

Yoon Gyo Jung

COMPUTER VISION/MACHINE LEARNING · RESEARCHER/ENGINEER

Boston, Massachusetts, United States

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Education

Northeastern University

PH.D. IN COMPUTER ENGINEERING

Boston, Massachusetts, U.S.

Sep. 2021 - Current

Yonsei University

M.S. IN ELECTRICAL AND ELECTRONIC ENGINEERING

- GPA: 4.11/4.3 (Yonsei University)

Seoul, South Korea

Sep. 2018 - Aug. 2020

University of California, Irvine, U.S

EXCHANGE STUDENT

- GPA: 3.52/4.0 (University of California, Irvine)

Irvine, California

Sep. 2016 - June. 2017

Yonsei University

B.S. IN ELECTRICAL AND ELECTRONIC ENGINEERING

- GPA: 3.49/4.3 (Yonsei University)

Seoul, South Korea

Mar. 2012 - Aug. 2018

Honors & Awards

HONORS

- 2013 **Honors Student**, Yonsei University
- 2017 **Dean's Honor List**, UC Irvine
- 2017 **Dean's Honor List**, UC Irvine

SCHOLARSHIPS

- 2012 **Entrance Scholarship**, Korea Scholarship Aid Foundation
- 2013 **Entrance Scholarship**, Korea Scholarship Aid Foundation
- 2013 **Honors Student Scholarship**, Yonsei University
- 2016 **Entrance Scholarship**, Korea Scholarship Aid Foundation
- 2017 **Entrance Scholarship**, Korea Scholarship Aid Foundation
- 2018 **Entrance Scholarship**, Korea Scholarship Aid Foundation

Skills and Languages

Programming Python, C++, Matlab

Frameworks Pytorch

Languages Korean (native), English (professional), Japanese (beginning)

Qualifications OPIC (English, AL), TOEFL (English, 99)

Experience

Robust System Lab, Northeastern University

RESEARCH ASSISTANT

- Research Topic : Deepfake Detection

Boston, United States

Jan. 2022 - Current

Computer Vision Team, NHH

MACHINE LEARNING RESEARCHER

- Research Topic : OCR Detection/Recognition

Seongnam-si, South Korea

Jan. 2021 - Jul. 2021

Multimedia Security Lab, Yonsei University

RESEARCH ASSISTANT

- Research Topic : Face to Periocular(region near eyes) Cross-modal Knowledge Distillation

Seoul, South Korea

Mar. 2019 - Dec.2020

Yonsei University

TEACHING ASSISTANT

- TA of Neural Network (EEE7501) spring 2020
- TA of Introduction to Artificial Intelligence (EEE3414) fall 2019
- TA of Digital Logic Circuits (EEE2040) spring 2019

Seoul, South Korea

Mar. 2019 - Jun. 2020

UC Irvine Computational Vision Lab

RESEARCH ASSISTANT

- Research assistant of extending "Cross-domain Forensic Shoeprint Matching" by using shoesole dataset

Irvine, California, U.S

Jun. 2017 - Jan. 2018

Seoul Metropolitan Police Agency

EMBASSY GUARD

- Security guard for 119 diplomatic facilities in South Korea

Seoul, South Korea

Jan. 2014 - Oct. 2015

Projects

ONR Adversarial Attack Detection Project

Jan. 2022 - Current

Korean OCR Detector Development

Jan. 2021 - Jul. 2021

Safe and Efficient Large Capacity Open Set Face Recognition in the Wild with Soft Biometric

Mar. 2019 - Jun. 2020

Extending Forensic Shoeprint Matching to Shoesole Matching of UCI Computational Vision Lab

Jun. 2017 - Jan. 2018

Publications

Jung, Yoon Gyo, Jaewoo Park, Cheng Yaw Low, Jacky Chen Long Chai, Leslie Ching Ow Tiong, and Andrew Beng Jin Teoh. "Periocular Embedding Learning with Consistent Knowledge Distillation from Face." Under Review

Park, Jaewoo, **Yoon Gyo Jung**, and Andrew Beng Jin Teoh. "Discriminative Multi-level Reconstruction under Compact Latent Space for One-Class Novelty Detection." 2020 25th International Conference on Pattern Recognition (ICPR 2020). (oral)

Jung, Yoon Gyo, Cheng Yaw Low, Jaewoo Park, and Andrew Beng Jin Teoh. "Periocular Recognition in the Wild With Generalized Label Smoothing Regularization." IEEE Signal Processing Letters 27 (2020): 1455-1459.

Jaewoo Park, **Yoon Gyo Jung**, Andrew Teoh. "Revisiting ImprovedGAN with Metric Learning for Semi-Supervised Learning." 2020 25th International Conference on Pattern Recognition (ICPR 2020)

Professional Activities

2021 : IEEE TIP, IEEE KDD reviewer