

Jongik Jeon

Sonic Interaction Designer & Researcher

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Research Interest

I explore new roles of sound for interaction design by building novel sound systems. My work focuses on three main actions: creating new sounds, creating new ways to make sounds, and creating new ways to hear sounds. Ultimately, I want to expand how we think and feel through sound, especially in everyday interactions and vehicle environments.

Keywords: *Human-Computer Interaction (HCI); Sonic Interaction Design; Auditory Interface*

EDUCATION

Virginia Tech, Virginia, USA

PhD, Industrial and systems engineering

Aug 2026 -

Mind Music Machine Lab (advised by Myounghoon Philart Jeon)

KAIST, Daejeon, South Korea

MSc, Industrial design / Advisor: Chang Hee Lee

Sep 2024 - Jul 2026

Affective Systems and Cognition Lab (advised by Chang Hee Lee)

*BSc, Industrial design (**Outstanding graduate award**)*

Feb 2017 - Feb 2024

KTH Royal Institute of Technology, Stockholm, Sweden

Exchange program, school of EECS

Jan 2020 - Mar 2020

PUBLICATIONS

Sonic Being: Imagining sound as an independent entity

Jongik Jeon, Yoonji Lee, Chang Hee Lee

DIS 2026 (ACM Conference on Designing Interactive Systems)

Sprayable Sound: Exploring the Experiential and Design Potential of Physically Spraying Sound Interaction

Jongik Jeon, Chang Hee Lee

CHI 2025 (ACM Conference on Human Factors in Computing Systems)

Imagining Sonic Being: Participatory Workshop for Envisioning Sound as an Independent Entity

Jongik Jeon, Chang Hee Lee

IASDR 2025 poster (International Association of Societies of Design Research Conference)

SoundMist: Novel Interface for Spatial Auditory Experience

Jongik Jeon, Chang Hee Lee

UIST 2023 poster (ACM Symposium on User Interface Software and Technology)

Silent Suspense: Multimodal Haptics for Horror Film Experiences for Deaf and Hard-of-Hearing (DHH) Audiences

Yoonji Lee, Jongik Jeon*, Byoungjae Kim*, Gurim Kim, Geumjin Lee, Chang Hee Lee (*equally contributed)*

UIST 2025 poster (ACM Symposium on User Interface Software and Technology)

Design Exploration of Robotic In-Car Accessories for Semi-Autonomous Vehicles

Max Fischer, **Jongik Jeon**, Seunghwa Pyo, Shota Kiuchi, Kumi Oda, Kentaro Honma, Miles Pennington, Hyunjung Kim

CHI 2024 video showcase (ACM Conference on Human Factors in Computing Systems)

Design Exploration of Robotic In-Car Accessories for Semi-Autonomous Vehicles

Hyunjung Kim, Max Fischer, **Jongik Jeon**, Seunghwa Pyo, Kentaro Honma, Miles Pennington, Hailong Liu, Keisuke Shimono, Toshihiro Hiraoka

HRI 2024 late breaking reports (ACM/IEEE Conference on Human-Robot Interaction)

YM2413-MDB: A Multi Instrumental FM Video Game Music Dataset with Emotion Annotations

Eunjin Choi, Yoonjin Chung, Seolhee Lee, **Jongik Jeon**, Taegyun Kwon, Juhan Nam

ISMIR 2022 (International Symposium on Music Information Retrieval)

RESEARCH EXPERIENCE

Mind Music Machine Lab, Virginia Tech, USA

Research Assistant (RA) Aug 2026 -

Affective Systems and Cognition Lab, KAIST, South Korea

Research Assistant (RA) Jan 2023 - Jul 2026

ETRI (Electronics and Telecommunications Research Institute), South Korea

Research Assistant (RA) on project awarded by the Ministry of Science and ICT Jul 2024 - Dec 2025

DLX Design Lab, University of Tokyo, Japan

Intern Researcher Jun 2023 - Jan 2024

Music and Audio Computing Lab, KAIST, South Korea

Intern Researcher Jan 2022 - Mar 2022

SketchLab, KAIST, South Korea

Undergraduate Research Student Mar 2022 - Dec 2022

AWARDS AND HONORS

Virginia Tech Alexander Walter Scholarship Aug 2026

KAIST President’s Special Award Nov 2023

KAIST Outstanding Graduate Award in Industrial Design Dec 2022

KAIST College of Engineering Leadership Award Mar 2023

KAIST Alumni Scholarship Jan 2020

KAIST Dean’s List Dec 2019

Republic of Korea Marine Corps Best Award for Military Culture Innovation Jul 2021

ICL (Imperial College London) & KAIST Design Hackathon Runner-up Jun 2022

RELATED EXPERIENCE

Exhibiting Artist

<i>National Science Museum (Daejeon, South Korea)</i>	<i>May 2026</i>
<i>In Transition: Programmable Designs (Seoul, South Korea)</i>	<i>Dec 2025</i>
<i>Gwangju Design Biennale: You, the World (Gwangju, South Korea)</i>	<i>Aug 2025</i>
<i>Inventive Minds and Ideas: Living in the Future (Seoul, South Korea)</i>	<i>Dec 2022</i>

Academic Reviewer (* for special recognition for outstanding reviewer)

*CHI '27, '26 *; HRI '27; TEI '26, '27; IASDR '25; DIS '25*

Research Mentor

<i>Kelly Kim (VT CS undergraduate student)</i>	<i>Aug 2026 -</i>
<i>Seowon Noh (KAIST EE undergraduate student)</i>	<i>Aug 2025 -</i>

Teaching Assistant

Virginia Tech) Facilities and Logistics
KAIST) Interaction Prototyping; Graduation Design Studio II; Introduction to Design; Logical Writing

Military Service

<i>Marine Artillery, Republic of Korea 1st Marine Division</i>	<i>Jul 2020 - Jan 2022</i>
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SKILLS

Fabrication

Hardware prototyping and integration (Fusion 360); Embedded systems (Arduino, Bluno, Raspberry pi); Circuit design; 3D modeling and printing; Laser cutting; Graphical design (Figma, Illustrator)

Programming

Python; Javascript; SuperCollider; C# (Unity); HTML/CSS; Processing; Max MSP

Music

Instruments (Guitar, Piano, Bass, Harmonica); DAWs (Logic Pro, FL Studio); Jazz harmony; Improvisation; Songwriting

LANGUAGE

English (*Fluent*); **Japanese** (*Intermediate*); **Korean** (*Native*)