

# SACHIN RAVI

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35 Olden Street, Princeton, NJ 08540

## EDUCATION

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### PhD Candidate

Princeton University, Princeton, NJ

Adviser: Kai Li

### M.S.E. Computer Science — GPA 3.857/4.00

May 2014

Princeton University, Princeton, NJ

### B.S. Computer Science & Mathematics — GPA 3.8/4.00

May 2012

University of Wisconsin-Madison, Madison, WI

## PAPERS

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Mengye Ren, Eleni Triantafillou\*, Sachin Ravi\*, Jake Snell, Kevin Swersky, Joshua B. Tenenbaum, Hugo Larochelle, Richard S. Zemel. **Meta Learning for Semi-Supervised Few-Shot Classification**. *International Conference on Learning Representations (ICLR)*. 2018.

Sachin Ravi and Hugo Larochelle. **Optimization as a Model for Few-Shot Learning**. *International Conference on Learning Representations (ICLR)*. 2017. [\[Oral Presentation\]](#) [\[Link\]](#)

Eric T. Nalisnick\* and Sachin Ravi\*. **Learning the Dimensionality of Word Embeddings**. [\[Link\]](#)

## RESEARCH AND INDUSTRY EXPERIENCE

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### Research Scientist Intern, Twitter (Cortex Team)

Summer 2016

- Worked with Hugo Larochelle on a research project using meta-learning to train a neural network to generalize quickly after only receiving few labeled training examples.

### SDE Intern, Amazon (Recommendations Modeling Team)

Summer 2014

- Built visualizer using Javascript for features used in machine learning models for recommendations. Experimented building Naive Bayes model using summary information from Amazon CloudSearch for this data.

### SDE Intern, Amazon (Simple Workflow Team in Amazon Web Services)

Summer 2013

- SWF is Amazon's workflow system allowing users to run jobs in the cloud. Changed existing system to allow for manual listing and initiation of jobs in workflows. Previously, jobs were kicked-off in the order they arrived; added two Java API calls to list all available jobs and to manually start a specific job.

### SDE Intern, Amazon (Billing Team in Amazon Web Services)

Summer 2012

- Modified billing system to be event-driven so that changes in certain datastores would automatically kick-off billing calculations.

### SDE Intern, Amazon (Amazon Studios Team)

Summer 2011

- Developed newsfeed for Amazon Studios website in Ruby on Rails that allowed users to see new events related to the people and projects they were following. Came up with design of newsfeed system and finished a first iteration that went live shortly after internship.

## TEACHING

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### Assistant Instructor, Princeton University (COS 424 : Interacting with Data)

Spring 2014

- Held office hours for questions, graded problems sets and class project, and wrote one of the problem sets.

### Assistant Instructor, Princeton University (COS 423 : Theory of Algorithms)

Spring 2013

- Taught review sessions for homeworks, held office hours for questions, and graded homework problems.

**Assistant Instructor**, Princeton University (COS 126 : General Computer Science) *Fall 2012, Fall 2013*

- Taught precepts on course material, held office hours for questions, and graded programming assignments and exams.

#### SKILLS

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**Programming:** Python, Lua, Java, C/C++, L<sup>A</sup>T<sub>E</sub>X

**Machine Learning:** Tensorflow, PyTorch, Torch

#### AWARDS AND HONORS

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**Travel Award**, International Conference on Learning Representations (ICLR) *2017*

**Full-Tuition and AI-ship**, Princeton University *2012 - 2014*

**Computer Science Degree with Honors**, University of Wisconsin-Madison *2012*