

# Jasper Huang

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## EDUCATION

### UNIVERSITY OF PENNSYLVANIA

#### M.S.E. IN COMPUTER SCIENCE

Expected May 2022 | Philadelphia, PA  
GPA: 4.0/4.0

#### B.A.S. IN COMPUTER SCIENCE

Expected May 2022 | Philadelphia, PA  
GPA: 3.70 / 4.0

### THE WHARTON SCHOOL

Minors: Statistics, Consumer Psychology

## COURSEWORK

### GRADUATE

Database and Information Systems • Big Data Analytics • Machine Learning

### UNDERGRADUATE

Data Structures and Algorithms • Scalable Cloud Computing • Bayesian Inference • Advanced Linear Algebra • Consumer Behavior • Social Psychology

## SKILLS

### PROGRAMMING LANGUAGES:

Python • Java • JavaScript/HTML/CSS • SQL • Bash (macOS, Linux) • R • OCaml

### TECHNOLOGIES:

React.js • Jupyter • Apache Spark/Hadoop • Git • Pandas • Scikit-learn • OpenCV

### CLOUD SERVICES:

AWS – S3, EC2, SageMaker, Transcribe, A2I, DynamoDB, RDS, EMR • Google Firebase • Azure Notebooks • MongoDB • Neo4j

## LINKS

Personal Site:// [jasperhuang.github.io](http://jasperhuang.github.io)

Github:// [jasperhuang](https://github.com/jasperhuang)

LinkedIn:// [jasperjhuang](https://www.linkedin.com/in/jasperjhuang)

## WORK-STUDY

- TA – *Database and Info. Systems* (Fall 2020)
- TA – *Intro. to Probability* (Spring 2019, Fall 2019, Spring 2020)
- Data Assistant – Penn Wharton Budget Model (Fall 2018)

## PUBLICATIONS

Available on [Google Scholar](https://scholar.google.com/).

## PROFESSIONAL EXPERIENCE

### AMAZON.COM, INC. (AWS) | TECHNICAL WRITER INTERN, ML/AI

May 2020 – Aug. 2020 | Seattle, WA (Remote)

- Develop Python workflows/tutorials for customer applications with AWS ML/AI services, including Transcribe, Comprehend, SageMaker, and Augmented AI (A2I).

### WHARTON CUSTOMER ANALYTICS | ENGAGEMENT LEAD

June 2020 - July 2020 (Part-time) | Philadelphia, PA (Remote)

- Project lead on a data-driven market research project for C Space, a global market research consultancy ([www.cspace.com](http://www.cspace.com)).

### ESSITY, INC. | TECHNICAL ASSISTANT, DATA LEAD

Sept. 2019 - Nov. 2019 (Part-time) | Philadelphia, PA

- Led technical development of a proof-of-concept price recommendation model for 3 million hygiene product contracts. Projected ~\$380,000 additional revenue potential annually after price optimization.

## RESEARCH EXPERIENCE

### NAT'L UNIV. OF SINGAPORE | RESEARCH AND PROTOTYPING INTERN

May 2019 – July 2019 | Singapore

- NUS Maps: Prototyped concept features for NUS Maps, an augmented-reality campus navigation iOS app. Enabled multi-floor path navigation capability.
- E-scooter fall detection: Developed an algorithm to classify e-scooter falls from security camera footage using Python OpenCV and in-house human pose estimation API. Achieved 95% binary detection rate.

### SAN JOSE STATE UNIV. | INDEPENDENT RESEARCHER

June 2015 - July 2018 | San Jose, CA

- Acoustic gait analysis: Initiated and conducted end-to-end research on novel approach to acoustic gait/footstep recognition. Established 81.5% benchmark 5-fold cross-validation score on dataset of 10 subjects using random forests.
- Presented research at the **17th International Conference on Security and Management (SAM'18)** in Las Vegas.

### STANFORD UNIVERSITY | RESEARCH INTERN

June 2017 – Aug. 2017 | Stanford, CA

- Chronic back pain SCS tools: Prototyped low-cost leads and accelerated testing simulator. Demonstrated lead migration reduction by 75%.

## PROJECTS

### DISCUSS STUDIO | COFOUNDER, CTO

March 2020 – present

- Discuss Studio is a new centralized learning platform designed to streamline remote instruction and learning in response to the COVID-19 pandemic.
- Worked across software stack including Python Flask, React.js, Google Firebase, and AWS S3. Integrated transcription feature with Amazon Transcribe.
- Acquired 150 pilot users. Seed grant from the Penn Wharton Innovation Fund.

## AWARDS

Apr. 2020	3 <sup>rd</sup> /30 teams	Baring Private Equity Asia, Ltd. Datathon
Mar. 2020	2 <sup>nd</sup> /19 teams	Electronic Arts, Inc. Datathon
Mar. 2019		\$5000 Scholarship, Penn Abroad
Feb. 2017	Top 5% globally	American Mathematics Contest (AMC) 12