Sohyun**Lee**

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EDUCATION

POSTECH | *Integrated M.S. · Ph.D.* **Sep. 2020 – Present**
- Graduate School of Artificial Intelligence
- Supervised by Prof. Suha Kwak in the Computer Vision Lab.

POSTECH | *B.S.* **March 2015 – Aug. 2020**
- Mechanical Engineering

EXPERIENCE

Undergraduate Intern | *Innovative Medical Solution Lab, POSTECH* **June 2019 – Sep. 2019**
- Researched on mental stress detection.

Undergraduate Intern | *Industrial AI Lab, POSTECH* **June 2018 – June 2019**
- Researched on lesion detection in capsule endoscopy.

Engineering Intern | *Doosan Heavy Industries* **June 2017 – July 2017**
- Designed a gas turbine compressor.

PUBLICATIONS

[1] Sehyun Hwang, **Sohyun Lee**, Hoyoung Kim, Minhyeon Oh, Jungseul Ok, and Suha Kwak
Active Learning for Semantic Segmentation with Multi-class Label Query
Conference on Neural Information Processing Systems (**NeurIPS**), 2023

[2] **Sohyun Lee***, Jaesung Rim*, Boseung Jeong, Geonu Kim, ByungJu Woo, Haechan Lee, Sunghyun Cho, and Suha Kwak (*equal contribution)
Human Pose Estimation in Extremely Low-light Conditions
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023

[3] Sehyun Hwang, **Sohyun Lee**, Sungyeon Kim, Jungseul Ok, and Suha Kwak
Combating Label Distribution Shift for Active Domain Adaptation
European Conference on Computer Vision (**ECCV**), 2022

[4] **Sohyun Lee**, Taeyoung Son, and Suha Kwak
FIFO: Learning Fog-invariant Features for Foggy Scene Segmentation
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022
(**Best Paper Finalist, Oral Presentation**)

[5] Juwon Kang, **Sohyun Lee**, Namyup Kim, and Suha Kwak
Style Neophile: Constantly Seeking Novel Styles for Domain Generalization
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022

ACADEMIC SERVICES

- **Journal Reviewer**: TPAMI
- **Conference Reviewer**: ICLR (2024), NeurIPS (2023), ICCV (2023), CVPR (2022-2024), ECCV (2022-2024), WACV (2023)

INVITED TALK

- *FIFO: Learning Fog-invariant Features for Foggy Scene Segmentation*, Vision for all Seasons workshop in CVPR, New Orleans, 2022

HONORS & AWARDS

- **CVPR Best Paper Finalist**, 2022
  - Awarded to Top 0.4% (33 of 8161 papers)
  - FIFO: Learning Fog-invariant Features for Foggy Scene Segmentation
- **Qualcomm Innovation Fellowship Winner (3 times)** , Qualcomm Korea Corp., 2022
  - FIFO: Learning Fog-invariant Features for Foggy Scene Segmentation (CVPR 2022, Best Paper Finalist)
  - Style Neophile: Constantly Seeking Novel Styles for Domain Generalization (CVPR 2022)
  - Combating Label Distribution Shift for Active Domain Adaptation (ECCV 2022)
- **Excellence Prize at BK21 Best Paper Award**, POSTECH GSAI, 2024
- **POSTECHIAN fellowship awards**, POSTECH, 2023
- **Excellence Award at 3rd POSTECH Research Performance Contest**, POSTECH, 2023
- **Grand Prize at BK21 Best Paper Award**, POSTECH GSAI, 2023
- **Gold Prize at IPIU Best Paper Award**, 2022
- **POSTECH Creative Self-Research Scholarship**, 2020

PRESS

- April 28, 짙은 안개 껴도 사람·사물 뚜렷이 식별하는 AI 개발, 동아사이언스
- April 28, 짙은 안개 속에서도 외부환경 정확히 인식하는 AI 개발, 매일경제
- April 28, 한치 앞도 안 보이는 안개 속에서도 문제없는 자율주행차 나온다, 서울신문
- April 28, 자율주행車 상용화 앞당긴다…포스텍 연구진, 안개에도 정확한 영상인식 AI기술 개발, 영남일보
- April 28, 포스텍 곽수하 교수팀 안개 낀 날에도 정확히 동작하는 영상인식 AI 기술 개발, 뉴스1
- April 28, 안개 낀 날씨에도 정확히 작동 영상인식 AI 개발, YTN사이언스