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 human behavior patterns with temporal dynamics in social networks. More information here.

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Projects

Personalized search and recommendation for health empowerment   **Troy, NY**
Rensselaer Polytechnic Institute, Advisor: Prof. Mohammed J. Zaki   May. 2017 - Present
Developed a novel memory network-based question answering system to answer factoid questions by leveraging knowledge graphs.

Unsupervised cluster labeling   **Troy, NY**
Rensselaer Polytechnic Institute, Advisor: Prof. Heng Ji   Oct. 2016 - Dec. 2016
Designed an unsupervised algorithm to 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 by predicting the number of accepted papers in 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 to 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, Keras, Tensorflow, Pytorch

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