Zeyao (Patrick) Yang

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Education

Indiana University Bloomington, IN, USA. (GPA:3.88/4.00) Aug 2013 - May 2015
Master of Science in Computer Science, School of Informatics and Computing.

Jilin University, Jilin, China. (GPA:87.5/100) Sept 2009 - Jun 2013
Bachelor of Science in Computer Science, College of Computer Science and Technology.

Skills

Language: C/C++, Python, Scheme, Matlab, SQL, HTML, JAVA.
Theory: Statistical Modeling, Algorithms, Data Structure, Object Oriented Design.
Operating Systems: Mac OS, Linux, Windows.

Teaching Experience

Associate Instructor Sept 2013 - Jun 2014
CSCI A110: Introduction to Computers and Computing, Indiana University Bloomington
- Helped the professor with the course preparation and graded students' homework.

Projects

Sentiment and Information Diffusion in Social Media Jun 2014 - Mar 2015
Indiana University Bloomington, Research Assistant
- Analyzed millions of tweets using Python, and found tweets with positive sentiment can attract more retweets and favorites while it usually takes longer to get first retweet.
- Classified hashtags according to their development pattern, and found positive tweets are better indicator for the development pattern of hashtags.
- Reconstructed users' home timeline using Twitter API and found people are more likely to publish tweets with as same sentiment as their followees.

Recommendation System for How to Get to Know Someone Jan 2014 - May 2014
Indiana University Bloomington
- Constructed data structure for information collected from classmates by survey.
- Built a CBR-based recommendation system using C++, which could successfully predict how students in the course B501 know each other.

Recreational Sports Club Management System Aug 2013 - Dec 2014
Indiana University Bloomington
- Completed requirement analysis and decided what functions the system equips.
- Designed and developed website for a sports club management system using HTML.

Link Prediction Basing on Differentiated Common Neighbors Sept 2012 - Apr 2013
Key Laboratory of Symbolic Computation and Knowledge Engineering, Jilin University
- Designed a way to evaluate the importance of each neighbor using link density, and improved the accuracy of common neighbor algorithm by 25%.
- Employed the Markov Chain to converge networks to equilibrium.

National Undergraduate Innovation Experiment Program May 2011 - Sept 2012
Jilin University
- Implemented and revised three similarity-based Link Prediction methods using C++, fully utilizing weight information in networks.
- Proposed a new Link Prediction method by combining three revised methods, achieving higher accuracy.

Publications

Emilio Ferrara,* **Zeyao Yang**,* Alessandro Flammini. Sentiment and Information Diffusion in Social Media. In preparation for PLoS ONE.

Emilio Ferrara,* **Zeyao Yang**,* Alessandro Flammini. Emotional Contagion in Social Media. In preparation for PLoS ONE.

Zeyao Yang, Damou Fu, et al. Link Prediction Based on Weighted Networks. In AsiaSim 2012, pp. 119-126. Springer Berlin Heidelberg, 2012.

*These authors contributed equally to this work.