

# MYUNGSEO SONG

micmic123@snu.ac.kr ◊ Google Scholar ◊ Personal Website

## EDUCATION

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### Seoul National University

B.S. in Computer Science and Engineering

Mar 2018 - Feb 2026

Seoul, Korea

\* Includes three-year mandatory military service in South Korea.

## PUBLICATIONS

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(*Equal contribution is denoted by “\*”.*)

- [1] **Myungseo Song**, Jin-Woo Park, Jong-Seok Lee, “Exploring the Camera Bias of Person Re-identification,” *International Conference on Learning Representations (ICLR)*, 2025. ([Spotlight paper](#), [Accept. rate < 5%](#))
- [2] **Myungseo Song**, Jinyoung Choi, Bohyung Han, “A Training-Free Defense Framework for Robust Learned Image Compression,” *arXiv Preprint*, 2024.
- [3] \*Seongyeon Park, \***Myungseo Song**, Bohyung Kim, Tae-Hyun Oh, “Unsupervised Pre-training for Data-Efficient Text-to-Speech on Low Resource Languages,” *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.
- [4] \***Myungseo Song**, \*Seongyeon Park, Bohyung Kim, Tae-Hyun Oh, “Speech De-warping: Unsupervised Pre-training for Data-Efficient Text-to-Speech on Low Resource Languages,” *International Conference on Machine Learning (ICML) Workshop on Machine Learning for Audio Synthesis*, 2022. ([Oral presentation](#))
- [5] **Myungseo Song**, Jinyoung Choi, Bohyung Han, “Variable-Rate Deep Image Compression through Spatially-Adaptive Feature Transform,” *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021.

## RESEARCH EXPERIENCE

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### Lead Machine Learning Researcher

mAy-I, Inc.

Nov 2023 - May 2025

Seoul, Korea

- Researched spurious correlations, domain generalization, and unsupervised domain adaptation of person re-identification (ICLR 2025 Spotlight).
- Improved person re-identification performance by 29.2% mAP in real-world settings and built large-scale datasets with over 10,000 individuals.
- Promoted within one year to lead research team of five members, directing projects on object detection, multi-camera tracking, and gender/age estimation for CCTV-based visitor analytics product.

### Machine Learning Researcher

CNAI, Inc.

Oct 2021 - Oct 2023

Seoul, Korea

- Proposed self-supervised learning and data augmentation methods for label-efficient text-to-speech (TTS) (ICMLW 2022 Oral, ICASSP 2023).
- Developed audio-driven talking face generation models and built large-scale speech video datasets.
- Developed monocular 3D object detection models and built large-scale 3D food detection datasets.

- Undergraduate Researcher** Sep 2020 - Sep 2021  
Computer Vision Lab at Seoul National University Seoul, Korea
- Advisor: Prof. Bohyung Han.
  - Proposed variable-rate learned image compression framework conditioned on per-pixel importance map, enabling training-free task-aware compression (ICCV 2021).
  - Analyzed adversarial robustness of learned image compression and proposed training-free defense method (preprint).

- Research Intern** Jul 2020 - Aug 2020  
NCSOFT, Inc. Seongnam, Korea

- Developed few-shot, unsupervised image-to-image translation models.

- Undergraduate Researcher** Mar 2020 - Jun 2020  
Data Mining Lab at Seoul National University Seoul, Korea
- Advisor: Prof. U Kang.
  - Developed multi-behavior sequential recommender system for E-commerce.

## SCHOLARSHIPS

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- Youlchon AI Young Researcher (\$6000)**, Youlchon Foundation & SNU AI Institute Aug 2025  
**Jung-Hun Scholarship**, Jung-Hun Foundation Apr 2019

## SKILLS

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**Programming Languages:** Python, Java, C/C++

**Deep Learning Frameworks:** PyTorch, TensorFlow

**Libraries & Tools:** Numpy, OpenCV, Open3D, Pandas, Git, Docker

**Languages:** English (Fluent, TOEFL score: 101), Korean (Native)

## ACADEMIC SERVICE

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### Reviewer

- Journal: TIP (2023)
- Conference: ICLR (2025), NeurIPS (2024, 2025), WACV (2023)