

Seongmin Hong

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I'm a Ph.D. candidate in ECE SNU, interested in the inversion of generative models and computational imaging.

Education

Ph.D. in Electrical and Computer Engineering – Seoul National University 03 2020 — 02 2026 (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)

[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), 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.

Preprints (selected, first author)

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

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

arXiv:2311.18387, 2023.

Invited Talks

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

In 2024 SIAM Conference on Imaging Science Minisymposium: Recent Strides in Deep Inverse Problems: From PDEs/ODEs, Neural Implicit Representations, and Beyond.

Services

[Technical Research Personnel](#)¹ in SNU (Alternative military service) 03 2023 – 02 2025

[Technical Research Personnel](#)² in a designated company or research institute 03 2026 – 02 2027 (expected)

Journal reviewers: IEEE Sensors Journal 2023

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.

²In my case, I am required to serve in the designated company (or research institute) for one year starting from March 2026 to fulfill my military service obligations.