Wonjoon Goo

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★ http://dev.wonjoon.me

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Research Interest

Reinforcement Learning, Learning from Demonstration, Computer Vision, and Robotics

Education

Ph.D. in Computer Science

Aug.2016-Current (Expected Graduation: Fall 22)

University of Texas at Austin Advisor: Prof. Scott Niekum

Master in Computer Science

Aug.2016-Dec.2018

University of Texas at Austin

GPA 4.0/4.0

B.S. in Computer Science and Engineering (Summa Cum Laude, 3/56)

Mar.2008-Feb.2016

Seoul National University

GPA 4.03/4.3 GPA in major 4.07/4.3

Exchange Student in Computer Science Dept.

Sep.2014-Dec.2014

University of Toronto GPA in major 4.0/4.0

Work and Research Experience

Research Intern May.2021-Aug.2021

Naver Clova AI Research, Seongnam, Korea

Advisor: Prof. Joseph Lim and Dr. Minsuk Chang

• Topic: Offline RL

Research Intern May.2018-Aug.2018

Preferred Networks, Tokyo, Japan

Advisor: Dr. Tommi Kerola and Toru Ogawa

• Topic: Video Object Segmentation (VOS)

Ranked 4th place on the 1st large-scale video object segmentation challenge

Lead Web Programmer

Apr.2016-Jun.2016

Art247, Paju, Korea

• Developed a commercial website using Django web framework

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Site link: https://m314.kr (currently unavailable)

Undergraduate Research Intern

Mar.2015-Apr.2016

Vision & Learning Laboratory, Seoul National University

Advisor: Prof. Gunhee Kim

• Worked on integrating external information, such as a taxonomy graph, to CNN architecture (see Publications below)

Collaborated with Prof. Sung Ju Hwang at Ulsan National Institute of Science and Technology

Worked on active exploration policy learning for robot vision
 Collaborated with Prof. Jehee Lee at Seoul National University

Lead Server Programmer (as an alternative military service)

Dec.2010-Jan.2014

Ani-Park, Seoul, Korea

- Developed a distributed game server in C++
- Maintained RDBMS with SQL
- Developed a web interface that can control servers and clients using Node.js

Summer Engineering Intern

Jun.2010-Aug.2010

Redduck, Seoul, Korea

• Implemented a PID controller for an autonomous driving car in Unreal Engine

Publications

International Conferences

- 1. **Wonjoon Goo** and Scott Niekum. *You Only Evaluate Once a Simple Baseline Algorithm for Offline RL*. Conference on Robot Learning (CoRL). London, UK, 2021.
- 2. Farzan Memarian*, **Wonjoon Goo***, Rudolf Lioutikov, Ufuk Topcu, and Scott Niekum (*equal contribution). *Self-Supervised Online Reward Shaping in Sparse-Reward Environments*. International Conference on Intelligent Robots and Systems (IROS). Online, 2021.
- 3. Daniel Brown, **Wonjoon Goo**, and Scott Niekum. *Better-than-Demonstrator Imitation Learning via Automatically-Ranked Demonstrations*. Conference on Robot Learning (CoRL). Osaka, Japan, 2019.
- 4. Daniel Brown*, **Wonjoon Goo***, Prabhat Nagarajan, and Scott Niekum (*equal contribution). *Extrapolating Beyond Suboptimal Demonstrations via Inverse Reinforcement Learning from Observations*. International Conference on Machine Learning (ICML). Long Beach, CA, 2019.
- 5. Wonjoon Goo and Scott Niekum. One-Shot Learning of Multi-Step Tasks from Observation via Activity Localization in Auxiliary Video. International Conference on Robotics and Automation (ICRA). Montreal, Canada, 2019.
- 6. Wonjoon Goo, Juyong Kim, Gunhee Kim, and Sung Ju Hwang. *Taxonomy-Regularized Semantic Deep Convolutional Neural Networks*. European Conference on Computer Vision (ECCV). Amsterdam, The Netherlands, 2016.

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Preprints

1. **Wonjoon Goo** and Scott Niekum. *Local Nonparametric Meta-Learning*. arXiv:2002.03272, February 2020.

Workshops

1. Wonjoon Goo and Scott Niekum. You Only Evaluate Once — a Simple Baseline Algorithm for Offline RL. Neural Information Processing Systems (NeurIPS) workshops on Offline Reinforcement Learning (Offline RL), 2020.

Honors and Awards

Graduate Dean's Prestigious Fellowship Supplement, UT Austin

2017-2020

Kwanjeong Educational Foundation Fellowship

2016-2020

NVIDIA Deep Learning Contest 2016 (Korea)

2016-2020

Oct. 2016

2016-2020

Oct. 2016

2016-2020

Austional Place in Free Topic

Excellent CSE Thesis Awards, Seoul National University

2016

National Scholarship for Science and Engineering

2008-2010, 2014

Full tuition & fees during regular college years, funded by Korea Student Aid Foundation

• \$2,000 from Office of International Affairs

2014 Fall

Teaching Experience & Extracurricular Activities

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Graduate Teaching Assistant, UT Austin

Outgoing Exchange Student Scholarship

Fall, 2019

• CS 394R, Reinforcement Learning: Theory and Practice

Graduate Teaching Assistant, UT Austin

Fall, 2016

• CS 313E, Elements of Software Design

Samsung Convergence Software Course (SCSC) Mentoring Program

Mar.2015-Dec.2015

• Selected as a mentor to help students coming for double major in CSE

Skills

Programming Language / Library

Python, C++, SQL, Matlab, NoSQL (mongodb), Javascripts Tensorflow, Chainer, Caffe Vim, CUDA, Scala (Interested)

Last updated: February 3, 2022