Binxuan Huang

Office: Wean Hall 4215
School of Computer Science
Carnegie Mellon University
Pittsburgh, PA, 15213

Email : binxuanh@cs.cmu.edu
binxuanhuang@gmail.com
Website: binxuan.github.io
Mobile : +1-412-652-8661

Research Interests

Natural language processing, computational social science, machine learning, social network analysis.

Education

Carnegie Mellon University *Pittsburgh, U.S.*
Institute for Software Research, School of Computer Science
Ph.D. in Societal Computing, advised by Prof. Kathleen M. Carley *2015-Present*
Zhejiang University *Hangzhou, China*
B.S. in Physics *2015*
B.E. in Computer Science *2015*

Experience

Applied Scientist Intern *Amazon Alexa AI, Summer 2019*
Developed an entity linking system and improved Alexa's NLU performance with knowledge graph.
Research Assistant *CASOS, Carnegie Mellon University, 2015-Present*
Advisor: Prof. Kathleen M. Carley
Research Assistant *AI Lab, Zhejiang University, 2014-2015*
Advisor: Prof. Xiaogang Jin

Publications

•Peer Reviewed Papers

Syntax-Aware Aspect Level Sentiment Classification with Graph Attention Networks
Binxuan Huang and Kathleen M. Carley, EMNLP 2019 (to appear)

A Hierarchical Location Prediction Neural Network for Twitter User Geolocation
Binxuan Huang and Kathleen M. Carley, EMNLP 2019 (to appear)

A Large-Scale Empirical Study of Geotagging Behavior on Twitter
Binxuan Huang and Kathleen M. Carley, ASONAM 2019 (to appear)

Location Order Recovery in Trails with Low Temporal Resolution
Binxuan Huang and Kathleen M. Carley, IEEE Transactions on Network Science and Engineering

Parameterized Convolutional Neural Networks for Aspect Level Sentiment Classification
Binxuan Huang and Kathleen M. Carley, EMNLP 2018

Aspect Level Sentiment Classification with Attention-over-Attention Neural Networks
Binxuan Huang, Yanglan Ou and Kathleen M. Carley, SBP-BRiMS 2018

On Predicting Geolocation of Tweets Using Convolutional Neural Networks
Binxuan Huang and Kathleen M. Carley, SBP-BRiMS 2017

RATE: Overcoming Noise and Sparsity of Textual Features in Real-Time Location Estimation
Yu Zhang, Wei Wei, **Binxuan Huang**, Kathleen M Carley, Yan Zhang, CIKM 2017

The Role of Different Tie Strength in Disseminating Different Topics on a Microblog

Felicia Natali, Kathleen M Carley, Feida Zhu, **Binxuan Huang**, ASONAM 2017

•Technical Reports

NATO Trident Juncture on Twitter: Public Discussion
William Frankenstein, **Binxuan Huang**, Kathleen M. Carley

•Working Papers

Recurrent U-net: Deep learning to predict daily summertime ozone in the United States
Tai-Long He, Dylan Jones, **Binxuan Huang**, Yuyang Liu, Kazuyuki Miyazaki, Zhe Jiang, E Charlie White, Helen M Worden, John R Worden

A Probabilistic Framework for Location Inference from Social Media
Yujie Qian, Jie Tang, Zhilin Yang, **Binxuan Huang**, Wei Wei and Kathleen Carley (in submission)

Twitter User Identity Classification
Binxuan Huang and Kathleen M. Carley (in submission)

Awards and Honors

SBP-BRIMS 2018 Travel Grant	*2018*
SBP-BRIMS 2017 Travel Grant	*2017*
GuSH Research Grant Awards	*2016*
National Scholarship of China (Top 2%, twice)	*2012 & 2013*
First-Class Scholarship for Outstanding Students (Top 3%, twice)	*2012 & 2013*
First-Class Scholarship for Outstanding Merits (Top 3%, twice)	*2012 & 2013*
Excellent Student Awards (Top 3%)	*2013*
First Prize of the National Talents Training Base (Top 3%)	*2012*
Scholarship for Excellence in Arts and Sports	*2012*

Teaching

Teaching Assistant, Dynamic Network Analysis	*Spring, 2017 & 2018*
Teaching Assistant, CASOS Summer Institute	*June, 2016 & 2017 & 2018*
Teaching Assistant, Introduction to Computing System	*Summer, 2014*

Professional Service

Reviewer for SBP-BRiMS, IEEE Transactions on Network Science and Engineering, Computational and Mathematical Organization Theory *2018*
Reviewer for IEEE Intelligent Systems, NAACL, ICWSM, Neural Networks, SBP-BRiMS, Social Network Analysis and Mining *2019*

Graduate Coursework

Introduction to Machine Learning, Intermediate Statistics, Probabilistic Graphical Models, Dynamic Network Analysis, Computational Modeling, Convex Optimization, Deep Reinforcement Learning & Control, Deep Learning

Technical Skills

Programming: Python(Extensive), C/C++, Java, Matlab
Tools: SQL, Pytorch, Tensorflow, Spark, GraphFrames, Latex