

Yu Chen | Curriculum Vitae

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Education

Rensselaer Polytechnic Institute <i>Ph.D in Computer Science</i>	Troy, NY AUG. 2015 - MAY. 2020 (EXPECTED)
The University of Michigan-Dearborn <i>Exchange student in Computer & Information Science</i>	Dearborn, MI SEP. 2014 - DEC. 2014
The University of Electronic Science and Technology of China <i>B.Eng. in Communication Engineering</i>	Chengdu, China SEP. 2011 - JUL. 2015

Honors & Awards

Student Travel Award of SIGKDD 2017 <i>ACM SIGKDD</i>	JUL. 2017
Second Place at the 2016 DataThon <i>Rensselaer Polytechnic Institute</i>	APR. 2016
The First-Class People's Scholarship <i>The University of Electronic Science and Technology of China</i>	2012 - 2013 & 2013 - 2014
National Scholarship <i>Ministry of Education of China, Top 1.6 %</i>	2011 - 2012

Research & Work Experience

Graduate Research Assistant, RPI <i>Advisor: Prof. Mohammed J. Zaki</i>	Troy, NY MAY. 2017 - PRESENT
Graduate Teaching Assistant, RPI	Troy, NY AUG. 2015 - MAY. 2017
Python Web Developer at Microoh Implemented a personalized learning management system for online education.	Chengdu, China MAR. 2015 - MAY. 2015
Research Assistant in the Virtual Engineering Laboratory, UM-Dearborn <i>Advisor: Prof. Jie Shen</i>	Dearborn, MI SEP. 2014 - DEC. 2014
Research Assistant in the Web Sciences Center, UESTC <i>Advisor: Prof. Tao Zhou</i> Discovered interesting human behavior patterns with temporal dynamics in social networks. More information here .	Chengdu, China MAY. 2014 - JUL. 2014

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

Preprints.....

1. **Yu Chen**, Lingfei Wu and Mohammed J. Zaki, Reinforcement Learning Based Graph-to-Sequence Model for Natural Question Generation.
2. **Yu Chen**, Lingfei Wu and Mohammed J. Zaki, GraphFlow: Exploiting Conversation Flow with Graph Neural Networks for Conversational Machine Comprehension.

Conference Publications.....

1. Steven Haussmann, **Yu Chen**, Oshani Seneviratne, Nidhi Rastogi, James Codella, Ching-Hua Chen, Deborah McGuinness, Mohammed J. Zaki, FoodKG Enabled Q&A Application. **In Proceedings of the 18th International Semantic Web Conference (ISWC 2019)**, Auckland, New Zealand, Oct. 26-Oct. 30, 2019.
2. Steven Haussmann, Oshani Seneviratne, **Yu Chen**, Yarden NeâĂžeman, James Codella, Ching-Hua Chen, Deborah L. McGuinness and Mohammed J. Zaki, FoodKG: A Semantics-Driven Knowledge Graph for Food Recommendation. **In Proceedings of the 18th International Semantic Web Conference (ISWC 2019)**, Auckland, New Zealand, Oct. 26-Oct. 30, 2019.
3. **Yu Chen**, Lingfei Wu and Mohammed J. Zaki. GraphFlow: Exploiting Conversation Flow with Graph Neural Networks for Conversational Machine Comprehension. **In ICML 2019 Workshop on Learning and Reasoning with Graph-Structured Representations (ICML LRG 2019)**, Long Beach, CA, June 9-June 15, 2019.
4. **Yu Chen**, Lingfei Wu and Mohammed J. Zaki. Bidirectional Attentive Memory Networks for Question Answering over Knowledge Bases. **In Proceedings of the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2019)**, minneapolis, MN, June 2-June 7, 2019. Long Oral Paper.

5. **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.
6. **Yu Chen** and Mohammed J. Zaki. KATE: K-competitive Autoencoder for Text. **In Proceedings of the 23rd International Conference on Knowledge Discovery and Data Mining** (ACM SIGKDD 2017), Halifax, Nova Scotia, Canada, August 13-17, 2017. Full Oral Paper. Acceptance rate=8.6% (64 out of 748).
7. **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.

Journal Publications.....

1. Hao Chen, **Yu Chen**, Xu Zhang, Baiyuan Li, Xiaoqiang Liu, Xuefei Shi and Jie Shen. A Fast Voxel-based Method for Outlier Removal in Laser Measurement. **In International Journal of Precision Engineering and Manufacturing**, 2019.

Patents

1. Lingfei Wu, **Yu Chen**, Mohammed J. Zaki. Method and System for Conversational Machine Reading Comprehension via Graph Neural Networks. To be filed, 2019.

Skills

Research: Machine Learning, Deep Learning, Natural Language Processing, Data Mining

Programming: PYTHON = C/C++ > MATLAB > JAVA = R = SCHEME = JAVASCRIPT = PHP

Software: Linux, Database, PyTorch, TensorFlow, Keras