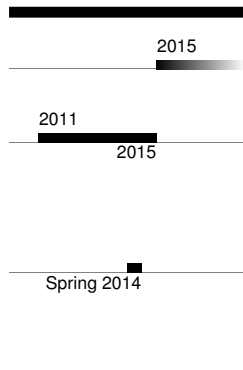


## Education



**Stanford University**, Stanford, CA.

◦ PhD student in Machine Learning.

**Tsinghua University**, Beijing, China.

◦ B.Eng. in Computer Science.

◦ Enrolled in [Yao Class](#), a special pilot CS program led by [Prof. Andrew C. Yao](#) for talented students.

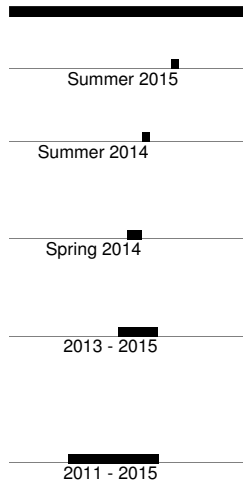
◦ **GPA: 94 / 100. Rank: top 1 / 39** in [Yao Class](#).

**Massachusetts Institute of Technology**, MA, US.

◦ Exchange student, Electrical Engineering and Computer Science (Course VI).

◦ **GPA: 5.0 / 5.0.** Took graduate-level courses: 6.437 inference and information, 6.252 nonlinear programming, 6.816/836 multicore programming.

## Work Experience



**Dropbox HQ**, San Francisco, CA. *Software Engineer Intern - Computer Vision.*

I worked as an intern on the CV/ML team at Dropbox.

**Stanford AI Lab (SAIL)**, Stanford University, Stanford, CA. *Summer Research Intern.*

I worked with Professor [Percy Liang](#) on heterogeneity in probabilistic inference and devised methods that lead to 2-5X speedup for a wide class of structured prediction models.

**Computer Science and Artificial Intelligence Laboratory (CSAIL)**, MIT, Cambridge, MA.

Advisor: [Dr. Vikash Mansinghka](#). Contributed to a probabilistic programming system called [Venture](#) and built scalable HMC inference algorithms using automatic gradients.

**Microsoft Research Asia**, Beijing, China.

Mentor: [Thomas Moscibroda](#), Senior Researcher & Research Manager. I developed compressive sensing algorithms to effectively reduce cost of correlated data collection on sensor/social networks, such as air quality indices at different locations in Beijing.

**State Key Lab of Intelligent Tech. and Systems (TNList)**, Tsinghua University, Beijing, China.

I worked with [Prof. Jun Zhu](#). and proposed streaming Bayesian learning to scaled up max-margin topic models by orders of magnitudes.

## Publications

- [1] Chongxuan Li, [Jun Zhu](#), [Tianlin Shi](#), Bo Zhang. **Max-Margin Deep Generative Models.** **NIPS 2015:** To appear in 29th Annual Conference on Neural Information Processing Systems.
- [2] [Tianlin Shi](#), [Jacob Steinhardt](#), [Percy Liang](#), **Learning to Sample in Structured Prediction.** **AISTATS 2015:** 18th International Conference on Artificial Intelligence and Statistics (Oral).
- [3] [Tianlin Shi](#), [Jun Zhu](#). **Online Bayesian Passive-Aggressive Learning.** **ICML 2014:** 31st International Conference on Machine Learning, Beijing, China, 2014. **Top 18 / 1260+** submissions. [Full version](#) is invited to and under review by **JMLR**.
- [4] [Tianlin Shi](#), Da Tang, et al. **Correlated Compressive Sensing for Networked Data.** **UAI 2014:** 30th Conference on Uncertainty in Artificial Intelligence, Quebec, Canada, 2014.
- [5] [Tianlin Shi](#), Liang Ming, [Xiaolin Hu](#). **A Reverse Hierarchy Model for Predicting Eye Fixations.** **CVPR 2014:** IEEE Conference on Computer Vision and Pattern Recognition, Columbus, USA.
- [6] [Jian Li](#), [Tianlin Shi](#), **An FPTAS for Approximating a Sum of Random Variables.** **ORL:** Operations Research Letters 42.3 (2014): 197-202. Major contributor. Author names under alphabetic order according to CS Theory convention.
- [7] [Tianlin Shi](#), [Alexey Radul](#), [Vikash Mansinghka](#), **Inference with Automatic Gradients in Higher-Order Probabilistic Programs.** **NEML:** Workshop at New England Machine Learning Day 2014.

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## Honors and Awards

2014

**Gold Medal, Andrew C. Yao Award**, Tsinghua University.

Highest honor for Yao Class students with extraordinary academic achievements.

2013

**Tsinghua-Baidu Scholarship**, Tsinghua University.

2013 - 2015

**Fellowship of Spark Talents Program**, Tsinghua University.

Among top 50 / 3000 Tsinghua students dedicated to scientific and technological innovations.

2012 - 2015

**Fellowship of Tsinghua Xuetang Talents Program**, Tsinghua University.

Among top 300 / 3000 newly-enrolled Tsinghua students.

2011

**Gold Medal, China Adolescents Science and Technology Innovation Contest.**

Winner of the biggest national competition for adolescents in science and engineering.

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## Programming Experience

Proficient in C++ and Python. Capable of Java, JavaScript, MATLAB, L<sup>A</sup>T<sub>E</sub>X, Julia, Swift, C#, Objective-C, bash, HTML5/CSS3. Familiar with front-end stack and machine learning algorithms. Github: <https://github.com/strin>.

2015

**Cal Hacks 2.0**, UC Berkeley.

Built **Hermes**: an end-to-end itinerary planning and execution bot that could call Uber automatically for users.

2015

**HackGT**, GeorgiaTech.

Built **FlightX**, an app for planning optimal flight itinerary based on user preferences.

2015

**Unique Hack Day**, Wuhan, China.

Built "Hummer": a music game where players could learn singing through playing a game. The game recognizes singing pitches and use them to control a bird.

2014

**HackShanghai: China's largest college Hackathon**, NYU Shanghai.

Built a smart-watch app enabling a fresh way of reading.

2014

**HackPrinceton**, Princeton University.

Built a cooking recipe recommendation system that matches ingredients to recipes.

2014

**YaoTalk: A Conversational System for the IIS Domain**, Course Project.

A chat bot based on dialogue systems, speech recognition and web crawlers that help people know about Yao class.

2013

**RayX – RayTracer for Photo-realistic Images and Videos**, Course Project.

A fast ray-tracing software written in C++ 11 [1-min video].

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## Talks

May, 2015

**Learning Where to Sample in Structured Prediction.**

International Conference on AI & Stats 2014. See [slides](#).

Jun, 2014

**Online Bayesian Passive-Aggressive Learning.**

International Conference on Machine Learning 2014. Available on [techtalk.tv](#).

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## Services

2015

**Reviewer of ICML 2015**, to be held in Lille, France.

2011 - 2014

**China's Welfare Institute Children's Palace**, Shanghai, China.

Advised high-school students to work on challenging programming projects.

2012 - 2015

**The Association of Student International Communication (ASIC)**, Tsinghua University.

Contributed to Global Village, a yearly event for students from nearly 20 countries to demonstrate their diverse culture. More than 3000 students are involved each year.

Aug, 2012

**College View Program**, Shanghai JiaoTong University.

A program to let high-school students experience college life.