routines of Autistic Adults

IITP Global Talent Program Workshop, Seoul, Korea Dec 2021

- Host: Institute of Information & Communications Technology Planning & Evaluation (IITP)
- Topic: Explainable Fake News Detection with Deep Learning and Human Factors

HCI Korea Doctoral Colloquium, Seoul, Korea Jan 2021

- Host: HCI Korea 2021
- Topic: Designing Inclusive Mobile Applications for Marginalized Populations

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