Minjung Park

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RESEARCH INTERESTS

Human-Computer Interaction
Human-Centered Design, Human-AI/Agent Interaction, Computer Supported Cooperative Work(CSCW)

EDUCATION

Carnegie Mellon University   *Aug. 2023 - Jun. 2029(expected)*
Ph.D. in Human-Computer Interaction, School of Computer Science   Pittsburgh, PA, USA

Korea Advanced Institute of Science and Technology (KAIST)   *Sep. 2021 - Jun. 2023*
M.S. in Industrial Design | Advisor: Hyeon-Jeong Suk   Daejeon, Korea

Korea Advanced Institute of Science and Technology (KAIST)   *Mar. 2018 - Aug. 2021*
B.S. in Industrial Design | Advisor: Youn-Kyung Lim   Daejeon, Korea
early graduation

PUBLICATIONS

Conference & Journal Papers

[c.1] Keunwoo Kim, **Minjung Park**, and Youn-Kyung Lim. **Guiding Preferred Driving Style Using Voice in Autonomous Vehicles: An On-Road Wizard-of-OZ Study** *In the Proceedings of the ACM Designing Interactive Systems Conference 2021(DIS'21).*

[j.3] **Minjung Park** and Hyeon-Jeong Suk.**The characteristics of facial emotions expressed in Memojis**. *In Computers in Human Behavior Report (companion journal to Computer in Human Behavior, IF=8.3).*

[j.2] **Minjung Park**, Soyeong Min, Taesoo Kim, and Hyeon-Jeong Suk. **Investigating the Relationship between Vehicle Front-Images and Voice-Assistants.** *In Korean Society for Emotion and Sensibility.*

[j.1] Taesu Kim, Gyunpyo Lee, **Minjung Park**, Homg min Lee, Ji-Woo Park, and Hyeon-Jeong Suk. **User Responses to Dynamic Light in Automobiles with EEG and Self-Assessment** *IEEE Access*

Posters & Workshop Papers

[p.2] **Minjung Park** and Hyeon-Jeong Suk. **New Mobile Adaptation System for Better Avatar-Mediated Communication: Facial Expression in Memoji.** *In the ACM international Conference on Mobile Human-Computer Interaction 2022 (MobileHCI'22).*

[p.1] Jaehong Kim, Chaeyoon Jeong, Mooyeol Oh, **Minjung Park**, Meeyoung Cha, and Wonjae Lee. **Emotions that Make Online Petitions Successful: A contrasting View of Private Signing and Public Sharing.** *In international Conference on Computational Social Science 2022 (IC2S2'22).*

[w.1] **Minjung Park** and Hyeon-Jeong Suk. **Emotional Expression in Memoji.** . *In CHI 2022 Workshop (Future of Emotion in HCI).*

PATENTS

Unmanned Aerial Vehicle	*Korean patent #1020150114725*
Water Duster Cleaner with Water Supply Control Capabilities	*Korean patent #1020150116542*
Clean Tool Using Static Electricity	*Korean patent #1020150116965*
Cleaning Goods for Disinfection	*Korean patent #1020200027776*

EXPERIENCE

KAIST Colorlab, Advised by Dr. Hyeon-Jeong Suk   Daejeon, Korea
Research Assistant & Funded Project Manager (*Hyundai Motors*)   *Sep. 2021 - Present*

- **Emotion-enhanced Facial Expressions using Memojis.**
  Utilizing Participatory Design(PD) method, explored the problems of the existing status quo and designed a guide for avatars' facial expressions in order to support reliable and accurate online communication.
  [p.2][w.1] Conducted the 5-Likert questionnaire to explore avatars' emotional conveyance level and confirmed the tendency and impact of one's nationality on the seven emotions.
  [j.3] Performed a human assessment and an AI-driven estimation to establish the baseline levels of seven basic emotions conveyed by Memojis.

- **Ambient lights in automobiles**
  [j.1] Served as Project Manager of a collaborative project with Hyundai Motors, provided surveys and VR(Unity+VIVE) workshops to improve the existing ambient lights in vehicles, performed digital ethnography, and conducted in-depth interviews with truckers.

KAIST Creative Interaction Design Lab, Advised by Dr. Youn-Kyung Lim   Daejeon, Korea
Undergraduate Researcher   *Jul. 2020 - Jul. 2021*
[c.1] Explored user experiences with teaching guiding styles to the Autonomous Vehicle agents to reflect the users' driving-style preferences with driving study on real roads using a Wizard-of-Oz design strategy.

CJ Livecity   Seoul, Korea
UX designer   *Nov. 2020 - Dec. 2020*
Designed user scenarios for future attraction and was hired as an official UX designer.

KAIST Colorlab, Advised by Dr. Hyeon-Jeong Suk   Daejeon, Korea
Undergraduate Researcher   *Jul. 2019 - Sep. 2019*
[j.2] Conducted Voice Agent-Front car image matching surveys to explore the most aligned car front design with Voice Agents and did the PCA(Principal Component Analysis).

KAIST Codesign Interaction Design Research Lab, Advised by Dr. Tek-Jin Nam   Daejeon, Korea
Undergraduate Researcher   *Mar. 2018 - Dec. 2018*
Designed a 3D-printed tumbler, changed its pattern using augmented prototyping, and explored the viability and reliability of the augmented prototyping method.

HONORS AND AWARDS

IF Award in communication design   *May. 2022*
Stock information app service which visualizes past stock charts through sentiment analysis.
(selected among 11000+ submissions)

Most Contributed-to-Creativity Student   *2022*
Honored with the title of most Creativity Student in **Tokyo Tech**'s 2022 online summer school.

Leadership Mileage Certificate, KAIST *2020*
Honor for top 3% among 3,600+ students with top achievements in leadership activities
including volunteering and campus activities.

Scholarship of Mintsage *Nov. 2019*
Received a $200 Industrial Design scholarship from Mintsage for
outstanding design accomplishments.

Intel ISEF *2017*
Selected as a finalist among more than 1,800 outstanding students and as a representative of Korea in
material science.

Talent Award of Korea *2016*
A total of 100 people are selected as Korea's next leaders.
(Award of Deputy Prime Minister and Minister of Education with $3000 scholarship)

SERVICES

Reviewing
ACM/SIGCHI Conference on Human Factors in Computing Systems (CHI) 2023

Student Volunteer
MobileHCI 2022 : Proceed to the in-person conference in more than 20 hours and selected as Gifted Artist
(SV's t-shirt designer)

SKILLS

Language
Korean(Native), English(Full professional proficiency), Chinese(Beginner)

Programming and Development
Web : HTML, CSS
Product Development : Processing, Arduino, C++, C
Data Processing : Python(numpy, pandas, plotly), R, SPSS
Data visualization : R(ggplot)

Design and Media Creation
Adobe : Photoshop, Illustrator, After Effects, Lightroom, XD
UI tool : Figma, Miro, Sketch, Protopie
Modeling tool : Keyshot, Fusion 360, Unity, Blender
Word editing : Latex

EXTRACURRICULAR ACTIVITIES

KAIST Student Ambassador, KAINURI *Mar. 2018 - Feb. 2020*
A member of Social Media Team

KAIST Vision Magazine Editor *Mar. 2018 - Feb. 2020*

THE-KAIST Innovation & Impact Summit *Mar. 2019*
Protocol Manager

KAIST Undergraduate Tennis Club *Mar. 2018 - Dec. 2018*
A member of executives in 2018.

KAIST Freshmen Student Volunteer *2018*