# Jiaming Song

✉ tsong@cs.stanford.edu
🖰 tsong.me

## Education

2016 – **Stanford University,** Palo Alto, CA.
Ph.D. Program in Computer Science. Advisor: Stefano Ermon.

2012 – 2016 **Tsinghua University (THU),** Beijing, China.
B.Eng. in Computer Science and Technology. Graduated with Outstanding Honor (Top 1%).

## Publications and Manuscripts

December 2017 **A-NICE-MC: Adversarial Training for MCMC**
Jiaming Song, Shengjia Zhao and Stefano Ermon.
To appear in *the 30th Neural Information Processing Systems (NIPS 2017)*.
Abridged version in *ICML 2017 Workshop on Implicit Models*.

December 2017 **InfoGAIL: Interpretable Imitation Learning from Visual Demonstrations**
Yunzhu Li, Jiaming Song and Stefano Ermon.
To appear in *the 30th Neural Information Processing Systems (NIPS 2017)*.

In submission **InfoVAE: Information Maximizing Variational Autoencoders**
Shengjia Zhao, Jiaming Song and Stefano Ermon.

August 2017 **Learning Hierarchical Features from Generative Models**
Shengjia Zhao, Jiaming Song and Stefano Ermon.
In *the 34th International Conference on Machine Learning (ICML 2017)*.

April 2017 **Generative Adversarial Learning of Markov Chains**
Jiaming Song, Shengjia Zhao and Stefano Ermon.
In *the 5th International Conference on Learning Representations (ICLR 2017) Workshop Track*.

June 2016 **Factored Temporal Sigmoid Belief Networks for Sequence Learning**
Jiaming Song, Zhe Gan and Lawrence Carin.
In *the 33rd International Conference on Machine Learning (ICML 2016)*.

In submission **Max Margin Nonparametric Latent Feature Models for Link Prediction**
Jun Zhu, Jiaming Song and Bei Chen.

Feburary 2016 **Discriminative Nonparametric Latent Feature Relational Models with Data Augmentation**
Bei Chen, Ning Chen, Jun Zhu, Jiaming Song and Bo Zhang.
In *the 30th Association for the Advancement of Artificial Intelligence (AAAI 2016) Conference*.

September 2015 **Organizational Churn: A Roll of the Dice?**
Canyao Liu*, Jiaming Song* and Chuan Yu*.
In *Undergraduate Mathematics and Its Applications*, Journal Issue 36.2. Corresponding author.

## Research Experiences

June 2017 - **Research Intern,** OpenAI. Mentors: Rocky Duan and John Schulman.
Sept 2017 Research on deep reinforcement learning.

| | |
|---|---|
| April 2016 - July 2016 | **Detection, Tracking and Reidentification Group,** Megvii Inc. Mentor: Chi Zhang<br>Developed a scalable framework to provide distant supervision for unlabeled data, which allows model distillation and merging network structures for different tasks, such as detection and parsing.<br>Megvii Inc. is a leading unicorn start-up in China, with emphasis on machine learning and computer vision. |
| July 2015 - September 2015 | **Information Initiative @ Duke (iiD),** Duke University. Advisor: Prof. Lawrence Carin.<br>Worked on conditional factored deep generative models using recent Neural Variational Inference methods, which allows for semi-supervised deep learning and sequence generation with side information. |
| November 2014 - June 2015 | **Statistical AI & Learning (TSAIL) Group,** Tsinghua University. Advisor: Prof. Jun Zhu.<br>Explored stochastic variational methods for link prediction problems. Proposed an efficient method that would train on a network with over 3 million nodes, a significant improvement over original methods. |
| July 2014 - October 2014 | **Visual Computing Group,** Microsoft Research Asia. Advisor: Jingdong Wang.<br>Implemented a convolutional neural network for multiple label image annotation with Caffe. |

## Honors and Awards

| | |
|---|---|
| June 2016 | **Qualcomm Scholarship,** issued by Qualcomm.<br>Offered to Tsinghua undergraduates with exceptional research experiences (top 1%). |
| June 2015 | **Google Excellence Scholarship,** issued by Google.<br>This scholarship is offered to Chinese undergraduate and graduate students who possess remarkable academic achievements and project experiences. 58 students are selected nationwide (6 in Tsinghua University). |
| April 2015 | **Outstanding Winner,** Interdisciplinary Contest in Modeling 2015.<br>Highest award (9 out of 2317) of the contest. Published a paper which models organizational churn using Bayesian-inspired methods and network science. See github.com/jiamings/icm2015 for more details. |
| April 2015 | **Third Prize,** 33rd Tsinghua Challenge Cup, issued by Tsinghua University.<br>Our project implements fast, scalable video segmentation and classification which utilizes deep activation features. Please see jiamings.github.io/projects/decaf-video for details. |
| October 2014 | **Outstanding Undergraduate,** issued by the China Computer Federation (CCF).<br>Only 4 students in Tsinghua, and 100 in China are awarded each year. |
| May 2014 | **Spark Program for Technological Innovation,** Tsinghua University.<br>Among top 50/3000 students for achievements in scientific and technological innovations. |
| December 2013 | **Zhong Shimo Scholarship,** issued by Dept. of Computer Science and Technology.<br>Highest scholarship in the CS Department for academic achievements, social activities, and charity work. (top 0.75%) |
| July 2011 | **Bronze Prize, National Olympiad in Informatics,** issued by China Computer Federation (CCF). |

## Language Proficiency

| | |
|---|---|
| TOEFL | Total: 113 (Reading: 30; Writing: 29; Speaking: 24; Listening: 30). |
| GRE | Verbal: 160/170 (85%); Quantitative: 170/170 (98%); Analytical Writing: 5.0/6.0 (93%). |