



Jiyeon Shin

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LinkedIn | Homepage

Education

Seoul National University, Seoul

Sep.2023 – present

M.S. in Intelligence Computing

Cumulative GPA 3.9/4.5

Hanyang University, Seoul

Mar.2019 – Feb.2021

M.S. in Intelligence Computing

Cumulative GPA 4.5/4.5, Dean's List

Kyung Hee University, Seoul

Mar.2013 – Feb.2018

B.S. in Department of Instrument

Cumulative GPA 3.87/4.5

Work Experience

HIS Lab, Seoul National University, Seoul

Feb.2023 – present

Post Master's Research Associate

Hanyang University R&D Foundation

Jun.2021 – May.2022

Post Master's Research Associate

ImagineX Lab, Hanyang University, Seoul

Mar.2019 – Feb.2021

Full-time Research Assistant

ImagineX Lab, Hanyang University, Seoul

Aug.2018 – Feb.2019

Research Intern

Projects

ITECH(ATC+), Anyfive, HIS Lab

Sep.2023 – present

- Role of The Project Manager
- Content: Development of Framework for Heuristic Evaluation of New Business Web Platform

Seoul National University, HIS Lab

Sep.2023 – Dec.2023

- Role of Researcher
- Content: Music Emotion Recognition with Audio Characteristics and Bio-Signal Data (EEG) Study

Hyundai Motors, HIS Lab

Feb.2023 – Dec.2023

- Role of Researcher

- Content: Development of a motion sickness evaluation index and model in a electric vehicle driving environment

Hyundai Motors, Hanyang University R&D Foundation

Jun.2021 – May.2022

- Role of The Project Manager
- Content: Development of emotional solution in-vehicle environment using multisensory technology

Seongdong-gu, Seoul, Hanyang Univ. IC-PBL

Jul.2020 – Jul.2022

- Role of Team Leader, Product Manager, AR App/Web Service Platform Developer
- Content: Development of services to alleviate traffic congestion and improve visitor rates

LG, Korea Creative Content Agency(KOCCA)

Sep.2019 – Dec.2019

- Role of Academic Researcher in Service and Auditory Planning, HRI, and HCI
- Content: LG Cloi robot-based AI emotion recognition service planning and process development

Information and Communication Planning and Evaluation Institute(IITP)

May.2019 – Dec.2020

- Role of Domestic Research Project Manager, Academic Researcher
- Content: Development of an early diagnosis system (IADL-VR) based on cognitive behavior theory through evaluation of daily life performance in virtual reality

Hansol Paper Co., Ltd.,

Apr.2019 – Aug.2020

- Role of Research Assistants
- Content: Proposed new business for future manufacturing industry based on ICT technology

Individual and Team Studies

Mar.2019 – Feb.2021

- Role of HCI, Multisensory, Data Science Researcher
- Content(1): Pitch awareness serious game development personal study
- Content(2): Tracking gait and emotion correlation with music emotion
- Content(3): Effects of manipulated auditory stimulation on emotional variation and cybersickness on VR

Hyundai Motors

Sep.2018 – Dec.2018

- Role of Research Assistant, Research Intern
- Content: Development of application-based acoustic environment solution in vehicle

Codrug Academic Club, Kyung Hee University Seoul Campus

Mar.2015 – Aug.2018

- Role of The Member of Academic Club
- Content: Development of academic research and weekly sharing sessions, and team projects

Publications

Patents

▪ EMOTIONAL CARE APPARATUS AND METHOD

Publication Number : KR1020220082545

Application Date : 2022.07.05

Patent Family Members : US20240202236, CN118210468

▪ MULTISENSORY INDEX SYSTEM AND METHOD OF OPERATION THEREOF

Publication Number : KR1020220082544

Application Date : 2022.07.05

Patent Family Members : US20240008786, CN117379659

■ **APPARATUS AND METHOD FOR PROVIDING CONTENTS**

Publication Number : KR1020220177526

Application Date : 2022.12.16

Patent Family Members : US20240202236, CN118210468

Conference & Papers

- **Identifying Factors for Enhancing Usability and Satisfaction in Platform Services: A Comparative Case Study**
J.Shin, J.Bae, J.Park, H.Lyu, M.Yun, M.Yun
22nd Triennial Congress of the International Ergonomics Association (IEA 2024), 2024.08.2
- **Evaluation of Usability and Arousal Levels in Electric Vehicles Using In-Vehicle Physiological Signals; A Focus on Motion**
J.Shin, Y.Song, C.Wang, J.Park, J.Bae, J.Yang, S.Kim, S.Bahn, M.Yun
22nd Triennial Congress of the International Ergonomics Association (IEA 2024), 2024.08.2
- **Integrated Heuristic Framework for Enhancing Platform Usability**
J.Shin, J.Park, J.Bae, H.Lyu, M.Yun
22nd Triennial Congress of the International Ergonomics Association, 2024.08.25
- **Development of a model for predicting motion sickness patterns using electrocardiogram**
J.Shin, M.Yun, Y.Song, J.Bae, J.Yang
Annual Conference of KSNVE(The Korean Society for Noise and Vibration Engineering), 2024.05.25
- **Integrated Heuristic Evaluation Framework for Improving Website Usage: A Parallel Approach to Strengthening Internal Information Structure**
J.Shin, J.Park, J.Bae, H.Lyu, C.Wang, J.Lee, M.Yun
The HCI Society of Korea 2024.01.23
- **Music based multi-sensory stimulations can change our emotion more intensely than uni-sensory stimulation**
J.Shin, K.Kim, E.Cho, D.Park, E.Jeong
ICMPC17-APSCOM7, 2023.08.27

Thesis

- **Effects of manipulated auditory stimulation on emotional variation and cybersickness on VR**
M.S. thesis, Hanyang University, 2021

Awards & Honors

Ambient AI Competition at SNU & Google Coral AI team

Hosted by Seoul National University & Google Coral AI team, 2024.01

- 1st award at ambient AI model development
- <https://www.youtube.com/watch?v=2rgQlmNX4vo>

Asian Conference on Ergonomics 21st (HWWE) & BRICSplus HFE Conference

Hosted by 21st Humanizing Work and Work Environment (HWWE) & BRICSplus, 2023.12

- 3rd Prize at poster presentation

Regional-Based Multidisciplinary Project Seongdong, Seoul's Best Project Selection

Hosted by Seongdong, Seoul Office; organized by Hanyang University's IC-PBL, 2020.07

- Best Project Selection of IC-PBL, Seong-dong, Seoul
- Excellence Team in the start-up support center of the school start-up support group

Contents x Emotion Competition

Hosted, organized by KOCCA(Korea Creative Content Agency)

- Awarded in the Emotion Robot Category
- Presented as the theme of the "Multimodal AI Emotion Analysis Based YouTube Recommendation Robot"

Lecture & Teaching Activity

Audio Processing and Feature Analysis lectures

Teaching for the master's degree in the Department of Industrial Convergence at Hanyang University

- Practice Audio Data Processing and Learning Models Using Python Libraries, 2022.05.17
- Phenomenological Theories of Sound and Methods of Analyzing Unstructured Data, 2022.05.10

User Experience Design Invitation Lecture considering Technology Trends

Lecture at Hanyang University General Graduate School

- User Experience and Design Thinking that Increases the Value of Service Solutions, 2021.11.11
- The Present and Future of Realistic Multisensory Content, 21.10.14
- Trends and User Experience in Mobility Industry Technology, 21.09.30

National Performance-Sharing Meeting for the Project to Support the Revitalization of Lifelong Education in Seoul

Guest lecturer in the presentation of multidisciplinary solutions to local problems, 2021.02.23

- Introducing Trends of Domestic Venture Companies and AR Map Businesses

Languages & Skills & Interests

Korean(native), **English**(fluent), **Japanese**(beginner)

Skills

Python, Unity, R, SPSS, C++,

Interests

- Human-Computer Interaction(HCI), Multisensory, Affective Engineering, UX/UI, Audio Engineering