

YUE YU

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Address: CODA Building, 756 W Peachtree St NW, Atlanta, GA

EDUCATION

Georgia Institute of Technology

Ph.D. in Computational Science and Engineering

Atlanta, GA, USA

Aug 2019 - present

- **Ph.D. Advisor:** Dr. Chao Zhang;
- **GPA:** 4.0/4.0;
- **Research Interest:** Text Mining, Applied Machine Learning, Information Extraction.

Tsinghua University

B.Eng. in Electronic Engineering

Beijing, China

Aug 2015 - July 2019

- **GPA:** 3.87/4.00 (**Rank:** 5/246, Outstanding Undergraduate) ;
- **Research Assistant** in the Future Internet & Communication Lab advised by Dr. Yong Li.

RESEARCH EXPERIENCE

Georgia Institute of Technology

Research Assistant, advised by Dr. Chao Zhang

Atlanta, GA, USA

Aug 2019 - present

- Working on two research thrusts:
 - (a) Knowledge extraction from text data in low-resource settings: Taxonomy construction, Named entity recognition;
 - (b) Utilizing knowledge as weak supervision for label-efficient learning: Fine-Tuning language models, Self-training.

University of Illinois at Urbana Champaign

Research Assistant, advised by Dr. Bo Li

Beijing, China / Urbana, IL, USA (Remote)

July 2018 - Sep 2018

- Designed a graph generation method with a link prediction approach to improve the robustness of graph neural networks.

Tsinghua University

Research Assistant, advised by Dr. Yong Li

Beijing, China

Dec 2017 - July 2019

- Worked on the following research thrusts:
 - (a) Urban Mobility Modeling: Urban mobility analysis via state-sharing hidden markov models;
 - (b) Cross-domain Recommender Systems: Privacy-preserving cross-domain location recommendation;
 - (c) App Usage Modeling: Context-aware representations learning for Apps with via graph convolutional networks.

PUBLICATIONS

(* stands for equal contribution)

1. **Yue Yu**, Yinghao Li, Jiaming Shen, Hao Feng, Jimeng Sun and Chao Zhang, "**STEAM: Self-Supervised Taxonomy Expansion via Path-Based Multi-View Co-Training**", In *Proceedings of the 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2020.
2. Chen Liang*, **Yue Yu***, Haoming Jiang*, Siawpeng Er, Ruijia Wang, Tuo Zhao and Chao Zhang, "**BOND: Bert-Assisted Open-Domain Named Entity Recognition with Distant Supervision**", In *Proceedings of the 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2020.
3. **Yue Yu***, Tong Xia*, Huandong Wang, Jie Feng and Yong Li, "Semantic-aware Spatio-temporal App Usage Representation via Graph Convolutional Network", In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2020.
4. Mingyang Zhang, Tong Li, **Yue Yu**, Yong Li, Pan Hui and Yu Zheng, "**Urban Anomaly Analytics: Description, Detection and Prediction**", In *IEEE Transactions on Big Data*, 2020.
5. Tong Xia*, **Yue Yu***, Fengli Xu, Funing Sun, Diansheng Guo, Depeng Jin and Yong Li, "**Understanding Urban Dynamics via State-sharing Hidden Markov Model**", in *Proceedings of the Web Conference (WWW)*, 2019. (Extended version accepted to IEEE TKDE)
6. Chen Gao, Chao Huang, **Yue Yu**, Huandong Wang, Yong Li and Depeng Jin, "**Privacy-preserving Cross-domain Location Recommendation**", in *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, 2019.

AWARDS

- Excellent Graduate, Tsinghua University & Beijing City (Top 2% over 3292 graduate students) July 2019
- Comprehensive Scholarship, Tsinghua University (Top 1%) Oct 2018
- Award from Tsinghua University Initiative Scientific Research Program (5000 USD) May 2018
- Comprehensive Scholarship, Tsinghua University (Top 5%) Oct 2017
- Comprehensive Scholarship, Tsinghua University (Top 5%) Oct 2016

PROFESSIONAL SKILLS

- **Programming language:** C++, Python, MATLAB, Linux/Unix, SQL, Verilog, Latex.
- **Deep learning frameworks:** Keras, Pytorch.

TEACHING AND REVIEWING EXPERIENCE

- **Teaching Experience:** TA for CX4240: Introduction to Computational Data Analysis (Jan 2020 - May 2020).
- **Reviewing Experience:** Reviewer for AAAI 2020, CIKM 2019.