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INFO	E-mail: yifeiacc@gmail.com (Personal), yfzhang@cse.cuhk.edu.hk (School)
EDUCATION	<p>Chinese University of Hong Kong Aug. 2020 - July 2024 (Excepted) <i>Ph.D. Student of Computer Sci. & Eng. advised by Prof. Irwin King</i> HongKong, China</p> <p>Australian National University July 2016 - July 2018 <i>M.S. in Computer Science</i> Canberra, Australia</p> <p>ZhengZhou University Sep. 2012 - July 2016 <i>B.S. in Electrical Engineering</i> ZhengZhou, China</p>
EXPERIENCE	<p>Alibaba Group Hangzhou, China <i>Senior R&D Engineer</i> May 2019 - Aug. 2020</p> <ul style="list-style-type: none"> • Improve the information retrieval system of Taobao. • Model user shopping behavior via Graph Neural Network(GNN) for online recommendation. <p>JD.com July 2018-May 2019 <i>R&D Engineer</i> Beijing, China</p> <ul style="list-style-type: none"> • 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[8] that fit General Data Protection Regulation (GDPR). (Partial solutions have been public and implemented by an open source project(FATE.) <p>Data61 (Previously known as NICTA) Canberra, Australia <i>Research Intern</i> Nov. 2016 - Mar. 2017</p> <ul style="list-style-type: none"> • Work on the project of building social bot detection systems via graph neural network • Develop method quantifying the role and influence of social bots in the democratic process[6].
CONFERENCE PUBLICATIONS	<p>[1] Zhang Y., Zhu, H., Song, Z., Koniusz, P. and King, I., 2022, April. Graph-adaptive Rectified Linear Unit for Graph Neural Networks. In Proceedings of The Web Conference 2022 (TheWebConf'22).</p> <p>[2] Song, Z., Meng, Z., Zhang, Y., & King, I. (2021, October). Semi-supervised Multi-label Learning for Graph-structured Data. In Proceedings of the 30th ACM International Conference on Information & Knowledge Management (CIKM'21).</p> <p>[3] 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)</p> <p>[4] 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)</p> <p>[5] 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 (FML-IJCAI'19)</p> <p>[6] 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)</p>
ARXIV PREPRINT	<p>[7] Chen, Y., Zhang, Y., Zhang, Y., Guo, H., Li, J., Tang, R., He, X. and King, I., 2021. Towards Low-loss 1-bit Quantization of User-item Representations for Top-K Recommendation. arXiv preprint. arXiv:2112.01944.</p> <p>[8] Zhang, Y. and Zhu, H., 2020. Additively homomorphical encryption based deep neural network for asymmetrically collaborative machine learning. arXiv preprint arXiv:2007.06849.</p>

TEACHING

- CSCI3150: Computer Science and society Spring 2022
- CSCI5650: Graph Neural Networks Autumn 2021
- CSCI3150: Computer Science and society Spring 2021
- CSCI1130: Introduction to Computing Using Java Autumn 2020

ACADEMIA SERVICES

- External Reviewer for conferences: WebConf(WWW)'22, AAAI'21, CIKM'21, NIPS'21.
- External Reviewer for journals: TKDE, Neurocomputing

AWARD

- Hong Kong Postgraduate Studentships Autumn 2020
- Notional Scholarship Autumn 2015