

Hyeonjeong Byeon

hjbyeon@uw.edu | hyeonjeongbyeon.com







EDUCATION

University of Washington, Seattle, WA Ph.D., Human Centered Design and Engineering (Advisor: Profs. Gary Hsieh & Sean Munson)	Sep 2023 - Present
Ewha Womans University, South Korea B.S., Computer Science and Engineering (Minor in Statistics)	Mar 2019 - Aug 2023
University of Toronto, Canada Exchange Student	Sep 2021 - Dec 2021

RESEARCH EXPERIENCE

Prosocial Computing Group , University of Washington Graduate Research Assistant (Prof. Gary Hsieh)	May 2023 - Present
Dynamic Graphics Project Lab , University of Toronto Undergraduate Research Assistant (Prof. Khai N. Truong)	Sep 2021 - Sep 2022
Human-Computer Interaction Laboratory , Ewha Womans University Undergraduate Research Assistant (Prof. Uran Oh)	Jul 2020 - Sep 2023

PUBLICATIONS AND PRESENTATIONS

- [1] **Hyeon Jeong Byeon**, Seungjin Ha, Uran Oh. 2023. AVOCUS: A Voice Customization System for Online Personas. In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI '23 Extended Abstracts)*. 
- [2] Suhyeon Yoo, Georgianna Lin, **Hyeon Jeong Byeon**, Amy Hwang, Khai Truong. 2023. Understanding tensions in music accessibility through song signing for and with d/Deaf and Non-d/Deaf persons. In *CHI Conference on Human Factors in Computing Systems (CHI '23)*. 
- [3] **Hyeon Jeong Byeon***, Chaerin Lee*, Jeemin Lee, Uran Oh. 2022. "A Voice that Suits the Situation": Understanding the Needs and Challenges for Supporting End-User Voice Customization. In *CHI Conference on Human Factors in Computing Systems (CHI '22)*. 
- [4] **Hyeon Jeong Byeon**. 2021. Voice Creator: Giving Customized Voice to the Voiceless for Online Communication. In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility Student Research Competition (ASSETS' SRC 21)*. 
- [5] **Hyeon Jeong Byeon**, Soohyun Yeo, Uran Oh. 2021. Voice Creator: A Vocal Customization Web Application Prototype. In *2021 Korea Information Processing Society Spring Conference* No. 28, Vol. 1. 
- [6] **Hyeon Jeong Byeon**, Uran Oh. 2021. Comparing Performance of Pre-trained Bidirectional Language Models. In *Proceedings of HCI Korea Conference 2021*. 

GRANTS & AWARDS

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
Capstone Design Competition Ewha Womans University, 3rd place in College of Engineering, co-awarded \$540	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 and an additional \$2,200 per semester for academic excellence	June 2021

Best Paper Award	<i>Jan 2021</i>
Proceedings of HCI Korea Conference 2021, Seoul, South Korea	
Undergraduate Research Opportunity Program Research Grant	<i>April 2022, June 2020</i>
Ewha Womans University, awarded \$250, \$450 respectively	
HOKMA Career Path Exploration Scholarship Grant	<i>Oct 2019</i>
Ewha Womans University, co-awarded \$1,100 for excellence in CS career path exploration activities	

PATENT

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

SERVICES

Member, EDOC (Ewha DO Coding)	<i>Jan 2020 - Jun 2020</i>
Prepared for ACM-ICPC and participated in group study sessions focusing on data structures and algorithms	
Member, Like Lion	<i>Mar 2019 - Dec 2019</i>
Completed year-long full-stack development course and developed a University Festival Web application	
Student Volunteer, The Blue Tree Foundation (NGO)	<i>Feb 2022 - Feb 2022</i>
Researched and translated articles about school violence and cyber bullying for international campaigns	
Student Volunteer, Seoul Metropolitan Office of Education	<i>Sep 2019 - Nov 2019</i>
Taught programming to North Korean defector students as part of the “Unplugged Coding” program	