Tianfan Fu

CONTACT INFORMATION	Department of Computer Science Shanghai, China *Voice:* 86-18817554315	Shanghai Jiao Tong University *Email:* futianfan@gmail.com *Homepage:* futianfan.github.io

RESEARCH INTERESTS

Machine Learning, Bayesian statistics, MCMC methods, variational inference, Speech Recognition.

EDUCATION

Shanghai Jiao Tong University (SJTU), Shanghai, CHINA

MPhil, Advisor: **Zhihua Zhang**, Computer Science, Sept 2015 - April 2018.

Shanghai Jiao Tong University (SJTU), Shanghai, CHINA

B.Eng., Computer Science (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**, Sept 2015 - June 2017.
Research topic: Bayesian computation and inference.

Research Intern, Machine Learning Group, Disney Research Institute, Pittsburgh

Advisor: **Cheng Zhang & Stephan Mandt**, Sept 2017 - March 2018.
Research topic: Bayesian computation and inference.

PUBLICATIONS

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

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

Wei Li, **Tianfan Fu**, Hanxu You, Jie Zhu, Ning Chen: Feature sparsity analysis for i-vector based speaker verification. **Speech Communication** 80: 60-70, 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

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)

RELATED SKILLS

- Good at English(GRE: 150(V), 170(Q), 3.5(W); TOEFL: 26(R), 22(L), 20(S), 24(W))
- Skilled at: Python, C/C++, Bash(awk, sed, etc.), git, Matlab, R, latex

AWARDS

- 2014 2nd provincial-level in China Undergraduate Mathematical Contest in Modeling
- SJTU Outstanding Bachelor Thesis (1% selected in SJTU)

- 2014 Shanghai Jiao Tong University Academic Excellence scholarship
- 2016 SJTU Academic Excellence Scholarship Class-A (Top 15%)

ACADEMIC
INVOLVEMENT
- 2014 INTERSPEECH travel award & volunteer
- 2015,2016 Prof. Zhihua Zhang's course "Statistical Machine Learning" TA
- 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)