

Tianfan Fu

CONTACT INFORMATION	Computational Science and Engineering Atlanta, US <i>Voice:</i> +1 4706013173	Georgia Institute of Technology <i>Email:</i> futianfan@gmail.com & tfu42@gatech.edu <i>Homepage:</i> futianfan.github.io
RESEARCH INTERESTS	Machine Learning for Healthcare, Natural Language processing, Deep Learning, Speech Processing, Bayesian Statistics.	
EDUCATION	Georgia Institute of Technology , Atlanta, US. PhD candidate, Advisor: Jimeng Sun , Computer Science Program in Department of Computational Science and Engineering, August 2018 - Present. Shanghai Jiao Tong University (SJTU) , Shanghai, CHINA M.S., Advisor: Zhihua Zhang , Computer Science and Technology, Sept 2015 - April 2018. Shanghai Jiao Tong University (SJTU) , Shanghai, CHINA B.E., Electronics and Electric Engineering (IEEE Honor Class), Sept 2011 - June 2015.	
RESEARCH EXPERIENCE	Research Assistant , Speech Lab, Shanghai Jiao Tong University (SJTU) Advisor: Kai Yu , June 2013 - Jan 2015. Research topic: application of deep learning on speech recognition and speaker verification. Research Assistant , Learning and Optimization Group, Shanghai Jiao Tong University (SJTU) Advisor: Zhihua Zhang , Feb 2015 - May 2017. Research topic: Bayesian computation and inference. Research Assistant , SunLab, Georgia Institute of Technology Advisor: Jimeng Sun , Sept 2018 - Present. Research topic: Drug Discovery, Predictive Phenotyping.	
INDUSTRY EXPERIENCE	Research Intern , Machine Learning Group, Disney Research Institute, Pittsburgh Advisor: Cheng Zhang & Stephan Mandt , Sept 2017 - Dec 2017. Research topic: word/user embeddings algorithm Intern , Dialogue System Group, AISPEECH, Suzhou, China Project: Text Similarity for QA system, Feb 2018 - June 2018.	
PUBLICATIONS	Tianfan Fu* , Tian Gao*, Cao Xiao, Tengfei Ma, Jimeng Sun: PEARL: Prototype Learning via Rule Learning. ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB) 2019. (Oral) Tianfan Fu* , Trong Nghia Hoang*, Cao Xiao, Jimeng Sun: DDL: Deep Dictionary Learning for Predictive Phenotyping. International Joint Conferences on Artificial Intelligence (IJCAI 2019). (Oral) Tianfan Fu , Cheng Zhang, Stephan Mandt: Continuous Word Embedding Fusion via Spectral Decomposition. SIGNLL Conference on Natural Language Learning (CoNLL 2018). (Oral) Shenjian Zhao, Yujun Li, Tianfan Fu , Kai Li, Zhihua Zhang: Chinese Translation of Deep Learning (Goodfellow et al). Sales volume: 100,000+ .	

Tianfan Fu, Zhihua Zhang: CPSG-MCMC: Clustering-Based Preprocessing method for Stochastic Gradient MCMC. **AISTATS** 2017: 841-850.

Tianfan Fu, Luo Luo, Zhihua Zhang: Quasi-Newton Hamiltonian Monte Carlo. Conference on Uncertainty in Artificial Intelligence, **UAI** 2016.

Yuan Liu, Yanmin Qian, Nanxin Chen, **Tianfan Fu**, Ya Zhang, Kai Yu: Deep feature for text-dependent speaker verification. **Speech Communication** 73: 1-13, 2015. (Citation: **107**)

Wei Li, **Tianfan Fu**, Jie Zhu: An improved i-vector extraction algorithm for speaker verification. **EURASIP J. Audio, Speech and Music Processing** 2015: 18, 2015.

Yuan Liu, **Tianfan Fu**, Yuchen Fan, Yanmin Qian, Kai Yu: Speaker verification with deep features. International Joint Conference on Neural Networks, **IJCNN** 2014: 747-753. (**Oral**)

Tianfan Fu, Yanmin Qian, Yuan Liu, Kai Yu: Tandem deep features for text-dependent speaker verification. **INTERSPEECH** 2014: 1327-1331. (**Oral**, Citation: **29**)

RELATED SKILLS

- graduate Major GPA: 3.68/4.0, undergraduate Major GPA: 3.48/4.0
- Programming Skills: Python, C++, Bash(awk, sed, etc.), latex, git, Pytorch, Tensorflow

AWARDS

- 2014 Shanghai Jiao Tong University Academic Excellence scholarship (Top 10%)
- 2016 SJTU Academic Excellence Scholarship Class-A (Top 15%)
- 2017 CS Graduates Education & Development Fund and Yang Yuanqing Education Fund (Top-3 in all graduate students in CS Department).

ACADEMIC INVOLVEMENT

- 2016 UAI Travel Award & Volunteer
- 2016 NIPS Reviewer (5 papers)
- 2017 AAAI sub-reviewer (2 papers)
- 2017 AISTATS Travel Award
- 2018 AAAI Reviewer (1 paper)

TEACHING

- 2016 Prof. Zhihua Zhang's course "Statistical Machine Learning" TA
- 2018 Prof. Bo Yuan's course "Artificial Intelligence" TA
- 2019 Prof. Jimeng Sun's course "Big Data Analytics for Healthcare" TA