Yifei Zhang

CONTACT
INFO

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EDUCATION

Chinese University of Hong Kong HongKong, China

In Coming Ph.D Candidate in CSE **August 2020 - July 2024**

- Advisor: Prof. Iwrin King

Australian National University Canberra, Australia

Master of Computing (Advanced) **July 2016 - July 2018**

- Thesis Topic: *The Bot Among Us: Disrupting Truth and Reason Through Online Social meida*
- Major: Artificial Intelligence
- Advisor: Dr. Marian-Andrei Rizoiu

Zhengzhou University (211) Zhengzhou, China

B.S. in Electrical Engineering **Sep 2012 - July 2016**

WORK
EXPERIENCE

Alibaba Group Hangzhou, China

Senior R& D Engineer **May 2019 - Current**

- Improve information retrieval system on large corpus via discrete representation learning
- Model user shopping behavior via Graph Neural Network(GNN) for online recommendation

JD Finance Beijing, China

R& D Engineer **July 2018-May 2019**

- Applied machine learning and data mining techniques on big data to assist business development in the area of financial fraud detection, recommendation system and social graph analytic
- Developed a series of Privacy-Preserving Machine Learning (PPML) techniques that fit General Data Protection Regulation (GDPR), leaded the process of proof of concept in different projects with finance sectors and conduct successful POC test among bank and E-commence company

Computational Media Lab @ ANU Canberra, Australia

Lab Member **Aug 2016 - June 2018**

- Develop tools and method on understanding online social media phenomena via network analysis

Data61 (previously known as NICTA) Canberra, Australia

Research Intern **Nov 2016 - March 2017**

- Work on project of building social-bot detection system via graph neural network

PUBLICATIONS

[1] **Zhang, Y.** and Zhu, H., (2020, june). Additively Homomorphical Encryption based Deep Neural Network for Asymmetrically Collaborative Machine Learning. In thirty-fourth Conference on Neural Information Processing Systems **(submit to NeurIPS 2021)**

[2] **Zhang, Y.** and Zhu, H., (2020, May). Discrete Wasserstein Autoencoders for Document Retrieval,. In 2020 IEEE International Conference on Acoustics, Speech and Signal Processing **ICASSP'20)**

[3] **Zhang, Y.** and Zhu, H., (2019, June). Doc2hash: Learning Discrete Latent variables for Documents Retrieval. In Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, (**NAACL'19**) **PDF**.

[4] **Zhang, Y.** and Zhu, H. Deep Neural Network for Asymmetrically Collaborative Machine Learning with Additively Homomorphic Encryption In The 1st International Workshop on Federated Machine Learning for User Privacy and Data Confidentiality **(IJCAI'19) PDF**

[5] Rizoiu, M. A., Graham, T., Zhang, R., **Zhang, Y.**, Ackland, R., Xie, L. (2018, June). #DebateNight: The Role and Influence of Socialbots on Twitter During the 1st 2016 US Presidential Debate. In Twelfth International AAAI Conference on Web and Social Media.**(ICWSM'18) PDF**