Hyunsu Park

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EDUCATION

Georgia Institute of Technology   Aug. 2015 - May. 2020 (expected)
- Master of Science in Computer Science (Present)
- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics

RESEARCH/PROJECT EXPERIENCE

Natural Language Processing Research for Machine Learning Group   Aug. 2019 - Present
- Assisted a Ph. D. student advised by Prof. Le Song at Georgia Tech on Natural Language Processing projects (Present)
- Assisted on a research project to develop a modular and explainable open-domain question answering model (Present)
- Worked as a sub-reviewer for the Web Conference 2020 and AISTATS 2020
- Conducted experiments to analyze various Knowledge Graph Embedding algorithms

Snake Species Identification Project   Oct. 2019 - Dec. 2019
- Participated in the snake species identification challenge by the Institute of Global Health from the University of Geneva
- Implemented our own algorithm for filtering out low-quality training images in PyTorch
- Collaborated with 2 other students

Nonnegative Matrix Factorization Project   Apr. 2019 - June 2019
- Conducted a research project on unsupervised learning
- Created a python program that applies various nonnegative matrix factorization (NMF) to a dataset for clustering
- Implemented 3 different factorization algorithms from scratch

Curvature Constrained Path Planning Research   Oct. 2017 - May 2018
- Conducted a research project with Prof. Sung Ha Kang at Georgia Tech
- Planned a path with complete coverage of a given region with a mobile sensor through limited sensing ability and constrained curvature
- Used geometric analysis and path planning algorithms for the project

WORK EXPERIENCE

Teaching Assistant for College of Computing, Georgia Tech   May 2019 - Present
- Worked as a teaching assistant for CS 6515 Graduate Algorithms, taught by Prof. Brito in Summer and Fall of 2019
- Collaborated with 13 other teaching assistants to assist and evaluate 520 students in Fall of 2019 (Present)
- Collaborated with 7 other teaching assistants to assist and evaluate 280 students in Summer of 2019

Teaching Assistant for School of Mathematics, Georgia Tech   Aug. 2016 - May 2017
- Worked as a teaching assistant for MATH 3012 Applied Combinatorics, taught by Prof. Ernie Croot in fall of 2016
- Worked as a teaching assistant for MATH 3012 Applied Combinatorics, taught by Prof. Heather Smith in spring of 2017

SKILLSET

Programming Languages
- Python, LaTeX, Matlab, C, C++, Java, JavaScript, Objective-C, Swift, Assembly Language, HTML, CSS

Skills
- Natural Language Processing, Computer Vision, Machine Learning (PyTorch, TensorFlow, Keras, AWS SageMaker, Scikit-learn, Pandas, Numpy), Web Development (JavaScript, JQuery, HTML, CSS), Mathematics and Statistics

AWARDS

Highest Honor in Bachelor of Science in Computer Science, Georgia Tech   Dec. 2019
Highest Honor in Bachelor of Science in Mathematics, Georgia Tech   Dec. 2019
Putnam Exam   Dec. 2017
- Achieved top 20% among highly qualified university students