

SUNYOUNG BANG

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RESEARCH INTERESTS

Augmented Reality, Human-Computer Interaction, User Experience

EDUCATION

Korea Advanced Institute of Science and Technology(KAIST)

Ph.D Candidate in Graduate School of Culture Technology (Advisor: Woontack Woo)

Korea Advanced Institute of Science and Technology(KAIST)

M.S in Graduate School of Culture Technology (Advisor: Woontack Woo)

Thesis: The Effect of Placement and Size of Augmented Information on User Experience in a Smartphone-AR HMD
Extended Display Environment

Seoul National University

B.F.A in Visual Communication Design

PUBLICATION

Conference and Journal Publications

- [C5] **AReading with Smartphones: Understanding the Trade-offs between Enhanced Legibility and Display Switching Costs in Hybrid AR Interfaces**
Sunyoung Bang, Hyunjin Lee, Seoyoung Oh, and Woontack Woo
CHI Conference on Human Factors in Computing Systems (CHI '25)(Conditionally Accepted)
- [C4] **Enhancing the Reading Experience on AR HMDs by Using Smartphones as Assistive Displays**
Sunyoung Bang and Woontack Woo
2023 IEEE Virtual Reality and 3D User Interfaces (VR)
- [C3] **Effects of Coordinate System and Position of AR Notification While Walking**
Hyunjin Lee, Sunyoung Bang, and Woontack Woo
2022 Virtual Reality
- [C2] **The effect of applying film-induced tourism to virtual reality tours of cultural heritage sites**
Hyerim Park, Jungi Kim, Sunyoung Bang, and Woontack Woo
2018 Digital Heritage International Congress (DigitalHERITAGE)
- [C1] **Authoring Personal Interpretation in a 3D Virtual Heritage Site to Enhance Visitor Engagement**
Hayun Kim, Sunyoung Bang, and Woontack Woo
2018 Digital Heritage International Congress (DigitalHERITAGE)

Poster Papers

- [P2] **Effects of Augmented Content's Placement and Size on User's Search Experience in Extended Displays**
Sunyoung Bang, Hyunjin Lee, and Woontack Woo
2020 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)
- [P1] **Effects of Background Complexity and Viewing Distance on an AR Visual Search Task**
Hyunjin Lee, Sunyoung Bang, and Woontack Woo
2020 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)

RESEARCH EXPERIENCE

RESEARCH PROJECT

WISE AR UI/UX Platform Development for Smartglasses

Supported by Institute for Information and Communications Technology Promotion (IITP)

- [P1, P2, C3, C4, C5]

Sep 2019 - Present

Researcher

Development of Infrastructure Technology for Creation of Cultural Contents Based on Spatial Data

Supported by Korea Creative Content Agency (KOCCA)

- [C1, C2]

Sep 2017 - Dec 2018

Researcher

SKILLS

Research Methods

Experiment design, hypothesis testing, statistical analysis, interviews,
thematic analysis

Programming Languages

C#, R

Prototyping & Graphic Tools

Unity3D, Figma, Adobe Illustrator, Adobe Premiere Pro, Autodesk 3ds Max

LANGUAGE

Korean Native

English High proficiency

TEACHING ASSISTANT

Topics in Culture Technology Project Planning <AR Project>, GCT700, KAIST

2022 Fall

Topics in Culture Technology Project Planning <AR Project>, GCT700, KAIST

2021 Fall

3D Interaction Design, GCT555, KAIST

2021 Spring

Topics in Culture Technology Project Planning <AR Project>, GCT700, KAIST

2020 Fall

ACADEMIC SERVICE

Reviewer

VR 2023

Student Volunteer

AH 2018