

# Minsik Choi

2.33, level 2, Hanna Neumann Building, Australian National University

☎ +61439179994 | ✉ minsik.choi@anu.edu.au | 🏠 yorkcla.github.io | 🔗 linkedin.com/in/yorkcla

## Education

### Australian National University

Ph.D. Computer Science

Mar 2023 - Current

- Creativity Support Tool Development for Sonic Interaction Practitioners in HCI 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 in Human Factors Research
- Center for Human Interface Systems, Supervised by Dr. Myung Hwan Yun

### Seoul National University

B.M. Musicology and Music Theory

Mar 2013 - Feb 2020

- Ethnomusicology Focus, Cum Laude, Supervised by Dr. Eungi Min

### Sunhwa Arts High School

Clarinet Performance Major

Mar 2010 - Feb 2013

- Student President and Academic Excellence Awards

## Publications

### CONFERENCE PROCEEDINGS

A Musical Tension and Release Framework for Sonic Interaction Designers

Minsik Choi, Josh Andres, Alexander Hunter, Charles Patrick Martin

*Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, 2025, Yokohama, Japan*

GenAICHI 2025: Generative AI and HCI at CHI 2025

Michael Muller, Lydia B Chilton, Mary Lou Maher, Charles Patrick Martin, Minsik Choi, Greg Walsh, Anna Kantosalo

*Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, 2025, Yokohama, Japan*

Scenario-Based Design to Envision How GenAI Can Support Sound Design Practices

Minsik Choi, Josh Andres, Alexander Hunter, Charles Patrick Martin

*Proceedings of the 36th Australian Computer-Human Interaction Conference, 2024, Brisbane, Australia*

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, Göteborg, Sweden*

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*

### 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

*The Journal of the Audio Engineering Society (2022). Audio Engineering Society, 2022*

## Work Experience

### PhD Student Researcher

Sound, Music, and Creative Computing Lab

Mar 2023 - Current

- Sonic interaction design tool development leveraging tonal music principles and GenAI for practitioners
- Qualitative analysis (interview, focus group, thematic analysis), statistical analysis (R, Python), prototyping (JS, Figma, APIs)

Master’s Student Researcher

Center for Human Interface Systems

Mar 2021 - Feb 2023

- User Evaluation on In-vehicle Virtual Sound with Harman International; an in-vehicle experiment with 30 musicians
- Industry projects involving experiments (design, execution) and statistical methods (descriptive, inferential)

Academic Tutor (course teaching)

Australian National University

July 2023 - Current

- Human-Computer Interaction; Introduction to HCI covering core concepts and methods (S2, 2023), (S2, 2024)
- Sound and Music Computing; Introduction to computer music using pure data and strudel (S1, 2025)
- Art and Interaction Computing; artistic ideation and code implementation using p5.js (S2, 2023)

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)

Naver Music Lesson Project Manager

Korea Educational Broadcasting System [click]

Jan 2021 - Jun 2022

- Classical Music Content Manager; designed and filmed 300 music lessons posted on Naver

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 business

Projects

PhD Projects

Sound, Music, and Creative Computing Lab [click]

Mar 2023 - Current

- Framework Design with GenAI; a musical tension and release framework for sonic interaction designers
- Prototyping with GenAI; scenario-based design to envision how GenAI can support sound design practices
- Needs Finding User study; Tonal cognition in sonification: exploring the needs of practitioners in sonic interaction design
- Systematic Literature Review; musical perspectives on sonification: a systematic literature review
- Overall Research Plan; music theoretical approach to auditory interface design

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*

Undergraduate Research

Liberal Education, Seoul National University

Sep 2016 - Dec 2016

- Ethnography; A Study on Cheering Culture at Korea University, Dr. Hilary Finchum-Sung

Clarinet Performance

Composition Presentations and Concert Performances

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