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KAI ZHU

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Education

2015 - present	Ph.D. Candidate in Information Systems *Boston University*
2013 – 2015	Ph.D. Coursework in Economics (Passed comprehensive exams with high honors) *Indiana University*
2009 - 2013	B.A. in Economics *Peking University*
2007 - 2011	B.S. in Computer Science *Beijing Language and Culture University*

Research Interests

Computational Social Science, Digital Experimentation, Complex Networks, Text as Data, Causal Inference

Technique Skills

Methodology:

- Machine Learning, Deep Learning, Natural Language Processing, Econometrics, Causal Inference, Field Experiment, Social Network Analysis

Programing:

- Go-to language: Python
  - frequently used libraries: NumPy, SciPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, Scrapy, StatsModels, Matplotlib, NLTK, Genism
- Other Frequently Used Languages and Tools: R, SQL, C, C++, Stata, Cluster Computing

Working Papers

Kai Zhu, Dylan Walker, and Lev Muchnik, "*Content Growth and Attention Contagion: A Natural Experiment on Wikipedia.*" Revised and Resubmitted at *Information Systems Research*.

Kai Zhu, Dylan Walker, and Lev Muchnik, "*How Media Ownership Impacts Political Bias and Information Diversity: A Large-Scale Study of Broadcast Media*"

Kai Zhu and Dylan Walker, "*Media Coverage of Gun Violence in the United States*"

Kai Zhu and Dylan Walker, "*Text-based Measures of Information Diversity: A Deep Learning Approach*"

Working in Progress

Kai Zhu and Dylan Walker, "*Measuring the Real-World Impact of Fact Checking in Combating Online Misinformation*"

Kai Zhu and Dylan Walker, "*Combating Health-Related Misinformation on Social Media: A Randomized Experiment*"

Kai Zhu and Dylan Walker, "*Experimentation in Networks: Evaluating Design and Inference Strategies Under Misspecified Contagion Dynamics*"

Publications in Computer Science

Liu, Guilong, and Kai Zhu. "The Relationship Among Three Types of rough Approximation Pairs." *Knowledge-Based Systems* 60 (2014): 28-34.

Liu, Guilong, Ling Li, Jitao Yang, Yanbin Feng, and Kai Zhu. "Attribute Reduction Approaches for General Relation Decision Systems." *Pattern Recognition Letters* 65 (2015): 81-87.

Conference Presentations

Kai Zhu, Dylan Walker, and Lev Muchnik 2019, "*How Media Ownership Impacts Political Bias and Information Diversity: A Large-Scale Study of Broadcast Media*", Statistical Challenges in Electronic Commerce Research (SCECR 2019), Hong Kong, China

Kai Zhu, Dylan Walker, and Lev Muchnik 2019, "*Content Growth and Attention Contagion in Information Networks: A Natural Experiment on Wikipedia*", Workshop on Experimental and Behavioral Economics in Information Systems (WEBEIS 2019), Minneapolis, Minnesota

Kai Zhu, Dylan Walker, and Lev Muchnik 2018, "*Content Growth and Attention Contagion in Information Networks: A Natural Experiment on Wikipedia*", Harvard Business School, Doctoral Digitization Workshop, Boston, MA

Kai Zhu and Dylan Walker. 2018 "*Political Slant in Local Televised News*", Politics and Computational Social Science (PaCSS 2018), Boston, MA

Kai Zhu, Dylan Walker, and Lev Muchnik 2018, "*Content Growth and Attention Contagion in Information Networks: A Natural Experiment on Wikipedia*", Statistical Challenges in Electronic Commerce Research (SCECR 2018), Rotterdam, NL

Kai Zhu, Dylan Walker, and Lev Muchnik 2017, "*Content Growth and Attention Contagion in Information Networks: A Natural Experiment on Wikipedia*", Workshop on Information Systems Economics (WISE 2017), Seoul, South Korea

Kai Zhu, Dylan Walker, and Lev Muchnik 2017, "*Content Growth in Network: A Natural Experiment on Wikipedia*", The Conference on Digital Experimentation (CODE@MIT 2017), Boston, MA

Kai Zhu, Dylan Walker, and Lev Muchnik 2017, "*Content Growth in Network: A Natural Experiment on Wikipedia*", Wiki Workshop at World Wide Web (WWW 2017), Perth, Australia

Services

Reviewer

- Journal: Management Science
- Conference: Conference of Information Systems and Technology (CIST, 2016, 2017, 2018, 2019), International Conference of Information System (ICIS, 2018, 2019), Workshop of Social Influence (SI, 2018)

Teaching Experience

Instructor

- Introduction to Information Systems, 2019 Summer
    - Instructor rating: 4.5 out of 5

Teaching Assistant

- Platform Strategy, 2019 Spring
- Human Centered Design, 2017 Summer, 2018 Summer, 2019 Summer
- Managing Networked Systems, 2016 Summer, 2018 Summer
- Computer Architecture and Systems Software, 2016 Summer