

# Hao Peng

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RESEARCH INTERESTS	Computational Social Science, Data Science, Science of Innovation, Social Networks, Network Science, Management Science, Complex Systems, Online Media, Diversity, Leadership, Communication, Ethnicity, Gender, NLP, AI	
EMPLOYMENT	Assistant Professor <b>City University of Hong Kong</b> <ul style="list-style-type: none"><li>School of Data Science</li></ul>	July 2024 - Present Hong Kong, China
	Postdoctoral Fellow <b>Northwestern University</b> <ul style="list-style-type: none"><li>Advisor: Brian Uzzi</li><li>Kellogg School of Management</li><li>Northwestern Institute on Complex Systems (NICO)</li></ul>	May 2022 - June 2024 Evanston, IL, USA
	Research Intern <b>University of Southern California</b> <ul style="list-style-type: none"><li>Host: Emilio Ferrara</li><li>Information Sciences Institute (ISI)</li></ul>	May 2017/19 - July 2017/19 Los Angeles, USA
	Research Intern <b>University of Pennsylvania</b> <ul style="list-style-type: none"><li>Host: Lyle Ungar, M. A. Mageed</li><li>The Positive Psychology Center</li><li>World Well-Being Project (WWBP)</li></ul>	May 2016 - Aug. 2016 Philadelphia, USA
EDUCATION	Ph.D. in Information Science <b>University of Michigan</b> , School of Information <ul style="list-style-type: none"><li>Advisor: Daniel Romero</li><li>Thesis: Gender and Ethnic Disparities in Science Production and Dissemination</li></ul>	Sep. 2017 - May 2022 Ann Arbor, MI, USA
	M.S. in Data Science <b>Indiana University</b> , School of Informatics <ul style="list-style-type: none"><li>Advisor: Yong-Yeol Ahn, Filippo Menczer</li></ul>	Sep. 2015 - May 2017 Bloomington, IN, USA
	B.S. in Information Management <b>Sun Yat-Sen University</b> , School of Information Management	Sep. 2011 - June 2015 Guangzhou, China

## PUBLICATIONS

\* denotes equal contribution.

### Under Review / Pre-prints

1. The Gender Gap in Scholarly Self-Promotion on Social Media  
**H. Peng**, M. Teplitskiy, D.M. Romero, E.Á. Horvát  
(In Review)
2. Acceptance in Top Biology Journals Shows Large Ethnic Disparities  
**H. Peng**, K.R. Lakhani, M. Teplitskiy  
*SocArXiv* (2021) [[Link](#)]

### Journal Papers

3. Promotional Language and the Adoption of Innovative Ideas in Science  
**H. Peng\***, H.S. Qiu\*, H.B. Fosse, B. Uzzi  
*Proceedings of the National Academy of Sciences* 121, e2320066121 (2024)
4. Author Mentions in Science News Reveal Widespread Disparities Across Name-inferred Ethnicities  
**H. Peng**, M. Teplitskiy, D. Jurgens  
*Quantitative Science Studies* 1-23 (2024)
5. Is Novel Research Worth Doing? Evidence From Peer Review at 49 Journals  
M. Teplitskiy, **H. Peng**, A. Blasco, K.R. Lakhani  
*Proceedings of the National Academy of Sciences* 119, e2118046119 (2022)
6. Dynamics of Cross-Platform Attention to Retracted Papers  
**H. Peng**, D.M. Romero, E.Á. Horvát  
*Proceedings of the National Academy of Sciences* 119, e2119086119 (2022)
7. Neural Embeddings of Scholarly Periodicals Reveal Complex Disciplinary Organizations  
**H. Peng**, Q. Ke, C. Budak, D.M. Romero, Y.Y. Ahn  
*Science Advances* 7, eabb9004 (2021)
8. Network Modularity Controls the Speed of Information Diffusion  
**H. Peng**, A. Nematzadeh, D.M. Romero, E. Ferrara  
*Physical Review E* 112, 052316 (2020)
9. Social Influence and Unfollowing Accelerate the Emergence of Echo Chambers  
K. Sasahara, W. Chen, **H. Peng**, G.L. Ciampaglia, A. Flammini, F. Menczer  
*Journal of Computational Social Science* (2020)

### Conference Papers

10. Event-Driven Analysis of Crowd Dynamics in the *BLM* Online Social Movement  
**H. Peng**, C. Budak, D.M. Romero  
*The ACM International World Wide Web Conference* (2019)

11. Recognizing Pathogenic Empathy in Social Media  
M. Abdul-Mageed, A. Buffone, **H. Peng**, S. Giorgi, J. Eichstaedt, L. Ungar  
*The International AAAI Conference on Web and Social Media* (2017)
12. Performance Dynamics and Success in Online Games  
A. Sapienza, **H. Peng**, E. Ferrara  
*IEEE International Conference on Data Mining Workshop* (2017)

## AWARDS AND FELLOWSHIPS

### Awards

- Best Paper Honorable Mention, *NetSci*, 2024
- Best Paper Award (\$1,000), *ASIS&T*, 2021
- Second Prize (\$750), John Hunter Excellence in Plotting Contest, *SciPy*, 2019
- Microsoft Azure Research Award, 2016

### Fellowships

- Travel Award, National Bureau of Economic Research, 2024
- OPA Conference Travel Grant, Northwestern University, 2024
- UMich Rackham Travel Award, 2019
- UMSI PhD Travel Grant, 2018, 2019
- Travel Scholarship, *IC2S2*, 2018
- Indiana University Data Science Program Fellowship, 2015
- Academic Excellence Scholarship of Sun Yat-Sen University, 2011

### Other Awards

- First Prize in the Provincial Physics Competition, Hubei, China, 2010
- Third Prize in the National Physics Olympiad Contest, China, 2010

## TEACHING

### Northwestern University, School of Communication

- MSLCE - Culture & Art Analytics (lecturer for Ágnes Horvát) Spring 2023

### University of Michigan, School of Information

- SI 106 - Programs, Information and People (TA for Paul Resnick) Winter 2019
- SI 330 - Data Manipulation (TA for Matthew Kay) Fall 2018

## SELECTED TALKS

### Invited Talks

1. *School of Data Science* (Zoom), City University of Hong Kong Mar 2024  
- Necessity and Strategy for Facilitating Idea Adoption in Science
2. *Wednesdays@NICO*, Northwestern University Jan 2024  
- Necessity and Strategy for Facilitating Idea Adoption in Science
3. *Graduate School of Management* (Zoom), UC Davis Jan 2024  
- Necessity and Strategy for Facilitating Idea Adoption in Science
4. *HKU Business School* (Zoom), The University of Hong Kong Dec 2023  
- Necessity and Strategy for Facilitating Idea Adoption in Science
5. *Harvard Business School* (Zoom), Harvard University Oct 2023  
- Does Promotional Language Communicate the Merits of Innovative Science?

6. *Mendoza College of Business* (Zoom), University of Notre Dame      Oct 2023  
- Does Promotional Language Communicate the Merits of Innovative Science?

### Conference Presentations

1. *IC2S2*, UChicago      July 2022  
- Gender Differences in Scholarly Self-Promotion on Twitter
2. *ICSSI*, National Academy of Sciences, Washington, DC      June 2022  
- Dynamics of Cross-Platform Attention to Retracted Papers  
- The Gender Gap in Scholarly Self-Promotion on Twitter
3. *IC2S2*, ETH Zurich, Switzerland      July 2021  
- Analyzing Online Attention to Retracted Papers
4. *IC2S2*, MIT      July 2020  
- Network Modularity Controls the Speed of Information Diffusion  
- Neural Embeddings of Periodicals Reveal Complex Disciplinary Organizations  
- Say My Name: Author Mentions in Science News Reveal Ethnic Bias
5. *WWW*, San Francisco      May 2019  
- Event-Driven Analysis of Crowd Dynamics in BLM Online Social Movement
6. *IC2S2*, Northwestern University      July 2018  
- Event-Driven Modeling of Crowd Dynamics in Online Social Movements
7. *NetSci*, Indianapolis      June 2017  
- A Quantitative Model for Revealing Disciplinary Organizations in Science

### Seminar Talks

- Job Market Brain Dump, Kellogg, Northwestern University      May 2024
- DS/CSS Seminar, University of Michigan      Oct. 2019
- IAR Seminar, University of Michigan      April 2019

### MEDIA COVERAGE      Selected News Stories

1. June 2024, Kellogg Insight  
- Unique. Revolutionary. Fundamental. A Little Hype Can Help Scientists Win Grants
2. April 2024, NPR  
- Which scientists get mentioned in the news? Mostly ones with Anglo names, says study
3. April 2024, LSE Impact Blog  
- Researchers with minority ethnic names are written out of US science journalism
4. April 2024, Fast Company  
- Researchers with African and East Asian names are less likely to be mentioned in U.S. media
5. April 2024, The Conversation, Yahoo! News, Phys.org  
- US media coverage of new science less likely to mention researchers with African and East Asian names

6. Mar 2024, Science Magazine  
- Scientists with East Asian and African names get short shrift in news coverage
7. Dec 2022, Michigan News  
- Journal editors, reviewers don't show bias against novelty
8. July 2022, The Washington Post  
- Retractions aren't a panacea for bad research
9. July 2022, Le Monde (French)  
- En science aussi les fausses informations circulent mieux que les bonnes  
- (In science too, false information circulates better than good information)
10. July 2022, Deutschlandfunk (German Radio)  
- Warum fehlerhafte Studien oft die meiste Aufmerksamkeit bekommen  
- (Why flawed studies often get the most attention)
11. June 2022, Northwestern Now  
- Flawed research not retracted fast enough to prevent spread of misinformation
12. June 2022, Retraction Watch, Inside Higher Ed  
- Retractions: A Missed Opportunity?
13. June 2022, Academica Group  
- Article retractions take too long to influence public discourse
14. June 2022, Michigan News, Phys.org  
- Flawed research not retracted fast enough to prevent spread of misinformation, study finds
15. Oct 2021, Entrepreneur, Scientific American, Yahoo! News  
- Facebook Whistleblower Testified That Company's Algorithms Are Dangerous
16. Oct 2021, Big Think  
- Here's exactly how social media algorithms can manipulate you
17. Sep 2021, MSN, Salon  
- How "engagement" makes you vulnerable to manipulation and misinformation on social media
18. Sep 2021, The Conversation, Newsbreak, Phys.org  
- Facebook's algorithms fueled massive foreign propaganda campaigns during the 2020 election
19. Dec 2020, Scientific American  
- Information Overload Helps Fake News Spread, and Social Media Knows It
20. Sep 2020, New Scientist  
- US science news biased against people with names of non-British origin

## SERVICE

### Journal Reviewer

- *Science Advances, Nature Human Behaviour, PLOS One*
- *Science Communication, Scientometrics, Sage Open*
- *Transactions on the Web*

### Program Committee Member, Reviewer

- *The ACM Web Conference*: 2019, 2020
- *The ACM International Conference on Web Search and Data Mining*: 2019, 2020
- *The ACM Conference on Human Factors in Computing Systems*: 2022, 2024
- *The ACM Conference on Computer-Supported Cooperative Work*: 2020, 2023
- *The International AAAI Conference on Web and Social Media*: 2020-2024
- *International Conference on Computational Social Science*: 2022-2024
- *Academy of Management Conference*: 2024
- *Conference on Complex Systems*: 2024

#### **Professional Memberships**

- *Academy of Management (AOM)*
- *The Complex Systems Society (CSS)*
- *The Network Science Society (NetSci)*
- *International Communication Association (ICA)*
- *Association for Computational Linguistics (ACL)*
- *Association for Information Science & Technology (ASIS&T)*