

Seongmin Hong

smhongok@snu.ac.kr · smhongok.github.io · linkedin.com/in/sm-hong

I'm a Ph.D. candidate in [ICL](#) @ ECE, SNU, interested in the inversion of recent generative models and computational imaging systems such as automotive radar.

Education

Ph.D. in Electrical and Computer Engineering – Seoul National University	03 2020 — 08 2025 (expected)
Advisor: Se Young Chun	
B.S. in Electrical and Computer Engineering – Seoul National University	03 2016 — 02 2020
Mathematics and Physics – Gyeonggi Science High School for the Gifted	03 2013 — 02 2016

Publications (selected, first author)

[Adaptive Selection of Sampling-Reconstruction in Fourier Compressed Sensing](#)

Seongmin Hong, Jaehyeok Bae, Jongho Lee, Se Young Chun

Accepted to European Conference on Computer Vision (**ECCV**), 2024.

[On Exact Inversion of DPM-Solvers](#)

Seongmin Hong, Kyeonghyun Lee, Suh Yoon Jeon, Hyewon Bae, Se Young Chun

Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.

[On the Robustness of Normalizing Flows for Inverse Problems in Imaging](#)

Seongmin Hong, Inbum Park, Se Young Chun

International Conference on Computer Vision (**ICCV**), 2023.

[Neural Diffeomorphic Non-uniform B-spline Flows](#)

Seongmin Hong, Se Young Chun

Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI**, oral), 2023.

[Advanced direction of arrival estimation using step-learned iterative soft-thresholding for frequency-modulated continuous wave multiple-input multiple-output radar](#)

Seongmin Hong, Seong-Cheol Kim, Seongwook Lee

IET Radar, Sonar & Navigation, 2023.

[Radar Signal Decomposition in Steering Vector Space for Multi-Target Classification](#)

Seongmin Hong, Seongwook Lee, Byeong-Ho Lee, Jinwook Kim, Yong-Hwa Kim, Seong-Cheol Kim

IEEE Sensors Journal, 2021.

Presentations

[On the Robustness of Normalizing Flows for Inverse Problems in Imaging](#)

In 2024 SIAM Conference on Imaging Science (**SIAM IS24**), Atlanta, Georgia, U.S., May 28-31, 2024

Teaching Experience

Head TA, Signals and Systems (English Lecture)	03 2022 – 06 2022
Head TA, Seminar in Electrical and Computer Engineering 3	03 2020 – 06 2020
TA, Advanced Electromagnetics 1	03 2020 – 06 2020

Scholarship

Brain Korea 21 Four Program	03 2020 – Present
-----------------------------	-------------------

Services

Technical Research Personnel in SNU (Alternative military service)	03 2023 – 02 2025
Paper reviewers: IEEE Sensors Journal, NeurIPS 2024	since 2023