

RESEARCH INTERESTS

Human-AI Interaction, Social Computing, Conversational Agents, Health Communication

EDUCATION

University of Washington Ph.D., Human Centered Design & Engineering Advised by Prof. Gary Hsieh & Prof. Sean A. Munson	Seattle, WA 2023 - Present
Ewha Womans University B.S., Computer Science & Engineering, Minor in Statistics	Seoul, Korea 2019 - 2023
University of Toronto Undergraduate Exchange Program	Toronto, Canada 2021 - 2021

RESEARCH EXPERIENCES

Intentional Traces Collective Lab, University of Washington Graduate Research Assistant (PI: Prof. Sean A. Munson) <ul style="list-style-type: none">Client–Clinician Match: Explored opportunities to support clinical communication and decision-making.AI & Bibliotherapy: Investigated identity-matching interventions, focusing on the role of personal narratives and storytelling.	Jan 2024 - Present
Prosocial Computing Group, University of Washington Graduate Research Assistant (PI: Prof. Gary Hsieh) <ul style="list-style-type: none">AI Journalism & Credibility: Working on automated journalism and credibility frameworks to support scientific communication.Chatbot Personas & Credibility: Examining the effects of conversational agent design on search results.	May 2023 - Present
Dynamic Graphics Project Lab, University of Toronto Undergraduate Research Assistant (PI: Prof. Khai N. Truong) <ul style="list-style-type: none">Music Accessibility: Investigated opportunities for accessible music experiences for d/Deaf individuals using song signing.	Sep 2021 - Sep 2022
Human-Computer Interaction Lab, Ewha Womans University Undergraduate Research Assistant (PI: Prof. Uran Oh) <ul style="list-style-type: none">Voice Personas: Developed a search engine for labeled voice persona directories and a voice customization system.Language Models & Patient Data: Applied bidirectional language models to classify electronic patient text data.	Jul 2020 - Sep 2023

PUBLICATIONS

Conference Papers

- [c.2] Suhyeon Yoo, Georgianna Lin, **Hyeonjeong Byeon**, Amy Hwang, and Khai Truong. 2023. Understanding tensions in music accessibility through song signing for and with d/Deaf and Non-d/Deaf persons. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '23)*. [paper]
- [c.1] **Hyeonjeong Byeon***, Chaerin Lee*, Jeemin Lee, and Uran Oh. 2022. “A Voice that Suits the Situation”: Understanding the Needs and Challenges for Supporting End-User Voice Customization. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '22)*. [paper]

Posters and Extended Abstracts

- [p.4] **Hyeonjeong Byeon**, Seungjin Ha, and Uran Oh. 2023. AVOCUS: A Voice Customization System for Online Personas. In *Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems*. [paper]
- [p.3] **Hyeonjeong Byeon**. 2021. Voice Creator: Giving Customized Voice to the Voiceless for Online Communication. In *Proceedings of the 23rd International ACM SIGACCESS Conference on Computers and Accessibility Student Research Competition (ASSETS' SRC 21)*. [paper]
- [p.2] **Hyeonjeong Byeon**, and Uran Oh. 2021. Comparing Performance of Pre-trained Bidirectional Language Models. In *Proceedings of HCI Korea Conference 2021*. [paper]
- [p.1] **Hyeonjeong Byeon**, Soohyun Yeo, and Uran Oh. 2021. Voice Creator: A Vocal Customization Web Application Prototype. In *2021 Korea Information Processing Society Spring Conference No. 28, Vol. 1*. [paper]

GRANTS & AWARDS

Social Entrepreneurship Fellow Population Health Initiative, Leading the Virtual Study Assistant for Potential Research Participants Project	April 2025
Principal Candidate, Fulbright Graduate Student Program Award Korean-American Educational Commission, awarded up to \$80,000 for graduate studies (<i>declined</i>)	Sep 2023
Finalist, Doctoral Study Abroad Scholarship Korean Foundation for Advanced Studies (KFAS), selected as a finalist	Aug 2023
ITRC Student Creative Research Project South Korean Ministry of Science and ICT, awarded \$7,600 of research grant	March 2022 - Dec 2022
Capstone Poster Session Presentation Ewha Womans University, 2nd place in Computer Science department, co-awarded \$570	Dec 2022
SW Entrepreneurship Competition Ewha Womans University, 4th place, co-awarded \$75	Nov 2022
Google Student Travel Grants Google, awarded \$2,820 for attending ACM CHI 2022	May 2022
Ewha Future Design Scholarship Ewha Womans University, awarded \$3,240 for excellence in career path planning	Dec 2022, April 2022
3rd place (Bronze Medal), Student Research Competition ACM SIGACCESS Conference on Computers and Accessibility (ASSETS' 21) Student Research Competition, awarded \$200	Oct 2021
Presidential Science Scholarship Korea Student Aid Foundation (KOSAF), awarded cost of attendance for 2 years Additional \$2,200 per semester for academic excellence	June 2021
Best Paper Award Proceedings of HCI Korea Conference 2021, Seoul, South Korea	Jan 2021
Undergraduate Research Opportunity Program Research Grant Ewha Womans University, awarded \$250, \$450 respectively	April 2022, June 2020
HOKMA Career Path Exploration Scholarship Grant Ewha Womans University, co-awarded \$1,100 for excellence in CS career path exploration activities	Oct 2019

PATENT

Systems and Methods for Customizing Voices for Personas in Virtual Spaces Uran Oh, Hyeonjeong Byeon, Seungjin Ha, 10-2022-0179981. <i>Patent pending.</i>	Dec 2022
AVOTAR: A Voice Customization System for Online Personas Uran Oh, Hyeonjeong Byeon, Seungjin Ha, South Korea, P2022-0160KR. <i>Patent pending.</i>	Nov 2022

TEACHING EXPERIENCE

Designing For Behavior Change (HCDE 538) Graduate Teaching Assistant; facilitated design sprints	Spring 2025
Usability Studies (HCDE 517) Graduate Teaching Assistant; mentored 10 project groups through a quarter-long usability study	Winter 2025
Introduction to User Research (HCDE 313) Graduate Teaching Assistant; guided students in planning user research and writing research reports	Autumn 2024
User Experience Prototyping Techniques (HCDE 451) Graduate Teaching Assistant; created tutorial videos on prototyping techniques and provided feedback on prototyping reports	Spring 2024

SERVICE

Review Service ACM CHI (2025), ACM CHI Late-Breaking Work (2024, 2025)	2024 -
Student Admission Reviewer Participated as a student reviewer for UW HCDE Ph.D. admission	Dec 2023
Student Volunteer, The Blue Tree Foundation (NGO) Researched and translated articles about school violence and cyberbullying for campaigns	Feb 2022 - Feb 2022
Member, EDOC (Ewha DO Coding) Prepared for ACM-ICPC and participated in group study sessions focusing on data structures and algorithms	Jan 2020 - Jun 2020
Student Volunteer, Seoul Metropolitan Office of Education Taught programming to North Korean defector students as part of the “Unplugged Coding” program	Sep 2019 - Nov 2019
Member, Like Lion Completed a year-long full-stack development course. Back-end development of the university festival web application [Web Demo] (<i>closed</i>)	Mar 2019 - Dec 2019

SKILLS

Research: Empirical studies, Statistical modeling, Inferential Statistics, Survey, Prototyping
Programming: Python, C/C++, Java, HTML/CSS, JavaScript
Data analysis: R, SAS, SQL