

# Yu Chen | Curriculum Vitae

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## Education

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

## Honors & Awards

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

## Research & Work Experience

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

## Projects

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### 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

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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**, Aparna Gupta, Rhaad M. Rabbani and Mohammed J. Zaki. Comparative Analytics for Topic Modeling in Banking. In World Finance and Banking Symposium, Bangkok, Thailand, December 2017.
3. **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).
4. **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

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

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

**Software:** Linux, Database, AWS, Keras, Tensorflow