Bocheon Gim

Department of AI Convergence
College of Information and Computing
Gwangju Institute of Science and Technology
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EDUCATION

M.S. In **Intelligent Robotics**   **Mar 2024 - Present**
Gwangju Institute of Science and Technology (GIST)   Gwangju, Korea
Advisor: Prof. SeungJun Kim

B.S. in **Electrical Engineering and Computer Science**   **Mar 2018 - Feb 2024**
Gwangju Institute of Science and Technology (GIST)   Gwangju, Korea
Advisor: Prof. Jeany Son & Prof. SeungJun Kim

EXPERIENCE

Research Assistant
Human-Centered Intelligent Systems Lab. (led by Prof. SeungJun Kim)   **Mar 2024 - Present**
Gwangju Institute of Science and Technology (GIST)   Gwangju, Korea

Research Intern
Human-Centered Intelligent Systems Lab. (led by Prof. SeungJun Kim)   **Jul 2022 - Feb 2024**
Gwangju Institute of Science and Technology (GIST)   Gwangju, Korea

English Translator & Training Systems Administrator
Republic of Korea Airforce (ROKAF)   **Jun 2020 - Feb 2022**
Completed Obligation at Staff Sgt.   Gwangju, Korea

HAFS Camp Senior Teacher (Winter)
Hankuk Academy of Foreign Studies   **Dec 2019 - Feb 2020**
Main Teacher of West-Point Class   Gwangju, Korea

RESEARCH INTERESTS

- Human Computer Interaction
- VR / AR / XR
- Multisensory Integration & Manipulation
- Automotive Interfaces

PUBLICATIONS

International

[I4] SelfBlending: Artificial Intelligence-driven Augmentation with Hand Interactions for Seamless Reality Blending in Virtual Environments

Ahmed Elsharkawy, **Bocheon Gim**, Aya Ataya, SeungJun Kim

IEEE TVCG – Under Review

[I3] TeleHopper: Simulating a Jumping Sensation as Proprioceptive Feedback for Teleportation in Virtual Reality via Electrical Muscle Stimulation
Juwon Um, **Bocheon Gim**, Seongjun Kang, Yumin Kang, Eunki Jeon, SeungJun Kim
ACM CHI 2025 Late-breaking Work

[I2] I Want to Break Free: Enabling User-Applied Active Locomotion in In-Car VR through Contextual Cues
Bocheon Gim, Seokhyun Hwang, Seongjun Kang, Gwangbin Kim, Dohyeon Yeo, and SeungJun Kim
ACM CHI 2025

[I1] Curving the Virtual Route: Applying Redirected Steering Gains for Active Locomotion in In-Car VR
Bocheon Gim, Seongjun Kang, Gwangbin Kim, Dohyeon Yeo, Seokhyun Hwang, and SeungJun Kim
ACM CHI 2024 Late-breaking Work

Domestic

[D2] TherMusic: A Valence-Arousal-Based Music Emotion Classifier and Thermal Feedback Headset System

Seongjun Kang, **Bocheon Gim**, Juwon Um, SeungJun Kim
KIISE Korea Computer Congress 2025 (Best Paper Award 🏆)

[D1] Utilizing Real-Time Video Matting to create a Scalable System for Real Hand Visualization and Interaction within Augmented Virtuality

Bocheon Gim, Seongjun Kang, Juwon Um, SeungJun Kim
KIISE Korea Computer Congress 2025

FUNDED PROJECTS

- **HCI + AI for Human-Centered Physical System Design (AI for HCI)**, GIST-MIT Research Collaboration Grant, GIST Research Project (2024-2025)

- **SpaceTop: Spatial Computing HCI Technology for Everywhere XR Productivity Workstations**, University ICT Research Center (ITRC) Program, IITP/MSIT (2024-2031)

- **Inter-University Alliance for Cultivating R&D Experts in Future Vehicular Technologies (I4FT)**, The Competency Development Program for Industry Specialist, KIAT/MOTIE (2022-2026)

- **Development of Natural User Interface (NUI) to Support Realistic Movement and Interaction within Metaverse Industrial Sites**, KETI (2022)

SKILLS

- Linguistic: Korean (Native), English (Native – iBT TOEFL (114/120))

- Programming Languages: Python, C, C#, C++, Java, Javascript, HTML/CSS, React Native, R

- Software & Tools: Unity, Unreal Engine, SPSS, MATLAB, JASP

- Hardware: Arduino, Raspberry Pi

- Visualization & Modeling : Blender, Final Cut Pro, Adobe Illustrator

ACADEMIC SERVICES

- **Peer Review** (17 total, 3 Special Recognitions for Outstanding Reviews)
    - **Full Papers**: CHI PLAY 2025, DIS 2025, MobileHCI 2025, IMWUT 2025, AutoUI 2025, SUI 2025
    - **Posters**: CHI 2025 LBW, DIS 2025 WIP, IMX 2025 WIP, MobileHCI 2025 WIP

- **Student Volunteering** : CHI 2025

- **Invited Talks** : KCC Top Conference Session (Jeju, South Korea)