Wonho Bae

Researcher in Computer Vision

CONTACT

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Linkedin.com/in/wonho-bae in

EDUCATION

2018 - Present

Master's / Computer Science
Univ of Massachusetts, Amherst

2013 - 2017

Bachelor / Statistics
Univ of California, Berkeley

2011 - 2013

Associate / Economics
Santa Monica College

Courseworks

Computer Vision / Optimization
Neural Network / Statistical ML
Probabilistic Graphical Model
AI / Stochastic Process

KEY SKILLS

Python / R / Java
Tensorflow / Pytorch
PostgreSQL

AWARDS

2011-2012

1st and 3rd places
American Math Competitions

PROFILE

Research enthusiast with a focus on computer vision, specifically for self, semi and weakly supervised learning in object detection framework. Currently pursuing master's degree in Computer Science at UMass and actively conducting a research on weakly supervised object localization task. Looking for a PhD position for Fall 2020.

PROFESSIONAL EXPERIENCE

Feb 2018 - Present

Research Intern
Computer Vision Lab at Seoul National University

- Supervisor: Prof. Gunhee Kim
- Conducted a research on small object detection using Generative Adversarial Network in Faster R-CNN framework.
- Conducted a research class activation map for weakly-supervised object localization. Submitted to CVPR 2020.

May 2019 – Aug 2019

Research Fellow
Data Science for Common Good Fellowship at UMass

- Supervisor: Dr. Brant Cheikes, Prof. Matthew Rattigan
- Conducted a research on classifying wild animal images collected using camera traps in collaboration with The Nature Conservancy. Deployed a web-based open-source tool for ecologists.

Jan 2017 – Dec 2017

Research Assistant
Renewable & Appropriate Energy Lab at UC Berkeley

- Supervisor: Prof. Daniel Kammen, Prof. Deborah Sunter
- Participated in the Inclusive Green Growth project. Worked on keyword detection task using natural language process techniques to replace synonyms and pronouns in the text. Currently writing a book to publish.

Publications

- *Rethinking Class Activation Maps for Weakly Supervised Object Localization*, **Wonho Bae***, Junhyug Noh*, Gunhee Kim, submitted to CVPR 2020.
- *Better to Follow, Follow to be Better: Towards Precise Supervision of Feature Super-Resolution for Small Object Detection*, Junhyug Noh, **Wonho Bae**, Wonhee Lee, Jinhwan Seo and Gunhee Kim, ICCV 2019