Eunji Park

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Research Interests

Human computer interaction

User behavior and performance modeling

Multimodal interaction and sensor fusion

Education

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
Ph.D in Computer Science (Advisor: Uichin Lee) Feb 2019 – Aug 2023

- Thesis: Data-Driven Human Behavior and Performance Modeling using Multimodal Datasets

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
M.S. in Culture Technology (Advisor: Byungjoo Lee) Feb 2017 – Feb 2019

- Thesis: Predicting error rates in pointing regardless of target motion

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
B.S. in Material Science and Engineering Feb 2010 – July 2015

Honors and Awards

NAVER PhD Fellowship Award, NAVER (5M KRW) 2021

Research Grant for Ph.D. Candidates, National Research Foundation of Korea (40M KRW) 2021

Honorable Mention Award, CHI'21 2021

Honorable Mention Award, CHI'20 2020

Kimyounghan Global Leader Scholarship (4M KRW) 2019

Wonkwangyeon Hall Exibition Competition - Media art 'Water lily', Grand Prize 2017

Teaching Awards

- Outstanding TA Award (CS592 Data Structure), School of Computing, KAIST (2023)
- Outstanding TA Award (CS592 Sensor Data Science), School of Computing, KAIST (2022)
- Outstanding TA Award (CS206 Data Structure), School of Computing, KAIST (2022)

Experience

Graduate Research Assistant Feb 2021 – present
Interactive Computing Lab, KAIST Daejeon, Korea

- Modeling Mental Efforts for Emotion Regulation in Customer Service Call Contexts
- Human Digital Twin for Emotion Workers
- Modeling Tracking Coverage of Physical Activity using Wearables and Smartphones Data
- Modeling User Performance and Behavior Using Machinery Data from Automated Manufacturing System (CHI'23)

Graduate Research Assistant Feb 2017 – Feb 2021
Interactive Media Lab, KAIST Daejeon, Korea

- Secrets of Gosu: Understanding Physical Combat Skills of Professional Players in First-Person Shooters (CHI'21)
- NYXL-IML Collaboration Project: Measuring NYXL Player's Physical and Cognitive Performance
- An Intermittent Click Planning Model (CHI'20)
- Button++: Designing Risk-aware Smart Buttons (CHI'18 Late Breaking Work)
- A Study on the Effect of Inter Key Spacing on Typing Performance (HCI Korea'18)
- Moving Target Selection: A Cue Integration Model (CHI'18)

R&D Researcher July 2015 – Feb 2017
SK Hynix Icheon, Korea

- Participated in process integration and performance improvement of DRAM

Publications

Conference Papers

- **Eunji Park**, Yugyeong Jung, Inyeop Kim, Uichin Lee. "Charlie and the Semi-Automated Factory: Data-Driven Operator Behavior and Performance Modeling for Human-Machine Collaborative Systems". (CHI'23)

- **Eunji Park**, Sangyoon Lee, Auejin Ham, Minyeop Choi, Sunjun Kim, and Byungjoo Lee. "Secrets of Gosu: Understanding Physical Combat Skills of Professional Players in First-Person Shooters". *In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems. 2021.* (CHI'21)
  Best Paper Honorable Mention Award (top 5%)

- **Eunji Park**, and Byungjoo Lee. "An Intermittent Click Planning Model.". *In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems. 2020.* (CHI'20)
  Best Paper Honorable Mention Award (top 5%)

- Byungjoo Lee, Sunjun Kim, Antti Oulasvirta, Jong-In Lee, and **Eunji Park.** "Moving Target Selection: A Cue Integration Model". *In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems. 2018.* (CHI'18)

Other publications

- **Eunji Park**, Hyunju Kim and Byungjoo Lee. "Button++: Designing Risk-aware Smart Buttons". *In Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems. 2018.* (CHI'18 Late Breaking Work)

- Hyunju Kim, **Eunji Park** and Byungjoo Lee. "A Study on the Effect of Inter Key Spacing on Typing Performance" *In Proceedings of the 2018 HCI Korea. 2018.*

Talks

UNIST CSE333 (Introduction to Human-Computer Interaction) Seminar	Jun 2023
HCI Korea Workshop (Mental Healthcare Based on Human Digital Twin)	Feb 2023
UNIST CSE333 (Introduction to Human-Computer Interaction) Seminar	May 2022
EIRIC (Electronic & Information Research Information Center) Seminar	Sep 2021

Services

Organizing

- 2019 SIGCHI Korea Local Chapter Workshop Local Co-Chair, 2020

Reviewing

- TEI'21 Work In Progress / CHI'21 Late Breaking Work / CHI'20 Late Breaking Work / CHI PLAY'19 Work In Progress / CHI'19 / CHI PLAY'20 Work In Progress / CSCW'20 Poster

Student Voulunteer

- Ubicomp'21

Teaching Experience

Teaching Assistant

- KAIST CS206 Data Structure, 2022
- KAIST CS592 Sensor Data Science, 2022
- KAIST CS206 Data Structure, 2021
- KAIST KSE531 HCI Theory & practice, 2021
- KAIST CTP404 Making Things, 2020
- KAIST CS564 Introduction to Data Analytics Using R, 2019
- KAIST GCT741 Human-Computer Interaction, 2017