Sachin Ravi

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Cupertino, CA

Education

Ph.D. Computer Science *May 2019*
Princeton University, Princeton, NJ
Adviser: Kai Li
Thesis: Meta-Learning for Data and Processing Efficiency

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

Industry Experience

Research Engineer, Apple *Sept 2019 -*

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

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

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

Reviewer, International Conference on Machine Learning (ICML).   *2019*

Reviewer, International Conference on Learning Representations (ICLR).   *2019, 2020*

Reviewer, Conference on Neural Information Processing Systems (NeurIPS).   *2018, 2019*

Organizer, NeurIPS Workshop on Meta-Learning.   *2018*

Reviewer, NIPS Workshop on Meta-Learning.   *2017*

SKILLS

Programming: Python, Java, C/C++, LaTeX
Machine Learning: Tensorflow, PyTorch

AWARDS AND HONORS

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