

# Seungjae Han

[jay0118@kaist.ac.kr](mailto:jay0118@kaist.ac.kr)  
<https://stevejayh.github.io/>

## EDUCATION

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Feb. 2020 ~ Present	<b>KAIST</b> (Korea Advanced Institute of Science and Technology) School of Electrical Engineering Advisor: Young-Gyu Yoon <i>Integrated Master's &amp; Ph.D. Program</i> in School of Electrical Engineering	Daejeon, Korea
Mar. 2017 ~ Feb. 2020	<b>Yonsei University</b> School of Integrated Technology <i>Bachelor of Science</i> in School of Integrated Technology	Seoul, Korea

## JOURNALS

(\*co-first authors)

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- [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

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- [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", *24<sup>th</sup> 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", *34<sup>th</sup> 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", *18<sup>th</sup> International Conference on Control, Automation and Systems (ICCAS)*, 2018.

## DOMESTIC CONFERENCES

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- [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

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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*

## TEACHING EXPERIENCES

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### Teaching Assistant, KAIST

Special Topics in Electrical Engineering <AI Capston Design> (EE488)	<i>Spring, 2022</i>
Electronics Design Lab. (EE405A)	<i>Fall, 2021</i>
Basics of Artificial Intelligence (CoE202A)	<i>Spring, 2021 &amp; Fall, 2020</i>

## REFERENCES

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Available upon request.