

# Wonjoon Goo

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## Research Interest

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Computer Vision, Reinforcement Learning, Robotics, and Machine Learning

## Education

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Ph.D. in Computer Science Aug.2016-Current  
University of Texas at Austin

B.S. in Computer Science and Engineering (Summa Cum Laude, 1/38) 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 Experiences

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**Graduate Research Assistant** Jan.2017-Current  
Personal Autonomous Robotics Lab, University of Texas at Austin  
Advisor : Prof. Scott Niekum

- Working on a video understanding problem which can be used as a bootstrapping method for video demonstrations. The method I used for this problem includes CNN, Triplet Siamese Network, and Generative Adversarial Network.

**Lead Web Programmer** Apr.2016-Jun.2016  
Art247, Paju, Korea

- Developing commercial website with Django web framework  
Site link : <https://m314.kr>

**Undergraduate Research Intern** Mar.2015-Apr.2016  
Vision&Learning Laboratory, Seoul National University  
Advisor : Prof. Gunhee Kim

- Improving CNN performance using external information such as taxonomy  
Collaborated with Sung Ju Hwang in Ulsan National Institute of Science and Technology
- Developing a motion planning algorithm in a humanoid robot using deep learning  
Collaborated with Jehee Lee in Seoul National University

**Lead Server Programmer**

Dec.2010-Jan.2014

Ani-Park, Seoul, Korea

- Developing a distributed game server software with C++
- Maintaining RDBMS for game data with SQL
- Developing a web interface for managing clients with Node.js
- Served as an alternative military service agent

**Summer Programming Intern**

Jun.2010-Aug.2010

Redduck, Seoul, Korea

- Implementing game logic using Unreal Engine

**Honors and Awards**

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Graduate Dean's Prestigious Fellowship Supplement, UT Austin	2017-2018
Kwanjeong Educational Foundation Fellowship	2016-2020
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	
Outgoing Exchange Student Scholarship	2014 Fall
• \$2000 from Office of International Affairs	

**Teaching Experiences**

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Graduate Teaching Assistant at UT Austin	2016 Fall
• CS 313E, Elements of Software Design	
Samsung Convergence Software Course (SCSC) Mentoring Program	Mar.2015-Dec.2015
• Chosen as a mentor to help students coming for double major in CSE	

**Skills**

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*Programming Language and Databases*

Python, C++, SQL (Experienced) / Matlab, NoSQL (mongodb), javascripts (Intermediate) /  
 Vim, CUDA, Scala (Interested)

*Deep Learning Framework*

Tensorflow, Caffe, Torch (Experienced) / Theano + Lasagne (Intermediate)

## Publications

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### *International Conferences*

1. **Wonjoon Goo**, Juyong Kim, Gunhee Kim, and Sung Ju Hwang. *Taxonomy-Regularized Semantic Deep Convolutional Neural Networks*. European Conference on Computer Vision (ECCV 2016). Amsterdam, The Netherlands. 2016.

Last updated: September 4, 2017