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 — 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

POSITIONS

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

AWARDS & HONORS

Jang Young Sil Postdoctoral Fellowship — 2025

Hanyang Postdoctoral Research Fellowship — 2025

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)

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

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 Sthreshold Depresion
⋆   <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 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

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

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
- JMIR Formative Research — 2025
- 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.