

Sidi Lu

Undergraduate Student from
the ACM Honored Class
Shanghai Jiao Tong University



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UNDERGRADUATE RESEARCH

“Unsupervised Learning for Generative Data Modeling with Modern Machine Learning Techniques”

My research mainly focuses on theoretically and empirically addressing the problem of building effective generative models, including tractable density models (language models, PixelRNN-like models, Flow-based models), implicit density models (GAN/WGANs), explicit variational models (VAEs) and Bayesian Graphical Models.

INTERNSHIP EXPERIENCE

CURRENT, FROM JUL 2018 (FT)

BCS Dept, Massachusetts Institute of Technology *Visiting Student/Research Intern*

I am invited by Prof. Joshua B. Tenenbaum for a 7-month visiting at MIT. My main focus is on generative modeling using Bayesian Graphical Model and guided meta-learning of such models.

CURRENT, FROM JUL 2017 (PT)

APEX Lab, Shanghai Jiao Tong University *Research Intern*

I am an undergraduate member of the Natural Language Generation and Unsupervised Learning group of APEX Lab, Shanghai Jiao Tong University. My main focus is on generative modeling of sequential discrete data using various approaches like GAN, Inverse Reinforcement Learning and Cooperative Training which is recently proposed by myself.

EDUCATION

2015 – 2019 **Bachelor of Computer Science**
ACM HONORED CLASS (TOP CLASS IN SJTU)
Zhiyuan College
Shanghai Jiao Tong University

AWARDS

2015 – 2019 **Zhiyuan Annual Scholarship**
Shanghai Jiao Tong University

COMPUTER SKILLS

INTERMEDIATE \LaTeX , MATLAB, Java, Scheme
Linux, Microsoft Windows
EXPERT C/C++, Python2/3, TensorFlow

LANGUAGE SKILLS

TOEFL Total: 104 (L28, S23, R28, W25)
GRE Total: 320 (V150, Q170)

PUBLICATIONS & SUBMISSIONS

Jiaxian Guo, **Sidi Lu**, Han Cai, Weinan Zhang, Yong Yu, Jun Wang (2017).

Long Text Generation via Adversarial Training with Leaked Information

AAAI-2018

Accepted as a Conference Poster Paper

Yaoming Zhu, **Sidi Lu**, Lei Zheng, Jiaxian Guo, Weinan Zhang, Jun Wang, Yong Yu (2018).

Texygen: A Benchmarking Platform for Text Generation Models

SIGIR-2018

Accepted as a Conference Short Paper

Sidi Lu, Lantao Yu, Weinan Zhang, Yong Yu (2018).

CoT: Cooperative Training for Generative Modeling of Discrete Data

NIPS 2018

Under Review (Scored 8/7.5)

Sidi Lu, Yaoming Zhu, Weinan Zhang, Jun Wang, Yong Yu (2018).

Neural Text Generation: Past, Present and Beyond

IJCAI 2018 Survey Track

Submitted

Sidi Lu, Jiajun Wu, Sihao Ying, Jiayuan Mao, Joshua B. Tenenbaum (2018).

Meta Adversarial Learning for Bayesian Generative Modeling

To Be Completed

SKILLS

Self-motivated

I do not require detailed instructions on how should I finish the project. I have lots of interesting ideas and would always be willing to implement and verify them on my own.

Insightful

For tasks that interest me, I am very agile in getting the intrinsic point of the problem and previous state-of-the-art approaches, as well as using them as motivation for exploring new possibilities.

Passionate

My dream has been developing a generative model that is good enough to fully understand humans' minds since I was 14 years old. I've dedicated years of hard working to make this dream come true. The dream gradually evolves into some kind of a passion, which keeps me working even if I face challenges and extremely hard problems.