Xing Yu

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EDUCATION

INDIANA UNIVERSITY AT INDIANAPOLIS

Ph.D. Informatics
Minor in Computer Science
Started Aug 2014
Expected May 2019 | GPA: 4.00
Advised by Dr. Erin Brady

ZHEJIANG UNIVERSITY

B.S. Psychology
Aug 2004 - Jun 2008
Hangzhou, China

COURSEWORK

Data Mining
Cloud Computing for Data Sci
Algorithm Design
Cryptography
Database
Social Computing

AWARDS

Google Student Award@
W4A Conference 2016 •
Funded Participant@
HCIC Conference 2017 •
Prestigious Non-resident
Scholarship@
Indiana University 2014 to 2019

TEACHING

Introduction to Informatics
Instructor, 2017-2018 •
Collaborative and Social Computing
TA, 2016

PROGRAMMING

Python • R • C • C++ • Java •
HTML • CSS • Javascript • SQL
Hadoop • D3 • Tensorflow

INTERN

HEWLETT-PACKARD, SHANGHAI, CHINA, 2009

Participating in a field research on computer form factors in 7 cities across the mainland China.

WASU MEDIA, HANGZHOU, CHINA, 2008

Participating a field research on Interactive TV operating system design in Hangzhou.

EXPERIENCE

GRADUATE RESEARCH ASSISTANT | School of Informatics and Computing, Indiana University at Indianapolis, USA

Aug 2014 - Present | Indianapolis, IN

- Conducting NER based on word embedding to identify disability problems on social media posts.
- Designing semi-supervised learning models on real world dataset to identify social media users with disabilities.
- Applying data mining techniques on social media data to study information diffusion patterns on social media websites.
- Conducting transaction logs analyses on data from a search engine to study user behavior on e-commercial websites.

GRADUATE TEACHING ASSISTANT | School of Informatics and Computing, Indiana University at Indianapolis, USA

Aug 2016 – Present | Indianapolis, IN

- Teaching one undergraduate course (Intro to Informatics) for two consecutive years. Responsible for course planning, creating materials/exams/assignments, teaching in person for two classes each week, holding office hours, and grading assignments.
- Assistant teaching to two courses in the school with assignments grading.

DIRECTOR | Dept. of Strategy and Innovation, Haina Corperation, Ningbo, China

2009 - 2013 | Ningbo, China

- Leading the group that is responsible for designing and implementing database softwares used internally in the company.

PROJECT EXPERIENCE

IDENTIFYING ACCESSIBILITY PROBLEMS ON SOCIAL MEDIA

Fall 2018 | Dissertation Work | Indiana University
Identifying key phrases related to people, assistive technologies, and location in online posts authored by users with disabilities using word embedding and neural networks.

CLASSIFYING ONLINE USERS WITH DISABILITIES

Fall 2017 | Dissertation Work | Indiana University
Designing a co-training model that combines a varied label propagation (on bipartite graphs) algorithm and an naive-Bayes algorithm to efficiently classify online users who have disabilities.
Spring 2017 | Dissertation work | Indiana University
Extracting and evaluating textual features and community features using LDA/LIWC and Random Walk based graph clustering on data from social media.

IMPLEMENTING A P2P VOTING SYSTEM

Fall 2018 | Independent Study | Indiana University
Implementing a web based multi-user voting system, which uses (n,n) secret sharing mechanism to maintain information security, using python.

COMPARING INFORMATION DIFFUSION PATTERNS

Spring 2016 | Independent Study | Indiana University
Using random-walk based graph-clustering algorithm to extract community base features, whose importance were evaluated and compared between Twitter and Weibo in terms of topics diffusion.

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PUBLICATIONS

• Yu, X. Brady, E. Understanding and Classifying Online Users with Physical Disabilities on Reddit. Proceedings of the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2017 (New York, NY, USA), ASONAM '17, ACM, 2017, pp. 17–22.

• Niu, X. Li, C. and Yu, X.(2017), Predictive analytics of e-commerce search behavior for conversion. In Proceedings of the 22nd Americas Conference on Information Systems.

• Xia, T., Yu, X., Gao, Z., Gu Y., Liu, X. Internal/External Information Access and Information Diffusion in Social Media. In Proceedings of the 2017 iConference 2(2017), 129-133.

• Jia, Y.,Liu, Y., Yu, X., Voida. S., Designing Leaderboards for Gamification: Perceived Differences Based on User Ranking, Application Domain, and Personality Traits, CHI2017, ACM.

• Niu, X., Yu, X. (2016). Exploring Customers' Search Behavior on a Large E-Commerce Website. In Proceedings of the 22nd Americas Conference on Information Systems.

• Liu, X., Yu, X., Gao, Z., Xia, T., Bollen, J. (2016, July). Comparing Community-based Information Adoption and Diffusion Across Different Microblogging Sites. In Proceedings of the 27th ACM Conference on Hypertext and Social Media (pp. 103-112). ACM.

• Yu, X. (2016, April). Using data from social media websites to inspire the design of assistive technology. In Proceedings of the 13th Web for All Conference (p. 38). ACM.

PRESENTATIONS

• Paper Presentation: "Understanding and Classifying Online Users with Physical Disabilities on Reddit"
Aug 2017 | The 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining | Sydney, Australia

• Poster: "Using Social Media Websites to Inform the Design of Assistive Technology"
June 2017 | Human Computer Interaction Consortium (HCIC) conference 2017 | Pajaro Dunes Resort, Watsonville, CA, USA

• Doctoral Consortium: "Using Data from Social Media Websites to Inspire the Design of Assistive Technology"
Apr 2014 | Proceedings of the 13th Web for All Conference | Montréal Québec, Canada