

# Hyunsu Park

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## EDUCATION

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### Georgia Institute of Technology

2015 Aug. - Present

- Master of Science in Computer Science (Present)
- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics

## RESEARCH/PROJECT EXPERIENCE

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### 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
- Tested performances of different NMF algorithms using the program

### Extracurricular Machine Learning Projects

Mar. 2019 - June 2019

- Conducted extracurricular projects for self-improvement on coding proficiency in machine learning
- Managed about 20 projects to completion, including plagiarism detector, sentimental analysis, customer segments, finding donors, Boston housing prediction, and 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 through 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

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### Teaching Assistant for College of Computing, Georgia Tech

May 2019 - July 2019

- Worked as a teaching assistant for CS 6515 Graduate Algorithms, taught by Prof. Brito in Summer of 2019
- Managed to assist and grade exams of 280 students with 7 other teaching assistants

### 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

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### Programming Languages

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

### Skills

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

## AWARDS & COMPETITION

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### Kaggle Competitions

- Achieved 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

- Achieved top 20% (Dec. 2017) among highly qualified university students

### Math League State Competition

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