Linzi Xing

Homepage: http://deanxing.net
Github: https://github.com/lxing532
Email: Linzi.Xing@colorado.edu | Telephone: 303.875.0929

RESEARCH INTERESTS

Natural Language Processing, Machine Learning, Computational Social Science, Data Mining

EDUCATION

UNIVERSITY OF COLORADO BOULDER | MS in Computer Science
Expected May 2018 | Boulder, CO • Cum. GPA: 3.88/4.0
Advisor: Michael J. Paul

SOOCHOW UNIVERSITY | BS in Management Information System
Sep 2012 – June 2016 | Suzhou, China • Cum. GPA: 3.70 / 4.0 (1/40)
Advisor: Li Zhang | Thesis: Application of Sparse Representation Classifier on Cancer Gene Data

UNIVERSITY OF WISCONSIN MADISON | Visiting Student in Computer Science
Aug 2015 – Dec 2015 | Madison, WI • Cum. GPA: 3.75/4.0

PUBLICATIONS

DIAGNOSING AND IMPROVING TOPIC MODELS BY ANALYZING POSTERIOR VARIABILITY
Linzi Xing and Michael J. Paul
The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, USA. February 2018

INCORPORATING METADATA INTO CONTENT-BASED USER EMBEDDINGS
Linzi Xing and Michael J. Paul
EMNLP Workshop on Noisy User-generated Text (W-NUT), Copenhagen, Denmark. September 2017

EXPLORING TIMELINES OF CONFIRMED SUICIDE INCIDENTS THROUGH SOCIAL MEDIA
Xiaolei Huang, Linzi Xing, Jed R. Brubaker, Michael J. Paul
IEEE International Conference on Healthcare Informatics (ICHI), Park City, Utah. August 2017

RESEARCH EXPERIENCES

RESEARCH ASSISTANT | College of Media, Communication and Information
Summer 2017 | Boulder, CO | Supervisor: Michael J. Paul

- Investigated what kinds of characteristics about topics can be learned from the posterior of the parameters, like how LDA topic parameters change across different posterior samples during Gibbs sampling process.
- Proposed new methods to diagnose and improve LDA topic quality by taking advantage of the posterior samples fluctuation during Gibbs sampling process.
- Re-implemented codes about topic quality evaluation and topic alignment mentioned in other referenced papers with Python and designed the analytical experiments about this project.
- Lead to a paper accepted by AAAI-18 Conference.

INDEPENDENT STUDY | Computer Science Department
Jan 2017 – May 2017 | Boulder, CO | Supervisor: Michael J. Paul

- Proposed a data augmentation method that allowed novel feature types to be used within off-the-shelf embedding models such as paragraph2vec.
- Collected 5000 Twitter users' Tweets posted during January 2017 and their profiles using Twitter REST and Streaming API. Preprocessed data with state-of-the-art tools like Carmen.
- lead to a paper accepted by W-NUT(2017) workshop.

UNDERGRAD RESEARCHER | Research Lab of Machine Learning
Apr 2014 – Aug 2015 | Soochow University, Suzhou, China | Supervisor: Li Zhang

- Assisted in designing a classifier to classify individual gene data to the correct class using the Sparse Representation Method. This project was recognized as key project.
- Applied Sparse Representation method on Tweets and designed relative efficient predictor to detect information missed in Twitter users' profiles, like geolocation.
- Did some research about the Group Sparse Coding Method and Nonlinear Nearest Subspace Classifier.

PROFESSIONAL EXPERIENCES

SOFTWARE ENGINEERING INTERN | LKHEALTH.CN
Spring 2016 | Suzhou, China

- Contributed to the project on-line pharmacy with Yii (a PHP framework) and built a simple back-end framework which was used to retrieve pharmacies' events and activities.
- Adjusted the template style in the views which were generated by default in Gii and redesigned some views to make them more user-friendly.
- Designed and adjusted some front-end pages' styles adopted from Bootstrap.

AWARDS/HONORS

OUTSTANDING GRADUATES | Soochow University
May 2016 | Suzhou, China

OUTSTANDING UNDERGRAD STUDENT SCHOLARSHIP | China Scholarship Council(CSC)
Apr 2015 | Beijing, China

CW CHU SCHOLARSHIP | Soochow University
Oct 2014 | Suzhou, China | Top 1% Academic Excellence

ACADEMIC EXCELLENCE SPECIAL PRIZE | Soochow University
Oct 2014 | Suzhou, China | Top 3% Academic Excellence

SKILLS

PROGRAMMING SKILLS
Python • MATLAB • Java • LaTeX

WEB RELATED
HTML/CSS • Javascript • d3.js • dc.js • PHP

OTHER TOOLS
NLTK • Gensim • Scipy • Tensorflow

STANDARDIZED TESTS

IELTS
Total: 7.5 (8, 7, 7, 7.5)

GRE
154+168+3.0