

# Minsik Choi

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## Education

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### Australian National University

Ph.D. Computer Science

Mar 2023 - Current

- Creativity Support Tool Development for Sonic Interaction Design as Ongoing Research
- Sound, Music, and Creative Computing Lab, Supervised by Dr. Charles Patrick 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

- Aily; 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
- Sonic Interaction Design with GenAI; web-based prototype for AI-powered sound design through practitioner scenarios

## 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

## Achievements

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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

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### 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

#### Scenario-Based Design to Envision How GenAI Can Support Sound Design Practices (under review)

Minsik Choi, Josh Andres, Charles Patrick Martin

*Under Review for Proceedings of the 36th Australian Computer-Human Interaction Conference*, 2024, New York, NY, USA

#### Tonal Cognition in Sonification: Exploring the Needs of Practitioners in Sonic Interaction Design

Minsik Choi, Josh Andres, Charles Patrick Martin

*Proceedings of the 19th International Audio Mostly Conference: Explorations in Sonic Cultures*, 2024, Milan, Italy

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

Minsik Choi, Woochul Jung, Sungho Kim, May Jorella Lazaro, Jeonghwan Lee, Soyoun Moon, Myung Hwan Yun

*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