

Stephanie Oh

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Employment

- 2018 - 19 **Senior Data Scientist**, *Lending Club*, San Francisco, CA.
- Built ensemble models to identify potential repeat borrowers representing over \$1.5 billion in personal loans per year.
 - Collaborated with the data engineering team to create data sources that are robust to data leakage and used for production model development.
 - with credit bureau and behavioral features which are robust to data leakage for existing and future production models.
 - Participated in weekly roundtable on topics such as NLP for marketing and LTV modeling.
- 2017 - 18 **Senior Data Scientist**, *Sentient Technologies*, San Francisco, CA.
- Built and trained a reinforcement learning model for long/short trading.
 - Trained and tuned visual similarity models for apparel recommendations. Used a deep Siamese network with apparel images as input and output.
 - Created a basic framework for plugging in different optimization engines to search the space of audience targeting, bidding, and ad creative for digital marketing advertisement.
 - Led development of MVP for full funnel optimization. Productionized feature modeling research code. Helped develop the backend- serving using Flask, the UI with Bootstrap, and productionization with CI/CD leveraging Travis and AWS.
 - Collaborated on and evangelized an open source model management framework - Studio.ML- for data scientists and researchers.
- 2016 - 17 **Data Science Fellow**, *Fellowship.AI*, Oakland, CA.
- Developed a long/short trading model for a hedge fund client. Used reinforcement learning with a DQN network with experience replay and epsilon-decay in TensorFlow. Led biweekly status update meetings with the project manager and scientist at the hedge fund.
- 2015 - 16 **Manager of Education Software Technology**, *Wolfram Research*, San Francisco, CA.
- Hired, trained, and managed a remote group of developers working on education-focused technologies such as Wolfram|Alpha.
 - Integrated Wolfram|Alpha with other classroom technologies like Google Drive.
 - Led development and content meetings with CEO, Stephen Wolfram.
- 2013 - 15 **Developer**, *Wolfram Research*, Boston, MA.
- Developed continuously deployed revenue generating math content for wolframalpha.com.
 - Exhibited and presented at national education and software development-based conferences.
- 2012 - 13 **Teaching Assistant (Calculus)**, *Purdue University*, West Lafayette, IN.

Skills

Languages	Mathematica, Python
Frameworks	NumPy, pandas, scikit-learn, Keras, TensorFlow, Presto, XGBoost
Learning	Machine Learning, Deep learning, Reinforcement learning, Deep Q-learning
Miscellaneous	SQL, Git, AWS, Travis, Docker, HTML, L ^A T _E X, Camtasia

Education

- 2013 **MS in Mathematics**, *Purdue University*.
Recipient of fellowships for outstanding PhD-track students.
- 2011 **BA in Mathematics with Honors**, *Northwestern University*.

Honor thesis on Expander Graphs (2011)

2009-2010 **Budapest Semesters in Mathematics**, Budapest, Hungary.

2007 **High School Diploma**, *The Hill School*, Pottstown, PA.

Extracurricular

Languages English and Korean.

Interests Powerlifting, scuba diving and snowboarding.