

# Seongmin Hong

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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

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<b>Ph.D.</b> in Electrical and Computer Engineering – Seoul National University	03 2020 — 08 2025 (expected)
Advisor: Se Young Chun	
<b>B.S.</b> 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 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

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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

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Brain Korea 21 Four Program	03 2020 – Present
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## Services

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<a href="#">Technical Research Personnel</a> <sup>1</sup> in SNU (Alternative military service)	03 2023 – 02 2025
<a href="#">Technical Research Personnel</a> <sup>2</sup> in a designated company or research institute	09 2025 – 08 2026 (expected)
Journal reviewers: IEEE Sensors Journal	2023

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<sup>1</sup>The 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.

<sup>2</sup>In 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.