

Hyunsu Park

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EDUCATION

Georgia Institute of Technology

2015 Aug - Current

- MS in Computer Science (Current)
- BS in Computer Science
- BS in Mathematics
- Undergraduate GPA: 3.6 / 4.0

RESEARCH/PROJECT EXPERIENCE

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 a number of NMF algorithms from scratch
- Tested performances of different NMF algorithms using the program

Machine Learning Extracurricular Projects 2019

Mar 2019 - June

- Conducted extracurricular projects for self-improvement on coding proficiency in machine learning
- Managed more than 10 projects to completion, including plagiarism detector, sentimental analysis, customer segments, finding donors, boston housing prediction, titanic survival prediction

Curvature Constrained Path Planning Research

Oct 2017 - May 2018

- Conducted a research project with professor Sung Ha Kang at Georgia Tech, School of Mathematics
- Planned a path with complete coverage of a given region with a mobile sensor with limited sensing ability and constrained curvature
- Used geometric analysis and cutting-edge path planning algorithms for the project
- Created Python and Matlab Programs to examine the minimum length of a curvature-constrained path

WORK EXPERIENCE

Teaching Assistant for College of Computing, Georgia Tech

May 2019 - July 2019

- CS 6515 Graduate Algorithms, Prof. Brito in Summer of 2019

Teaching Assistant for School of Mathematics, Georgia Tech

Aug 2016 - May 2017

- MATH 3012 Applied Combinatorics, Prof. Ernie Croot in fall of 2016
- MATH 3012 Applied Combinatorics, Prof. Heather Smith in spring of 2017

SKILLSET

Programming Languages & OS

- Python, iPython, Matlab, C, C++, Java, JavaScript, Objective-C, Swift, Assembly Language, HTML, CSS, Windows, MacOS, Linux

Skills

- Machine Learning(Tensorflow, Keras, AWS SageMaker, Pytorch, Scikit-learn, Pandas, Numpy), Web Development (JavaScript, JQuery, HTML, CSS), Mathematics and Statistics

AWARDS & COMPETITION

Kaggle Competitions

- top 8% in Titanic: Machine Learning from Disaster by using various machine learning techniques including data cleaning, feature engineering, and stacking a few machine learning models

Putnam Exam

- top 20% (Dec 2017)

Math League State Competition

- 1st place in 9th grade (Apr 2012), 2nd place in 10th grade (Nov 2012), 2nd place in 11th grade (Nov 2013)