

Minsik Choi

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Education

Australian National University

Ph.D. Computer Science

Mar 2023 - Current

- Music and Sound Human Computer Interaction
- Sound, Music, and Creative Computing Lab, Dr. Charles Martin

Seoul National University

M.S. Industrial Engineering

Mar 2021 - Feb 2023

- Human Factors and Sound Engineering
- Center for Human Interface Systems, Dr. Myung Hwan Yun

Seoul National University

B.M. Musicology

Mar 2013 - Feb 2020

- Musicology, Music Theory, and Ethnomusicology
- Cum Laude, Dr. Eungi Min

Sunhwa Arts High School

Clarinet Performance

Mar 2010 - Feb 2013

- Claissical Music Clarinet Performance
- 1st Place in Graduation Exam, Clarinetist Jeongmin Song
- Student President and Academic Excellence Awards

Work Experience

Academic Tutor (course teaching)

Australian National University

July 2023 - Nov 2023

- Art and Interaction Computing; artistic ideation and code implementation using p5.js (S2, 2023)
- Human-Computer Interaction; human centered design process, qualitative analysis and writing (S2, 2023)

PhD Student Researcher

Sound, Music, and Creative Computing Lab

Mar 2023 - Current

- Sonic interaction design tool development with tonal music principles for practitioners as PhD stduy

Master's Student Researcher

Center for Human Interface Systems

Mar 2021 - Feb 2023

- Human Factors with Statistical Methods and Design Process; experimental/user studies through industry projects
- User Research on In-vehicle Virtual Sound as Thesis Project; experiment with 30 musicians with stat/qual analysis

Naver Music Lesson Project Manager

Korea Educational Broadcasting System

Jan 2021 - Jun 2022

- Classical Music Content Manager; designed and filmed 300 music lessons posted on Naver
- <https://tv.naver.com/snumusic>

Business Development Manager

Ailys

South Korea

Jul 2020 - Aug 2020

- Internship; machine learning solution(DAVinCI LABS) global business development
- Planning and implementation to discover partnerships in Southeast Asian countries

Business Analyst

Global Outliers

South Korea

Apr 2020 - Jun 2020

- Start-up Experience; establishing the initial direction of business
- Industry analysis, target specification, and BTL marketing planning for highend customer gathering

Teaching Assistant

Seoul National University

Sep 2019 - Dec 2021

- Human Factors; introduction and overall theoretical/methodological approaches (S2, 2021)
- Human Interface Design; design process and major user research methods (S1, 2021)
- History of Western Classical Music 2; classic and romantic periods of classical music history (S2, 2019)

Military Service

Republic of Korea Army

Dec 2017 - Aug 2019

- Educational administration officer and combat driver

Projects

Industry Projects

Human Interface Systems Lab

Sep 2021 - Jan 2023

- Minimization of infectious diseases by behavior pattern analysis, persona and observation methods, *Hyundai Motors*
- Electric vehicle charging user experience, survey and stat methods, *Pluglink*
- Auditory display usability tests for electric vehicle auditory experience, experimental and stat methods, *Hyundai MOBIS*
- Usability evaluation tool for electric vehicle virtual engine sound, design process and stat methods, *Hyundai Motors*
- Galvanic Vestibular Stimulation Device development for pilots, experimental and stat methods, *Republic of Korea Air Force*

Independent undergraduate Research

Liberal Education, Seoul National University

Sep 2016 - Dec 2016

- Application for research grant and paper writing/result presentation
- Ethnography; "A Study on Cheering as an Independent Culture: the Cheering of Korea University", Dr. Hilary Finchum-Sung

Maritime Silk Road Expedition

Gyeongsangbuk-do, Korean local government

Sep 2014 - Dec 2014

- Explored 10 silk road related historic countries/sites and participated in academic conferences
- Presentations on regional music and cultures

Clarinet Performance

Composition Presentations and Chamber Music Concerts

2013 - 2022

- 'Paris - Unwise Prince', Sungshin Women's University, 2022
- 'Reflection for 3 Clarinets in B flat', Ehwa Womans University, 2017
- 'The Last Resort', Hanyang University, 2016
- 'Chamber Music Night', Ewon Art Hall, 2013
- 'Root Woodwind Quintet Recital', Yonsei University, 2013

Achievements

2023-26	ANU PhD Scholarship , Stipend for 3.5 years, travel and removal allowances	Australia
2023-26	ANU HDR Fee Remission Merit Scholarship , Doctoral program full tuition fee waiver	Australia
2021-22	Scholarship for Next Academic Generation , Master's program full tuition fee waiver	South Korea
2017	SNU Undergraduate Independent Research Award , Research grant and Encouragement award	South Korea
2014-19	Assistant Scholarship , Admin(2014), music library(2016), teaching assistant(2019)	South Korea

Publications

JOURNAL ARTICLES

Human-centered Design in Acoustics Education for Undergraduate Music Majors

Minsik Choi, Max Kapur

The Journal of the Acoustical Society of America 151.4 (2022) pp. 2282–2289. Acoustical Society of America, 2022

Design and Evaluation of Electric Vehicle Sound Using Granular Synthesis

May Jorella Lazaro, Sungho Kim, Minsik Choi, Kichang Kim, Dongchul Park, Soyoun Moon, Myung Hwan Yun

Journal of the Audio Engineering Society 70.4 (2022) pp. 294–304. Audio Engineering Society, 2022

CONFERENCE PROCEEDINGS

Music Theoretical Approach to Auditory Interface Design: Progressive, Explainable, and Accessible

Minsik Choi

Graduate Student Symposium, Creativity and Cognition, 2023, Virtual Event

Factors Affecting Interior Acceleration Sound Preference for Electric Vehicles: a Path Analysis

May Jorella Lazaro, Sungho Kim, Adriance Wilfred Anggang, Minsik Choi, Myung Hwan Yun

Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 2022

CONFERENCE PRESENTATION

A Proposal for a Method of Auditory Interface Design Using Functional Harmony and Hierarchical Task Analysis

Minsik Choi, Donghoon Seu, Sungho Kim, Myung Hwan Yun

2022 Spring Conference on Korean Institute of Industrial Engineers, 2022