

Seungjae Han

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<https://stevejayh.github.io/>

EDUCATION

- 2020 – Current **KAIST**
Ph.D. Candidate in School of Electrical Engineering
 Advisor: Young-Gyu Yoon
- 2017 ~2020 **Yonsei University**
Bachelor of Science in School of Integrated Technology
 Advisor: Jiwon Seo

PREPRINTS

(*co-first authors, **co-corresponding authors)

- [1] J. Sim*, C. E Park*, I. Cho*, K. Min, M. Eom, **S. Han**, H. Jeon, H.-J. Cho, E.-S. Cho, A. Kumar, Y. Chong, J. S. Kang, K. D. Piatkevich, E. E. Jung, D.-S. Kang, S.-K. Kwon, J. Kim, K.-J. Yoon, J.-S. Lee, E. S. Boyden, Y.-G. Yoon**, J.-B. Chang**, “Nanoscale resolution imaging of the whole mouse embryos and larval zebrafish using expansion microscopy”, *bioRxiv*, 2022.

JOURNALS

(*co-first authors)

- [1] E.-S. Cho*, **S. Han***, K.-H. Lee, C.-H. Kim, Y.-G. Yoon, “3DM: Deep decomposition and deconvolution microscopy for rapid neural activity imaging”, *Optics Express*, 2021. (Editors’ Pick, Image of the Week)

INTERNATIONAL CONFERENCES

- [1] **S. Han**, E.-S. Cho., I. Park, K. Shin, Y.-G. Yoon, “Efficient Neural Network Approximation of Robust PCA for Automated Analysis of Calcium Imaging Data”, 24th *International Conference on Medical Image Computing & Computer Assisted Intervention (MICCAI)*, 2021.
- [2] **S. Han**, T. Kang, J. Seo, “Smartphone Application to Estimate Distances from LTE Base Stations Based on Received Signal Strength Measurements”, 34th *International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC)*, 2019. (Oral)
- [3] H.-S. Moon, W. Kim, **S. Han**, J. Seo, “Observation of Human Trajectory in Response to Haptic Feedback from Mobile Robot”, 18th *International Conference on Control, Automation and Systems (ICCAS)*, 2018.

DOMESTIC CONFERENCES

- [1] **S. Han**, S. Kim, J. Seo, “Machine Learning Based Sound Source Localization in the Indoor Environment”, 2019 *Korean Navigation Institute (KONI) Conference*, 2019.
- [2] S. Kim, **S. Han**, J. Seo, “Sound Source Localization in the Indoor Environment Based on Time Difference of Arrival Measurements”, 2019 *Korean Navigation Institute (KONI) Conference*, 2019.
- [3] **S. Han**, H. -S. Moon, J. Seo, “Development of Human Following Mobile Robot Utilizing Haptic Signals”, 2018 *Korean Navigation Institute (KONI) Conference*, 2018.

AWARDS & HONORS

Undergraduate Research Program (Research fund) & Best Project Award
2019, Korea Foundation for the Advancement of Science & Creativity

Short-term visiting researcher to Boğaziçi University, Turkey (Travel and lodging cost)
2019, Yonsei University

IT Consilience Creative Program (Tuition waiver & Stipend)
2017 ~ 2019, Ministry of Science, ICT and Future Planning

ACADEMIC SERVICES

MICCAI Reviewer *2022*

TEACHING EXPERIENCE

Teaching Assistant, KAIST

Special Topics in Electrical Engineering <AI Capston Design> (EE488) *Spring, 2022*

Electronics Design Lab. (EE405A) *Fall, 2021*

Basics of Artificial Intelligence (CoE202A) *Spring, 2021 & Fall, 2020*