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/

<small>EDUCATION</small>

Hanyang University, Seoul, Korea   Mar 2018 – Feb 2025
- *Ph.D. in Artificial Intelligence*
  - Dissertation: BalancePath: AI-VR Framework for Personalized Adaptive System
  - Advisor: Prof. Kyungsik Han

University of Minnesota – Twin Cities, MN, USA   Sep 2011 – Dec 2016
- *B.S. in Statistics (Graduated with honors)*   *(2-year military service included)*
  - Thesis: Moderate-to-Vigorous Physical Activity and BP in Hypertensive Adults
  - Advisor: Prof. Barbara Kuzmak

<small>POSITIONS</small>

Chungbuk National University, Cheongju, Korea   Sep 2025 – Present
- *Assistant Professor, School of Information and Communication Engineering*

KAIST, Dajeon, Korea   May 2025 – Aug 2025
- *Postdoctoral Researcher, College of Engineering*
  - Advisors: Profs. Hwajung Hong and Uichin Lee

Hanyang University, Seoul, Korea   Mar 2025 – Apr 2025
- *Postdoctoral Researcher, Department of Artificial Intelligence*
  - Advisor: Prof. Kyungsik Han

The Pennsylvania State University, PA, USA   Jan 2020 – Jun 2020
- *Visiting Scholar, College of IST*
  - Advisors: Profs. Dongwon Lee and Aiping Xiong

Indiana University, IN, USA   Jun 2019 – Sep 2019
- *Visiting Scholar, Luddy School of Informatics*
  - Advisors: Profs. Patrick C. Shih and Georgia C. Frey

<small>AWARDS & HONORS</small>

Jang Young Sil Postdoctoral Fellowship	2025
Hanyang Postdoctoral Research Fellowship	2025
NRF of Korea Ph.D. Fellowship	2023

- 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	2023
Gary Marsden Travel Award for CHI 2023	2023
SK Creative Challenge Finalist	2022
IITP Best Global Research Team Award	2021
IITP High-Potential Individuals Global Training Fellowship	2020

- Support for research @ Pennsylvania State University

Indiana University Global Talent Attraction Program (GTAP) Fellowship   2019
- Support for research @ Indiana University

Yoonmin Foundation Good Starter Finalist   2018
- 3rd generation, Biz section (12 out of 349 teams)

Honors on the Dean's List	2011, 2012, 2015
Global Excellence Scholarship (merit-based; 4,210 USD)	2011

Special Recognitions for Outstanding Reviews
- CHI 2024, CHI 2025, IMWUT 2025

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.8] "I Don't Know Why I Should Use This App": Holistic Analysis on Engagement Challenges in Mental Health
⋆   {S Jin*, <u>B Kim</u>*}, 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
⋆   <u>B Kim</u>, 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
⋆   <u>B Kim</u>, 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
⋆   <u>B Kim</u> (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
⋆   <u>B Kim</u>, 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
⋆   <u>B Kim</u>, 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, <u>B Kim</u>, 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, <u>B Kim</u>, 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
⋆   <u>B Kim</u>, D Jeong, YS Choi, H Kim, and K Han
Springer Virtual Reality (SCIE, IF = 5.0, Published 2025.11)

[j.9] Enhancing Mindfulness-Based Cognitive Therapy in a Virtual Reality: A Prospective Interventional Study
⋆   {<u>B Kim</u>*, 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, <u>B Kim</u>, 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, <u>B Kim</u>, 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
<u>B Kim</u>, S-I Kim, S Park, HJ Yoo, H Hong, and K Han
Journal of he 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, <u>B Kim</u>, 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
⋆ <u>B Kim</u>, 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, <u>B Kim</u>, 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
⋆ <u>B Kim</u>, 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
<u>B Kim</u>, 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   Oct 2024
  Registration Number: **KR10-2729263**

Filed Patents
- VR Data Analysis Tool to Support Self-Awareness for Autistic Individuals   Aug 2023
  Application Number: **KR10-2023-0116955**

- VR-based Interactive Social Skills Training System for Autistic Individuals   Aug 2023
  Application Number: **KR10-2023-0116954**

- A Multimodal LLM Capturing Inter-modal Dynamics for Personalized VR Sickness Prediction   Jun 2025
  Application Number: **KR10-2025-0100532**

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

TEACHING
EXPERIENCE

Faculty Instructor
- Intelligent System (5108115-01)   Fall 2025
- Object-Oriented Programming (5108124-01)   Fall 2025
- 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

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: 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 — Jun 2019
- Host: Luddy School of Informatics, Computing, and Engineering @ Indiana University
- Topic: Designing a Mobile Game to Promote Physical Activity in Autistic Adults

Global Challenge Program Symposium, Tokyo, Japan — Jun 2018
- Host: Environment and Information Studies @ Keio University
- Topic: Effectiveness of a Smartphone App in Self-Regulating Time Management

ACADEMIC SERVICES

Conference Reviewer
- The Conference on Human Factors in Computing Systems (**CHI**) — 2019 - 2026
- The Conference on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**) — 2019 - 2025
- The Designing Interactive Systems Conference (**DIS**) — 2025
- The Conference on Computer-Supported Cooperative Work & Social Computing (**CSCW**) — 2019 - 2024
- The Conference on Information and Knowledge Management (**CIKM**) — 2021 - 2023
- The Symposium on Applied Computing (**SAC**) — 2022

Journal Reviewer
- The Nature Scientific Reports — 2024
- The Taylor and Francis Interactive Learning Environments — 2023

Student Volunteer
- The Conference on Mobile Systems, Applications, and Services (**MobiSys**) — 2019

REFERENCES

References available upon request.