

# Sorathan (Tum) Chaturapruek

expected Ph.D. graduation in 2019

## EDUCATION

**Stanford University**, Stanford, CA 2014 - 2019 (expected)

Ph.D. Candidate in Computer Science

*advisors:* Ramesh Johari, John Mitchell

**Harvey Mudd College**, Claremont, CA 2010 - 2014

B.Sc. in Computer Science and in Mathematics (double major)

graduated with highest distinction (GPA 3.92/4) and two departmental honors

## EXPERIENCE

**Robinhood**, Menlo Park, CA — *Data Science Intern*

summer 2018

- I analyzed data and ran experiments to help with business decisions, ranging from improving new users' experience, evaluating customer support initiatives, helping the American Depository Receipts launch, to evaluating infrastructure improvements.
- I analyzed sequential user actions and Robinhood's actions to predict trading behavior and pathways to low churning

**Adobe Research**, San Jose, CA — *Data Science Research Intern*

summer 2017

- I have developed a new algorithm to sequentially recommend tutorials to visit next based on a sequential history of user tutorial visits
- 1 working paper, 2 patent submissions

**Stanford University**, Stanford, CA — *Research & Teaching Assistant*

2014 - present

- I am leading an 18-people team that builds Carta ([cartalab.stanford.edu](http://cartalab.stanford.edu)), a data-driven course planning tool that is voluntarily used by 95% of Stanford students and instruments academic search and planning for scientific study (2 publications and 2 working papers)
- previously, I did 3 machine learning research projects (2 publications)
- teaching assistant experience: Technology-enabled Blitzscaling (CS183C) and Statistical Learning Theory (CS229T)

**Yelp**, San Francisco, CA — *Software Engineering Intern (x 2)*

summers 2013 and 2014 (interned twice)

- I designed and implemented an end-to-end machine learning module that matches new 3rd party business information to existing records
- I received an offer for a full-time position by the end of the internship

781 Escondido Rd. Apt 502A  
Stanford, CA 94305

sorathan@cs.stanford.edu

## AWARDS

**Best Paper Award, ACM Conference on Learning at Scale**

*awarded to 1 paper published in the conference*

**Top 15 in the Putnam Mathematical Competition (next 10 after Putnam Fellows)**

*among 4000+ participants around the U.S. and Canada*

**Accel Innovation Scholarship**

*awarded to 12 Stanford students*

**Leland T. Edwards Graduate Study Fellowship**

*Stanford University's School of Engineering fellowship*

**Giovanni Borrelli Research Fellowship**

*awarded to one Harvey Mudd student*

## PUBLICATIONS / CV

Papers in *NeurIPS*, *L@S*, *AAAI*, *SIGCSE*, *SIAM Journal*, *Linear Algebra and its Applications*, and 4 working papers: see more at [cs.stanford.edu/~sorathan](http://cs.stanford.edu/~sorathan)

## SKILLS

Data analysis and ETL, machine learning, statistics / optimization, visualization, design thinking, software engineering, project management, leadership

PROGRAMMING LANGUAGES

Python, Java, Javascript, SQL, R, C/C++, LaTeX, HTML/CSS, UNIX commands

FRAMEWORKS/PLATFORMS

TensorFlow, SciPy, NumPy, Scikit-learn, Pandas, Django, Ruby on Rails, AngularJS, Presto, Apache Hive, Amazon Athena, Redshift, MySQL/Postgres

## LANGUAGES

English (fluent), Thai (native), Mandarin Chinese (beginner)