

HUIMIN XU

Website: <https://xuhuimin2017.github.io/>

Email: huiminxu1024@163.com

EDUCATION

M.A. in School of Journalism and Communication, Nanjing University, China Sep. 2018-present
B.A. in School of Information Management, Nanjing University, China Sep. 2014-June 2018
Visiting student, Faculty of Education, University of British Columbia, Canada June 2017-Sep. 2017

PUBLICATIONS

- **Xu, H.**, Zhang, Z., Wu, L., & Wang, C. J. . (2019). The Cinderella Complex: word embeddings reveal gender stereotypes in movies and books. *PLoS ONE*, 14(11), e0225385.
- **Xu, H.**, Chen, Z., Li, R., & Wang, C. J. . (2020). The geometry of information cocoon: Analyzing the cultural space with word embedding models. arXiv:2007.10083, submitted.

RESEARCH EXPERIENCE

Ongoing project: Organizational weirdness and innovation

Advisor: Lingfei Wu, Amir Goldberg, Sameer Srivastava Aug. 2020-present

- Identify and visualize the communities of professions with millions of companies in U.S. from 2010 to 2019
- Comparison of professions in skill composition across companies
- Explore the relationship of innovation and weird skill combinations in core profession and mental labor

Ongoing project: The geometry of information cocoon

Advisor: Cheng-jun Wang, Winson Pan Jan. 2020-present

- Examine the existence of information cocoon in the daily use of digital media across mobile apps, mobile reading and computer use
- Investigate the relation between information cocoon and social class from public time and private time
- Compare interindividual differences on the distance to different contents (knowledge, entertainment)

Research project: The Cinderella Complex - Men are women's ways to happiness

Advisor: Lingfei Wu, Cheng-jun Wang July 2018-Nov. 2019

- Collect 7,226 books, 6,087 movie synopsis, and 1,109 movie scripts online
- Explore the asymmetric emotional dependency of females on males through the shape the stories
- Employ network analysis to unpack the life of female and male
- Examine how gender stereotypes influence people's choice

Research intern: Natural language processing in Caiyun Technology Company

Advisor: Da Xiao Summer 2018, Winter 2019, Summer 2019

- Train GPT and Bert models to generate story

- Analyze character network and plot narratives to improve story generation models

Research intern: Faculty of Education in University of British Columbia

Supervisor : Robinder Bedi

June 2017-Sep. 2017

- Explore the practices and characteristics of counselling psychology and counselling psychologists in Canada
- Statistics analysis using SPSS and result summary

CONFERENCES

- The geometry of information cocoon
6th Annual International Conference on Computational Social Science (IC2S2), Cambridge, MA USA (Online)
- The Cinderella Complex: word embeddings reveal gender stereotypes in movies and books
5th Annual International Conference on Computational Social Science (IC2S2), Amsterdam, Netherlands
- Social class shapes our trajectories both online and offline (1,000\$ travel scholarship)
4th Annual International Conference on Computational Social Science (IC2S2), Evanston, IL USA

Grants & Fellowships

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| • Tencent S-Tech Academic Support for Communication Program | 2018-2019 (20,000¥) |
| • Mitacs Globalink Research Internship Sponsered by China Scholarship Council | 2017.06-2017.09 |
| • National Undergraduate Training Program for Innovation and Entrepreneurship | 2015-2016 (8,000¥) |
| • Liao's Scholarship for Distinguished Undergraduate Students | 2016 (5,000¥) |

Teaching Assistant

- Data Mining and analysis, 2018-2019
- Social media and communication networks, 2019-2020

SKILLS & INTERESTS

- Proficient in data crawling and processing (4-year programming experience with python, familiar with request, pandas, numpy, pytorch, matplotlib, sklearn, stats, networkx, genism software packages)
- Adept at Satat, SPSS and Gephi
- Advanced statistics knowledge
- Research interest: Computational social science, Social inequality, Organizational culture and innovation