## HUIMIN XU

## Website: https://xuhuimin2017.github.io/

## Education

PH.D. in Information Studies, University of Texas at Austin, US
M.A. in School of Journalism and Communication, Nanjing University, China
B.A. in School of Information Management, Nanjing University, China

Aug. 2021-present Sep. 2018-June 2021 Sep. 2014-June 2018

## **Research Interests**

Computational social science, Science of team science

## Journal Articles

- Xu, H., Liu, M., Bu, Y., Sun, S., Zhang, Y., Zhang, C., ... & Ding, Y. (2023). The Impact of Heterogeneous Shared Leadership in Scientific Teams. arXiv preprint arXiv:2306.15804. (revised)
- Xu, H., Bu, Y., Liu, M., Zhang, C., Sun, M., Zhang, Y., ... & Ding, Y. (2022). Team power dynamics and team impact: New perspectives on scientific collaboration using career age as a proxy for team power. Journal of the Association for Information Science and Technology, 73(10), 1489-1505.
- 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)
- 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.

## Conferences

- Xu, H., Song, M., Saar-Tsechansky M., & Ding, Y. (2023). Using Explainable AI to Understand Team Formation and Team Impact. 86th Annual Meeting of the Association for Information Science and Technology
- Xu, H. (2023). The Impact of Heterogeneous Shared Leadership in Scientific Teams, International Society for Scientometrics and Informetrics (ISSI) Team Science and Innovation workshop, July 2-5, Bloomington, USA
- Xu,H., ... & Ding, Y. (2023). Cross-Team Collaboration and Diversity in the Bridge2AI Project. In Companion Proceedings of the ACM Web Conference 2023 (pp. 790-794).
- Xu, H., ... & Ding, Y. (2023). Disparity in the Evolving COVID-19 Collaboration Network. iConference 2023.
- Xu, H., & Erk, K. (2023). Detecting public discourse about COVID-19. iConference 2023 (poster).
- Xu, H., Chen, Z., Li, R., & Wang, C. J. (2020). The geometry of information cocoon. The 6th Annual International Conference on Computational Social Science (poster), July 17–20, 2020, Cambridge, Massachusetts, USA. (Online due to COVID-19)
- Xu, H., Zhang, Z., Wu, L., & Wang, C. J. (2019). The Cinderella Complex. The 5th Annual International Conference on Computational Social Science (poster), July 17–20, 2019, Amsterdam, Netherlands.
- Xu, H., Chen, Z., & Wang, C. J. (2018). Social classes shape our trajectories in both online and offline space. The 4th Annual International Conference on Computational Social Science (oral report), July 12–15, 2018, Evanston, Illinois, USA. (1,000\$ travel scholarship)

## **Research Experience**

- Explore how to provide an equal environment that transcends the inherent individual identity and group privilege
- Understand the collaboration within females in gender mixed teams

### Research project: Talent Knowledge Graph for Bridge2AI project

Advisor: Ding, Ying

- Build breast cancer health talents datasets
- Help design portals for database visualization
- Help run collaborator algorithms recommendation for AI health researchers

#### **Research project: Public discourse about COVID19**

Advisor: Erk, Katrin

- Detect the mutual relationship between opinions (entailment, contradiction, neutral)
- Fine-tune RoBERTa models based on 10,320 relationships between 637 COVID-19 related claims
- Compare the difference between model prediction and human annotation

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

Advisors: Lingfei Wu, Cheng-jun Wang

- Crawl 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 of stories
- Apply network analysis to unpack the life of female and male
- Examine how gender stereotypes influence people's choice

#### Research intern: Natural language processing at ColorfulClouds Tech.

Supervisor: Da Xiao

- Train GPT and Bert models to generate story
- Understand the difference between AI and human in evaluating and narrating movie stories
- Analyze character network and plot narratives to improve story generation models

#### Grants & Fellowships

•	IMLS-funded LADDER Fellowship	2023.09-2024.05 (\$30,000)
•	Chinese National Scholarship for Graduate Students	2020 (\$3,000)
•	Tencent S-Tech Academic Support for Communication Program	2018-2019 (\$3,000)
•	Mitacs Globalink Research Internship Sponsered by China Scholarship Council	2017.07-2017.09 (\$4,000)

#### Teaching experience

- AI literacy, Navarro High School, 2023 (Lecturer)
- Data mining and analysis, Nanjing University, 2018-2019 (Teaching Assistant)
- Social media and communication networks, Nanjing University, 2019-2020 (Teaching Assistant)

## Service

- Peer Reviewers: Information Processing & Management | Scientometrics | Quality & Quantity | iconference | asis&t
- Committee: UT ischool Colloquium Committee | UT Student Ambassadors GPT Asia

Sep. 2022 - May. 2023

July 2018-Nov. 2019

June. 2022 – August. 2022

Summer 2018, Winter 2019, Summer 2019

# Skills

- Programming languages: Python, R
- Deep Learning Platform: PyTorch