

# SACHIN RAVI

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35 Olden Street, Princeton, NJ 08540

## EDUCATION

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### Ph.D. Computer Science

Princeton University, Princeton, NJ

Adviser: Kai Li

*Expected May 2019*

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

Princeton University, Princeton, NJ

*May 2014*

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

University of Wisconsin-Madison, Madison, WI

*May 2012*

## 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 models 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.

### 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.

## PUBLICATIONS

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### Conference Publications

Sachin Ravi and Alex Beatson. Amortized Bayesian Meta-Learning. In *Proceedings of the 7th International Conference on Learning Representations (ICLR)*, 2019.

Mengye Ren, Eleni Triantafillou\*, Sachin Ravi\*, Jake Snell, Kevin Swersky, Joshua B. Tenenbaum, Hugo Larochelle, and Richard S. Zemel. Meta Learning for Semi-Supervised Few-Shot Classification. In *Proceedings of the 6th International Conference on Learning Representations (ICLR)*, 2018.

Sachin Ravi and Hugo Larochelle. Optimization as a Model for Few-Shot Learning. In *Proceedings of the 5th International Conference on Learning Representations (ICLR)*, 2017. **Oral Presentation** (3% acceptance).

### Workshop Publications and Preprints

Sachin Ravi and Alex Beatson. Amortized Bayesian Meta-Learning. *NeurIPS Workshop on Meta-Learning*, 2018.

Sachin Ravi and Hugo Larochelle. Meta-Learning for Batch Mode Active Learning. *International Conference on Learning Representations (ICLR) Workshop*, 2018.

Eric T. Nalisnick\* and Sachin Ravi\*. Learning the Dimensionality of Word Embeddings. 2017.

## 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.

## PROFESSIONAL SERVICE

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- Reviewer**, International Conference on Machine Learning (ICML). *2019*
- Reviewer**, International Conference on Learning Representations (ICLR). *2019*
- Organizer**, NeurIPS Workshop on Meta-Learning. *2018*
- Reviewer**, Conference on Neural Information Processing Systems (NeurIPS). *2018*
- Reviewer**, NIPS Workshop on Meta-Learning. *2017*

## SKILLS

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**Programming:** Python, Java, C/C++, L<sup>A</sup>T<sub>E</sub>X  
**Machine Learning:** Tensorflow, PyTorch

## AWARDS AND HONORS

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- Travel Award**, International Conference on Learning Representations (ICLR) *2017*
- Computer Science Degree with Honors**, University of Wisconsin-Madison *2012*