

# ZHIMENG JIANG

## CONTACT INFORMATION

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## EDUCATION

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**Texas A&M University (TAMU)**

Ph.D. in Computer Science and Engineering

Advisor: Prof. Xia “Ben” Hu

*College Station, TX, U.S.*

*Sep. 2019 - Present*

**University of Science and Technology of China (USTC)**

M.Eng. in Electronic Engineering and Information Science (EEIS)

Advisor: Prof. Chen Gong & Zhengyuan Xu

*Hefei, Anhui, China*

*Sep. 2016 - Jun. 2019*

**Harbin Institute of Technology (HIT)**

B.E. in Electronic Information Engineering

GPA: 91.54/100 (top 2% out of 100)

*Harbin, Heilongjiang, China*

*Sep. 2012 - Jun. 2016*

## RESEARCH INTERESTS

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**Trustworthy Machine Learning:** boosting **fairness** & **robustness** of DNNs and GNNs.

**Display Advertising:** Bid optimization, Click-Through-Rate Prediction.

## PUBLICATIONS

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- [Working]    **Z. Jiang**, K. Zhou, M. Zhang, R. Chen, X. Hu, S. Choi, “Risk-Aware Reinforcement Learning Based Bid Optimization”, To be submitted.
- [ICML’22]    **Z. Jiang**, X. Han, C. Fan, Z. Liu, N. Zou, A. Mostafavi, X. Hu, “FMP: Toward Fair Graph Message Passing against Topology Bias”, Under Review.
- [ICML’22]    X. Han, T.Chen, K. Zhou **Z. Jiang**, Z. Wang, X. Hu, “You Only Debias Once: Towards Flexible Accuracy-Fairness Trade-offs”, Under Review.
- [ICML’22]    X. Han, **Z. Jiang**, N. Liu, X. Hu, “G-Mixup: Graph Augmentation for Graph Classification”, Under Review.
- [ICLR’22]    **Z. Jiang**, K. Zhou, Z. Liu, L. Li, R. Chen, S. Choi, X. Hu, “An Information Fusion Approach to Learning with Instance-Dependent Label Noise”, Accepted.
- [ICLR’22]    **Z. Jiang**, X. Han, C. Fan, F. Yang, A. Mostafavi, X. Hu, “Generalized Demographic Parity for Group Fairness”, Accepted.
- [WWW’22]    X. Han, **Z. Jiang**, N. Liu, Q. Song, J. Li, X. Hu, “Geometric Graph Representation Learning via Maximizing Rate Reduction”, Accepted.

## RESEARCH EXPERIENCES

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**Graduate Research Assistant, DATA Lab at TAMU University**

*Supervisor: Dr. Xia Hu*

Sep. 2019 - Present

- Conduct research on trustworthy machine learning, including algorithmic fairness over continuous sensitive attributes (Under Review 3), weakly-supervised learning under label noise (Under Review 2), GNN with fair message passing, and fairness-aware pruning.
- Conduct research on risk-aware bid optimization for advertisement display (Under Review 1).

## Deep Learning Engineer Intern, Samsung Research America

May 2020 - Aug. 2020

*Supervisor: Dr. Li Li, Dr. Rui Chen*

- Improved the click-through-rate prediction of the production model via multi-task learning.

## HONORS AND AWARDS

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Chinese Undergraduates Mathematics Competitions, 1st class (Rank: 6/60k+)	Mar. 2015
National Scholarship for Outstanding Graduate Student (top 3%)	USTC, Oct. 2018
National Scholarship for Outstanding Graduate Student (top 1%)	HIT, Sep. 2015
Outstanding Graduate Students Awards, USTC & Anhui Province	Apr. 2019
Outstanding Undergraduate Students Awards	HIT, Jul. 2016
China Aerospace Science and Technology Corporation Grants	HIT, 2013, 2014, 2015

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, C, C++, Matlab, R
<b>Libraries &amp; Tools</b>	TensorFlow, PyTorch, Vim, L <sup>A</sup> T <sub>E</sub> X

## SERVICE

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- Conference Reviewer: ICML'22, ICLR'20, KDD'20, CIKM'20, WSDM'21
- Journal Reviewer: IEEE Transactions on Information Forensics and Security, Digital Signal Processing, IEEE Communications Letter, IEEE Wireless Communications Letter, EURASIP Journal on Wireless Communications and Networking