Nayeong Kim

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Cheongam-Ro 77, POSTECH, Pohang-Si, Republic of Korea (37673)

EDUCATION

POSTECH Pohang, Republic of Korea

Ph.D. in Computer Science and Engineering (Unified master's and doctor's course)

Sep. 2017 - current

- Supervised by Prof. Suha Kwak in the Computer Vision Lab.
- Research Interest: Algorithmic fairness and Debiasing

POSTECH Pohang, Republic of Korea

B.S. in Computer Science and Engineering

Mar. 2013 - Aug. 2017

PUBLICATION

- [1] Nayeong Kim, Juwon Kang, Sungsoo Ahn, Jungseul Ok, Suha Kwak. "Removing Multiple Biases through the Lens of Multi-task Learning", ICML workshop on Spurious Correlations, Invariance, and Stability (SCIS), 2023.
- [2] Juwon Kang, **Nayeong Kim**, Donghyeon Kwon, Jungseul Ok, Suha Kwak. "Leveraging Proxy of Training Data for Test-Time Adaptation", International Conference on Machine Learning (**ICML**), 2023.
- [3] Nayeong Kim, Sehyun Hwang, Sungsoo Ahn, Jaesik Park, Suha Kwak, "Learning Debiased Classifier with Biased Committee", Conference on Neural Information Processing Systems (NeurIPS), 2022.
- [4] Nayeong Kim, Suha Kwak. "Robust Crowd Counting via Image Enhancement and Dynamic Feature Selection", British Machine Vision Conference (BMVC), 2021.
- [5] Nam Hyeon-Woo, Moon Ye-Bin, Wonseok Choi, **Nayeong Kim**, Suha Kwak, Tae-Hyun Oh. "Exploiting Synthetic Data for Data Imbalance Problems: Baselines from a Data Perspective", under reviewed, 2023.

Awards

K21 Best Paper A	ward from	POSTECH CS	E. "Learning	Debiased Clas	cifior with Ri	ased Committee	' 2023

Reviewing services

AAAI Conference on Artificial Intelligence (AAAI)	2024
Winter Conference on Applications of Computer Vision (WACV)	2024
Conference on Neural Information Processing Systems (NeurIPS)	2023
International Conference on Computer Vision (ICCV)	2023
Tiny Papers at International Conference on Learning Representations (ICLR)	2023
International Conference on Machine Learning (ICML)	2022

Talks

"Learning Debiased Classifier with Biased Committee", Korean Artificial Intelligence Association Fall conference, NAVER and KAIA, Nov. 2022

TEACHING EXPERIENCE

Teaching Assistant, DeepLearning, POSTECH	Mar. 2020 - Jun. 2020
Teaching Assistant, DeepLearning:NUGU-based AI Tech&Serv., POSTECH	Sep. 2018 - Dec. 2018
Teaching Assistant, Machine Learning Course, SK Hynix	Aug. 2018 - May. 2019
Teaching Assistant, Deep Learning Course, POSCO Group	May. 2018 - Jul. 2019
Teaching Assistant, Introduction to Machine Learning, POSTECH	Mar. 2018 - Jun. 2018
Teaching Assistant, Machine Learning Course, Samsung	Feb. 2018 - Mar. 2019
Teaching Assistant, AI Job Training Course, POSTECH Institute of AI	Dec. 2017 - Apr. 2019

WORK EXPERIENCE

Research Intern at Samsung Electronics	Jan. 2018 - Feb. 2018
Research Intern at Exem	Mar 2017 - Sep. 2017
Undergraduate Intern at POSTECH Machine Learning Group	Mar. 2016 - Aug. 2017

COLLABORATION PROJECTS

Electronics and Telecommunications Research Institute (ETRI)

May. 2020 – Present

• Adaptive AI for Robots. Developed neural networks for crowd recognition in single image.

POSCO group

Sep. 2018 – Sep. 2019

• Anomaly detection for information leakage according to external intrusion attack using deep neural networks

Samsung Electronics

Jan. 2018 - Jul. 2018

• Developing abnormal signal detection algorithm for semiconductor process equipment using recurrent neural network