

Xuechen(Chen) Li

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Education

University of Toronto TORONTO, CANADA
Bachelor in Computer Science & Statistics Sept. 2015 –
Coursework in machine learning and theory of computation. UofT ACM-ICPC team (2016, 2017).
Cumulative GPA: 4.00/4.00
Estimated graduation: May 2019

Publication

Inference Suboptimality in Variational Autoencoders. Chris Cremer, **Xuechen Li**, David Duvenaud. NIPS workshop on *Advances in Approximate Bayesian Inference (AABI)*, 2017.

Projects

Light-weight Bayesian neural network library: **bayesian-nn (work in progress)**

A light weight Bayesian neural network library built on top of tensorflow trained with stochastic variational inference. Work in progress. <https://github.com/lxuechen/bayesian-nn>

Image Classifier on subsampled data from the FLICKR dataset

Applied transfer-learning using 152-layer residual convolutional neural network (resNet) pre-trained on ImageNet. Adopted various discriminative and generative models for classification. Top five among 176 teams on public test data for in-class competition in cross-listed graduate course.

Heart disease predictor from medical data

Built an ensemble classifier with random forrest, kNN, neural nets and autoencoders. Top five among 20+ teams for *Deep Health Hackathon*.

Skills

Programming languages: Python, Java, C/C++, SQL, Scheme, Haskell, HTML+CSS+JS, Assembly
Technical specialties: Data analysis and machine learning with R, Numpy/Scipy, Tensorflow, Pytorch
Natural languages: English, Mandarin, French (preliminary)

Experience

University of Toronto TORONTO, CANADA
Research Assistant (Machine Learning) May 2017–

- worked on generative models (GAN, VAE, etc.), inference methods, and Bayesian neural nets
- investigated a novel extension of VAE, i.e. the generator-aware doubly Bayesian VAE
- applied Bayesian neural networks to adversarial example detection

Achievements and Awards

1st place of Microsoft College Code Competition at UofT 2017
Samuel Beatty In-Course Scholarship 2017
Dean's List Scholar 2017, 2016
Lawrence and Sharen Ho International Scholarship 2017, 2016, 2015
University of Toronto Scholars 2017, 2016, 2015

Teaching Assistantships

MAT135 Calculus Fall 2017
STA257 Probability & Statistics Summer 2016

Other Academic Fields of Interests

Algorithm Design, Operating Systems, Distributed Computing, Graph Theory, Information Theory