

# Stephanie Oh

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## Employment

Sept 2016 - **Fellow**, *Startup.ML*, Oakland, CA.

- Develop LSTM TensorFlow code for financial trading predictions.
- Develop a model for financial trading using reinforcement learning (a deep Q-learning network with experience replay and epsilon-decay) using TensorFlow.
- Productionisation of TF model in client's computation framework for running jobs.
- Contribute insight and mentoring to improve process of product development at fellowship.
- Study and create blog posts about research papers pertaining to reinforcement learning.
- Brain storm and create wireframes for tools for machine learning packages

2015 - 16 **Manager of Education Software Technology**, *Wolfram Research*, San Francisco, CA.

- Manage and grow a remote group of developers working on education-focused technologies such as Wolfram|Alpha math Step-by-step.
- Integrate Wolfram|Alpha with existing classroom technologies, such as Google Drive.
- Solve backend development problems such as user data management, cloud deployment and automated code-grading.
- Lead development and content meetings with CEO, Stephen Wolfram, and other groups.
- Interview, hire and train new developers in the company's tools and development language.

2013 - 15 **Developer**, *Wolfram Research*, Boston, MA.

- Developed continuously deployed revenue generating math content for [wolframalpha.com](http://wolframalpha.com), in particular for Step-by-step problem solving.
- Exhibited and presented at education and software development-based conferences.
- Developed random math problem generation for Wolfram Problem Generator.
- Taught Topology, and Graph Theory at a summer camp for high school students.

2012 - 13 **Teaching Assistant (Calculus)**, *Purdue University*, West Lafayette, IN.

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## Computer skills

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| Languages     | Mathematica, Python  |
| Frameworks    | NumPy, pandas, scikit-learn, TensorFlow                                      |
| Learning      | Deep learning, Reinforcement learning, Deep Q-learning, LSTM, RNN, CNN       |
| Miscellaneous | Linux, L <sup>A</sup> T <sub>E</sub> X, Camtasia, Git, AWS, Containers, HTML |

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## Education

2013 **MS in Mathematics**, *Purdue University*, 3.6/4.0.

Recipient of fellowships for outstanding PhD-track students.

2011 **BA in Mathematics with Honors**, *Northwestern University*, 3.64/4.0.

Honor thesis on Expander Graphs (2011)

Recipient of merit scholarships for outstanding academic achievement.

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

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

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## Extracurricular

Languages English, Korean, French, German.

Interests Powerlifting, snowboarding, playing the piano, and cooking.