Tianfan Fu

CONTACT
INFORMATION

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Shanghai, China
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Shanghai Jiao Tong University
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RESEARCH
INTERESTS

Machine Learning, Bayesian Statistics, Deep Learning, Word Embeddings, Speech Recognition.

EDUCATION

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 - June 2017.
Research topic: Bayesian computation and inference.

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; Bayesian computation and inference

PUBLICATIONS

Tianfan Fu, Cheng Zhang, Stephan Mandt: Weighted Gibbs Sampling. Submitted to **AISTATS** 2018.

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.

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. (Citation: 47)

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.

Tianfan Fu, Yanmin Qian, Yuan Liu, Kai Yu: Tandem deep features for text-dependent speaker verification. **INTERSPEECH** 2014: 1327-1331. (Oral, Citation: 15)

RELATED SKILLS	• English Skills: GRE: 150(V), 170(Q), 3.5(W); TOEFL: 26(R), 22(L), 20(S), 24(W). • graduate Major GPA: 3.72/4.0, undergraduate Major GPA: 3.50/4.0 • Programming Skills: Python, C++, Bash(awk, sed, etc.), latex, Java, C, git, Matlab, R
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	• 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)