Yu Chen | Curriculum Vitae

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Education

Rensselaer Polytechnic Institute — **Troy, NY**
Ph.D in Computer Science — Aug. 2015 - May. 2020 (expected)

The University of Michigan-Dearborn — **Dearborn, MI**
Exchange student in Computer & Information Science — Sep. 2014 - Dec. 2014

The University of Electronic Science and Technology of China — **Chengdu, China**
B.Eng. in Communication Engineering — Sep. 2011 - Jul. 2015

Honors & Awards

Student Travel Award of SIGKDD 2017
ACM SIGKDD — Jul. 2017

Second Place at the 2016 DataThon
Rensselaer Polytechnic Institute — Apr. 2016

The First-Class People's Scholarship
The University of Electronic Science and Technology of China — 2012 - 2013 & 2013 - 2014

National Scholarship
Ministry of Education of China, Top 1.6 % — 2011 - 2012

Research & Work Experience

Graduate Research Assistant, RPI — **Troy, NY**
Advisor: Prof. Mohammed J. Zaki — May. 2017 - Present

Graduate Teaching Assistant, RPI — **Troy, NY**
Aug. 2015 - May. 2017

Python Web Developer at Microoh — **Chengdu, China**
Mar. 2015 - May. 2015
Implemented a personalized learning management system for online education.

Research Assistant in the Virtual Engineering Laboratory, UM-Dearborn — **Dearborn, MI**
Advisor: Prof. Jie Shen — Sep. 2014 - Dec. 2014

Research Assistant in the Web Sciences Center, UESTC — **Chengdu, China**
Advisor: Prof. Tao Zhou — May. 2014 - Jul. 2014
Discovered interesting patterns of human behaviors with temporal dynamics in social networks. More information here.

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Projects

Comparative analytics for topic modeling in banking **Troy, NY**
Rensselaer Polytechnic Institute Feb. 2017 - Jul. 2017
Applied topic modeling approaches to predict bank failures using a large set of SEC filings made by US public banks.

Unsupervised cluster labeling **Troy, NY**
Rensselaer Polytechnic Institute, Advisor: Prof. Heng Ji Oct. 2016 - Dec. 2016
Designed an unsupervised algorithm which can automatically pick descriptive, human-readable labels for the clusters of entities by learning to predict hyper-hyponym relationships via word embeddings.

Evaluating countries and products in international trade **Troy, NY**
Rensselaer Polytechnic Institute Apr. 2016
Designed an evolutionary bipartite graph approach to evaluate which countries do better and which products are more valuable in international trade. More information here.

Predicting whose papers are accepted the most **Troy, NY**
Rensselaer Polytechnic Institute, Advisor: Prof. Mohammed J. Zaki Mar. 2016 - May. 2016
Designed multi-layered graph mining techniques to rank research institutes based on their predicted number of accepted papers in the incoming top conferences.

Finding email correspondents in online social networks. **Chengdu, China**
The University of Electronic Science and Technology of China Mar. 2015 - May. 2015
Designed an effective algorithm which can help find email correspondents in online social networks by leveraging user profiles and network structures. More information here.

Publications

1. Yu Chen, Rhaad M. Rabbani, Aparna Gupta and Mohammed J. Zaki. Comparative Text Analytics via Topic Modeling in Banking. In Proceedings of the 2017 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2017), Hawaii, USA, Nov 27-Dec 1, 2017.
2. Yu Chen and Mohammed J. Zaki. KATE: K-competitive Autoencoder for Text. In Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Halifax, Nova Scotia, Canada, August 13-17, 2017. Full Oral Paper. Acceptance rate=8.6% (64 out of 748).
3. Yu Chen, Hao Chen and Jie Shen. Fast Voxel-based Surface Propagation Method for Outlier Removal. In Proceedings of the 13th International CAD Conference, Vancouver, BC, Canada, June 27-29, 2016.

Skills

Research: Data Mining, Machine Learning, Natural Language Processing

Programming: Python = C/C++ > Matlab > Java = R = Scheme = JavaScript = PHP

Software: Linux, Database, AWS, Keras, Tensorflow

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