

Seongmin Hong

smhongok@snu.ac.kr · [smhongok.github.io](https://github.com/smhongok) · [linkedin.com/in/sm-hong](https://www.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
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Services

Technical Research Personnel¹ in SNU (Alternative military service)	03 2023 – 02 2025
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¹The technical research personnel system is a form of alternative military service that enables companies (research institutes) designated by the commissioner of the Military Manpower Administration to utilize research personnel for the advancement of science and technology in Korea.

Technical Research Personnel² in a designated company or research institute 09 2025 – 08 2026 (expected)
Journal reviewers: IEEE Sensors Journal 2023

²In my case, I am required to serve in the designated company (or research institute) for one year starting from September 2025 to fulfill my military service obligations.