

# Minsik Choi

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## Education

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### Australian National University

Ph.D. Computer Science

Mar 2023 - Current

- Tonal Cognition in Sonic Interaction Design for Ongoing Research
- Sound, Music, and Creative Computing Lab, Supervised by Dr. Charles Martin

### Seoul National University

M.S. Industrial Engineering

Mar 2021 - Feb 2023

- Subjective Evaluation for In-Vehicle Virtual Sound for Thesis
- Center for Human Interface Systems, Supervised by Dr. Myung Hwan Yun

### Seoul National University

B.M. Musicology and Music Theory

Mar 2013 - Feb 2020

- Cum Laude, Supervised by Dr. Eungi Min

### Sunhwa Arts High School

Clarinet Performance Major

Mar 2010 - Feb 2013

- Student President and Academic Excellence Awards

## Work Experience

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### Academic Tutor (course teaching)

Australian National University

July 2023 - Current

- Art and Interaction Computing; artistic ideation and code implementation using p5.js (S2, 2023)
- Human-Computer Interaction; Introduction to HCI covering core concepts and methods (S2, 2023), (S2, 2024)

### PhD Student Researcher

Sound, Music, and Creative Computing Lab

Mar 2023 - Current

- Sonic Interaction Design Tool Development Leveraging Tonal Music Principles for Practitioners

### Master's Student Researcher

Center for Human Interface Systems

Mar 2021 - Feb 2023

- User Evaluation on In-vehicle Virtual Sound; an in-vehicle experiment with 30 musicians
- Industry Projects; user studies with human experimental and statistical methods

### 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>

### Internships

Start-up Experiences

Apr 2020 - Aug 2020

- Ailys; machine learning solution global business development in Southeast Asian countries
- Global Outliers; establishing the initial direction of a social networking service

### Teaching Assistant

Seoul National University

Sep 2019 - Dec 2021

- Human Factors; introduction to human factors involving core theories and methods (S2, 2021)
- Human Interface Design; design process for research, relevant user study methods, and interface design (S1, 2021)
- History of Western Classical Music 2; classical music history in classic and romantic periods (S2, 2019)

### Military Service

Republic of Korea Army

Dec 2017 - Aug 2019

- Combat Driver and Administrative work

## Projects

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## PhD Projects

Sound, Music, and Creative Computing Lab

Mar 2023 - Current

- Sonification and Music; systematic literature review in the intersection of sonification and music
- Tonal Cognition in Sonification; user study of practitioners lacking musical knowledge for sound design tool development

## Industry Projects

Human Interface Systems Lab

Sep 2021 - Jan 2023

- Subjective Evaluation on In-vehicle Virtual Sound, *Harman International*
- Infectious Disease Prevention in Vehicle Contexts, *Hyundai Motors*
- Electric Vehicle Charging Experience, *Pluglink*
- Auditory Display Usability Tests for Electric Vehicles, *Hyundai MOBIS*
- Usability Evaluation Tool for Virtual Engine Sound, *Hyundai Motors*
- Galvanic Vestibular Stimulation Device development for Pilots, *Republic of Korea Air Force*

## Independent Undergraduate Research

Liberal Education, Seoul National University

Sep 2016 - Dec 2016

- 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

- Voyage to 10 silk road related historic countries with participations in academic and cultural events

## Clarinet Performance

Composition Presentations and Concert Participations

2013 - 2024

- ANU Orchestra Concert, Australian National University, 2024
- 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	<b>PhD Scholarship</b> , Stipend for 3.5 years, travel and removal allowances	ANU
2023-26	<b>Fee Remission Merit Scholarship</b> , Doctoral program full tuition fee waiver	ANU
2021-22	<b>Scholarship for Next Academic Generation</b> , Master's program full tuition fee waiver	SNU
2017	<b>Undergraduate Independent Research Award</b> , Research grant and Encouragement award	SNU

## 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* (2022). 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* (2022). Audio Engineering Society, 2022

### CONFERENCE PROCEEDINGS

Subjective Perception based on Acoustical Parameters for In-Vehicle Virtual Sound

Minsik Choi, Woorchul Jung, Sungho Kim, May Jorella Lazaro, Marcin Kalinowski, Jeonghwan Lee, Soyoun Moon, Myung Hwan Yun, Grzegorz Sikora

*AES International Conference on Automotive Audio*, 2024

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

Minsik Choi

*Proceedings of the 15th Conference on Creativity and Cognition*, 2023

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