YUE SU

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PROFILE HIGHLIGHTS

- Observant analyst and researcher with 2 years experiences of ***data mining***, ***data visualization*** and ***rational database management*** in ***Computational Social Science*** area; gaining familiarity with ***statistical principles*** and its application
- Principal contributor of 3 scientific projects funded by ***NSF (National Science Foundation)***

EDUCATION

M.S. in Information Science (Big Data Analytics), University of Pittsburgh, Pittsburgh, PA — GPA: 3.61/4.00, May 2017

B.E. in Software Engineering, Xidian University, Xi'an, China — Major GPA: 3.45/4.00, July 2015

PUBLICATION

Su, Y., Robin, L., Lin, Y.-R., ***Nuclear Incidents Visual Analysis for Anomaly Observing and Monitoring***, iConference 2018, 2017 (Submitted)

Su, Y., Lan, Z., Lin, Y.-R., Comfort, L., Joshi, J, ***Tracking Public Response and Relief Following the 2015 Nepal Earthquake***, IEEE International Workshop on Collaborative Internet Computing for Disaster Management, 2016

WORK EXPERIENCE

Research Intern, University of Pittsburgh, Pittsburgh, — May 2017 – Oct 2017

- Combined with ***machine learning*** and ***visualization techniques***, presented a comprehensive system to visualize ***U.S. nuclear event***, then gave alarm for events classified as high suspicious by predictive classification model.
- Built user-friendly system to ***track movements of U.S. policies***, helping researchers, public officials and relevant stakeholders understand how to balance the competing goals of innovation and consistency in public policy.

Research Assistant, *University of Pittsburgh, Pittsburgh, PA* — June 2016 – Jan 2017

- Novelly discovered causes of slow disaster recovery following ***2015 Nepal Earthquake***, including gaps of pledged and paid donations, and regional inequity on supports distributions. Found patterns of ***media response*** and ***disaster management***.
- Based on ***2013 Boston Marathon Bombing***, test how emotionally potent ***media coverage*** of a real-world threat alters ***threat perception***.

Teaching Assistant (Data Mining), *University of Pittsburgh, Pittsburgh, PA* — Aug 2016 – Apr 2017

PROJECTS

Tracking Public Response and Relief Following the 2015 Nepal Earthquake (funded by NSF) *link* — June 2016 – Sep 2016

- Retrieved news reports, transaction data, and citizen survey of 2015 Nepal Earthquake by ***R language*** and ***Python***.
- Conducted analysis in ***R platform*** with 3 aspects: public response in news report, international and domestic support, and relationship between people's attitudes and reconstruction progress.

Anomaly Monitoring for National Nuclear Incidents in United States (funded by NSF) *link* — Mar 2017 – Sep 2017

- Structurized dataset. Tokenize event description text to corpus, then select features by calculating ***TF-IDF***, ***BNS score***, and ***Chi-square test***;
- Apply machine classifiers of ***one-SVM***, ***SVM***, ***Stochastic Gradient Descent***.
- Compared with standard method, ultimately improve ***accuracy by 22%***, as well as ***AUC value by 132%***.

Visual Analysis for Latent Networks of Policy Diffusion in United States (funded by NSF) *link* — Jan 2017 – Aug 2017

- Designed system mockup using ***Sketch***.
- Applied NetInf algorithm in ***R platform*** to infer U.S. policy diffusion networks.
- Deployed and maintained network data, policy data, and metadata of each states into database using ***MySQL*** and ***AWS***.
- Implemented geographical and hierarchical view Using ***Python***, ***d3.js***, ***JavaScript***, and ***HTML&CSS***.

Sushi: Visualization System for Exploring and Comparing World University Rankings *link* — Aug 2015 – Nov 2015

- Designed and built information visualization system to explore university rankings based on U.S. News and Q.S. datasets.
- Created visualizations (dual axes bar chart, parallel coordinates, scatterplot) using ***AJAX technology***, ***d3.js***, and ***UI library jQuery, Bootstrap***.
- Helped research on Chinese education, awarded ***Taraknath Das Foundation Prize Award*** for best paper written in 2017 academic year.

Media Perception Analytics Based on News Reports of 2013 Boston Marathon Bombing *link* — Sep 2016 – Nov 2016

- Retrieved URLs of ***Google News*** using ***Python*** and ***R***.
- Utilized ***jsoup*** in ***JAVA*** to parse news URLs and collect contents for news article.
- Counted group of keywords in each articles to indicate how would they influence readers.