

Hao Peng

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| CONTACT | Chambers Hall 600 Foster Street Evanston, IL 60208 | Website: https://haoopeng.github.io/ Email: hao.peng@kellogg.northwestern.edu Twitter: @haoopeng |
| RESEARCH INTERESTS | Innovation, Leadership, Communication, Gender, Ethnicity, Disparity, Social Networks | |
| EMPLOYMENT | Postdoctoral Fellow Northwestern University <ul style="list-style-type: none">Host: Brian Uzzi @NICO | May 2022 - Present Evanston, IL, USA |
| | Graduate Student Research Assistant University of Michigan | Sep. 2017 - May 2022 Ann Arbor, MI, USA |
| | Summer Research Intern University of Southern California <ul style="list-style-type: none">Host: Emilio Ferrara @ISI | May 2017/19 - July 2017/19 Los Angeles, USA |
| | Summer Research Intern University of Pennsylvania <ul style="list-style-type: none">Host: Lyle Ungar, M. Abdul-Mageed @WWBP | May 2016 - Aug. 2016 Philadelphia, USA |
| EDUCATION | Ph.D. in Information Science University of Michigan , School of Information <ul style="list-style-type: none">Advisor: Daniel M. Romero | Sep. 2017 - May 2022 Ann Arbor, MI, USA |
| | M.S. in Data Science Indiana University , School of Informatics <ul style="list-style-type: none">Advisors: Yong-Yeol Ahn, Filippo Menczer | Sep. 2015 - May 2017 Bloomington, IN, USA |
| | B.S. in Information Management Sun Yat-Sen University | Sep. 2011 - June 2015 Guangzhou, China |
| | Summer Visiting Scholar National Chengchi University , Business School | Jun 2012 - Aug 2012 Taipei City |
| PUBLICATIONS | Journal Papers <ol style="list-style-type: none">Is Novel Research Worth Doing? Evidence From Peer Review at 49 Journals M. Teplitskiy, H. Peng, A. Blasco, K.R. Lakhani <i>PNAS</i> 119, e2118046119 (2022)Dynamics of Cross-Platform Attention to Retracted Papers H. Peng, D.M. Romero, E.Á. Horvát <i>PNAS</i> 119, e2119086119 (2022)Neural Embeddings of Scholarly Periodicals Reveal Complex Disciplinary Organizations H. Peng, Q. Ke, C. Budak, D.M. Romero, Y.Y. Ahn <i>Science Advances</i> 7, eabb9004 (2021) | |

4. Network Modularity Controls the Speed of Information Diffusion
H. Peng, A. Nematzadeh, D.M. Romero, E. Ferrara
Physical Review E 112, 052316 (2020)
5. 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)
6. Sentiment Analysis of Web Reviews Based on Comparative Sentence Extraction
H. Peng, J. Xu, Z. Xiao
Data Analysis and Knowledge Discovery (2016)

Conference Papers

7. Event-Driven Analysis of Crowd Dynamics in the *BLM* Online Social Movement
H. Peng, C. Budak, D.M. Romero
WWW (2019)
8. Recognizing Pathogenic Empathy in Social Media
M. Abdul-Mageed, A. Buffone, **H. Peng**, S. Giorgi, J. Eichstaedt, L. Ungar
ICWSM (2017)
9. Performance Dynamics and Success in Online Games
A. Sapienza, **H. Peng**, E. Ferrara
ICDM Workshop (2017)

Preprints

10. The Gender Gap in Scholarly Self-Promotion on Social Media
H. Peng, M. Teplitskiy, D.M. Romero, E.Á. Horvát
(In Review)
11. Acceptance in Two Major Life Sciences Journals Shows Large Disparities Across Name-inferred Ethnicities
H. Peng, K.R. Lakhani, M. Teplitskiy
(In Review)
12. Author Mentions in Science News Reveal Widespread Disparities Across Name-inferred Ethnicities
H. Peng, M. Teplitskiy, D. Jurgens
(In Review)

AWARDS AND FELLOWSHIPS

Awards

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

Fellowships

- UMich Rackham Travel Grant, 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 Regional Physics Competition, Hubei, China, 2010
- Third Prize in the National Physics Olympiad Contest, China, 2010

TEACHING

Northwestern University

- CAA - Culture & Art Analytics (guest lecture for Ágnes Horvát)

Spring 2023

University of Michigan

- SI 106 - Programs, Information and People (with Paul Resnick)
- SI 330 - Data Manipulation (with Matthew Kay)

Winter 2019

Fall 2018

MEDIA COVERAGE

Selected News Reports

1. Dec 2022, *Michigan News*
- Journal editors, reviewers don't show bias against novelty
2. July 2022, *Washington Post*
- Retractions aren't a panacea for bad research
3. June 2022, *Northwestern Now*
- Flawed research not retracted fast enough to prevent spread of misinformation
4. June 2022, *Inside Higher Ed*, *Retraction Watch*
- Retractions: A Missed Opportunity?
5. June 2022, *Academica Group*
- Article retractions take too long to influence public discourse
6. June 2022, *Michigan News*, *Phys.org*, *Mirage News*
- Flawed research not retracted fast enough to prevent spread of misinformation, study finds
7. Oct. 2021, *Yahoo! News*, *Scientific American*, *The Conversation*, *Entrepreneur*
- Facebook Whistleblower Testified That Company's Algorithms Are Dangerous
8. Oct. 2021, *Big Think*
- Here's exactly how social media algorithms can manipulate you
9. Sep. 2021, *MSN*, *Salon*, *Tech Xplore*
- How "engagement" makes you vulnerable to manipulation and misinformation on social media
10. Sep. 2021, *The Conversation*, *Yahoo!*, *Phys.org*, *Newsbreak*, *Arizona Daily Star*
- Facebook's algorithms fueled massive foreign propaganda campaigns during the 2020 election
11. Dec 2020, *Scientific American*
- Information Overload Helps Fake News Spread, and Social Media Knows It
12. Sep. 2020, *New Scientist*
- US science news biased against people with names of non-British origin

SELECTED TALKS

Conference Presentations

1. IC2S2, UChicago
- Gender Differences in Scholarly Self-Promotion on Twitter
July 2022
2. ICSSI, National Academy of Sciences, Washington, DC
- Dynamics of Cross-Platform Attention to Retracted Papers
June 2022
3. ICSSI, National Academy of Sciences, Washington, DC
- The Gender Gap in Scholarly Self-Promotion on Twitter
June 2022
4. IC2S2, ETH Zurich, Switzerland
- Analyzing Online Attention to Retracted Papers
July 2021
5. IC2S2, MIT
- Network Modularity Controls the Speed of Information Diffusion
July 2020

6. *IC2S2*, MIT July 2020
- Neural Embeddings of Scholarly Periodicals Reveal Complex Disciplinary Organizations
7. *IC2S2*, MIT July 2020
- Say My Name, Say My Name: Author Mentions in Science Reporting Reveal Widespread Ethnic Bias
8. *WWW*, San Francisco May 2019
- Event-Driven Analysis of Crowd Dynamics in the Black Lives Matter Online Social Movement
9. *IC2S2*, Northwestern University July 2018
- Event-Driven Modeling of Crowd Dynamics in online social movements
10. *NetSci*, Indianapolis June 2017
- A quantitative framework for revealing disciplinary organizations of science

SERVICE

Conference Reviewer, PC Member

- *WWW*, *WSDM*, *ICWSM*
- *CHI*, *CSCW*
- *IC2S2*

Journal Reviewer

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

REFERENCES

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| <ul style="list-style-type: none"> • Brian Uzzi uzzi@kellogg.northwestern.edu Northwestern University • Daniel M. Romero drom@umich.edu University of Michigan • Misha Teplitskiy tepl@umich.edu University of Michigan | <ul style="list-style-type: none"> • Emőke-Ágnes Horvát a-horvat@northwestern.edu Northwestern University • Emilio Ferrara emiliofe@usc.edu University of Southern California • Yong-Yeol Ahn yyahn@iu.edu Indiana University Bloomington |
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