Zen Somei

Ph.D. Candidate

Aspiring research student focused on advancing the field of 3D User Interfaces. Leveraging experience in airborne ultrasound for creating tactile surfaces. Skilled in Unity(C#), Python, and VR development, aiming to contribute to systems that integrate seamlessly into daily life without cumbersome devices.

Contact

E-mail

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LinkedIn

www.linkedin.com/in/zen-somei

Skills

C, C++, C#, Unity, Python, VR Development, Hand Sensing, HCI, Ultrasound Manipulation.

Languages

Japanese, English, Chinese.

Interests

Haptics, VR, AR, Metaverse, Engineering, HCI, Ultrasound Technology, 3D User Interfaces.

Awards and Fellowships

2023.04 - 2025.03   **Research Fellowship for Young Scientists DC2** [Acceptance rate: 18.5 %]
Japan Society for the Promotion of Science

2022.05   **3rd place in Demo Award, Eurohaptics2022** [International]
Airborne Bumpy Surfaces Presented by Ultrasound

2021.12   **Presentation Award, SICE SI 2021** [Domestic]
Curved Surface Presentation using Airborne Ultrasound

2020.09 - Current   **International Graduate Program of Innovation for Intelligent World** [Acceptance rate: 48.1 %]
The University of Tokyo

Selected Publications and Presentations

Research Article

2021.04   **Fabrication of Eutectic Ga-In Nanowire Arrays Based on Plateau–Rayleigh Instability**
Takashi Ikuno, Zen Somei, MOLECULES, 26(15), 4616.

2025.07   **Spatial Resolution of Mesoscopic Pattern via Contact Position Control using Airborne Ultrasound**
Zen Somei, Tao Morisaki, Shun Suzuki, Yasutoshi Makino, Hiroyuki Shinoda, Transactions on Haptics [Under Review]

Conference Proceedings (Oral Presentation)

2022.05   **Spatial Resolution of Mesoscopic Shapes** [Acceptance rate: 57.0 %]
Zen Somei, Tao Morisaki, Yutaro Toide, Masahio Fujiwara, Yasutoshi Makino, Hiroyuki Shinoda, Eurohaptics 2022.

Education and Internships

2022.04 - In Progress   **Ph.D. in Complexity Science and Engineering**
The University of Tokyo

2022.10 - 2022.12   **Internship at UCL, UK**
Theme: Impact-based Ultrasound Haptics

2022.10 - 2022.12   **Internship at NEC, Japan**
Theme: Dynamic Prediction

2020.04 - 2022.03   **M.S. in Complexity Science and Engineering**
The University of Tokyo

2016.04 - 2020.03   **B.S. in Applied Electronics**
Tokyo University of Science