

# Youngmin Oh

PhD student in the Computer Vision Lab at Yonsei University

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Google Scholar: [Link](#)

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## RESEARCH INTERESTS

### Machine Learning and Computer Vision

- Vision & Language Models (*e.g.*, Multimodal Large Language Models)
- Data-Efficient Learning (*e.g.*, Weakly-Supervised Learning, Few-/Zero-Shot Learning, and Continual Learning)
- Image & Video Segmentation
- Neural Architecture Search

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## EDUCATION

**Yonsei University** (Mar. 2019 – Present)

**Ph.D. student**

*Advisor:* Prof. Bumsub Ham

**Yonsei University** (Mar. 2013 – Feb. 2019)

**B.S.** in Electrical and Electronic Engineering

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## PUBLICATIONS

\* indicates equal contribution.

1. Jeimin Jeon, **Youngmin Oh**, Junghyup Lee, Donghyeon Baek, Dohyung Kim, Chanho Eom, Bumsub Ham, “Subnet-Aware Dynamic Supernet Training for Neural Architecture Search”, *IEEE Computer Vision and Pattern Recognition (CVPR)*, 2025.
2. **Youngmin Oh**, Hyunju Lee, Bumsub Ham, “Efficient Few-Shot Neural Architecture Search by Counting the Number of Nonlinear Functions”, *AAAI Conference on Artificial Intelligence (AAAI)*, 2025.
3. Byungwan Son, **Youngmin Oh**, Donghyeon Baek, Bumsub Ham, “FYI: Flip Your Images for Dataset Distillation”, *European Conference on Computer Vision (ECCV)*, 2024.
4. Sanghoon Lee, **Youngmin Oh**, Donghyeon Baek, Junghyup Lee, Bumsub Ham, “PLoPS: Localization-aware Person Search with Prototypical Normalization”, *Pattern Recognition (PR)*, 2024.
5. Hyekang Park, Jongyoun Noh, **Youngmin Oh**, Donghyeon Baek, Bumsub Ham, “ACLS: Adaptive and Conditional Label Smoothing for Network Calibration”, *IEEE International Conference on Computer Vision (ICCV)*, 2023. (Oral)
6. **Youngmin Oh**, Donghyeon Baek, Bumsub Ham, “ALIFE: Adaptive Logit Regularizer and Feature Replay for Incremental Semantic Segmentation”, *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
7. Donghyeon Baek, **Youngmin Oh**, Sanghoon Lee, Junghyup Lee, Bumsub Ham, “Decomposed Knowledge Distillation for Class-Incremental Semantic Segmentation”, *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.
8. Sanghoon Lee, **Youngmin Oh**, Donghyeon Baek, Junghyup Lee, Bumsub Ham, “OIMNet++: Prototypical Normalization and Localization-aware Learning for Person Search”, *European Conference on Computer Vision (ECCV)*, 2022.
9. **Youngmin Oh\***, Donghyeon Baek\*, Bumsub Ham, “Exploiting a Joint Embedding Space for Generalized Zero-Shot Semantic Segmentation”, *IEEE International Conference on Computer Vision (ICCV)*, 2021.
10. **Youngmin Oh**, Beomjun Kim, Bumsub Ham, “Background-Aware Pooling and Noise-Aware Loss for Weakly-Supervised Semantic Segmentation”, *IEEE Computer Vision and Pattern Recognition (CVPR)*, 2021.

## EXPERIENCES

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### - Industry

**NEC Labs**, San Jose, USA (Jun. 2023 – Sep. 2023)  
Research Intern (Mentor: Yumin Suh)

### - Academia

**Queen Mary University of London**, London, UK (Aug. 2024 – Nov. 2024)  
Visiting Student (Mentor: Changjae Oh)

### - Peer-review Activity

CVPR 2020,2021,2023,2025  
ECCV 2020  
ICCV 2019,2021,2023  
NeurIPS 2020,2021,2022  
AAAI 2022  
PAMI 2022  
IJCV 2020,2021,2022

### - Teaching Assistant

Deep Learning Lab (2022-1)  
Signal Processing Lab (2020-1)  
Data Structure and Algorithms (2019-1)  
Engineering Information Processing (2018-2)

## PROJECTS

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**Development of Fundamental Technology and Integrated Solution  
for Next-Generation Automatic Artificial Intelligence System** (Apr. 2022 – Present)  
Institute for Information & Communications Technology Promotion (IITP)

**FlexNet: Overcoming Limitations of Deep Learning  
for Flexible Semantic Image Segmentation** (Sep. 2019 – Feb. 2022)  
National Research Foundation of Korea (NRF)