

# 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](mailto:hao.peng@kellogg.northwestern.edu)  
Twitter: @haoopeng

## RESEARCH INTERESTS

Innovation, Leadership, Communication, Gender, Ethnicity, Disparity, Social Networks

## EMPLOYMENT

Postdoctoral Fellow

**Northwestern University**

- Host: Brian Uzzi @NICO

*May 2022 - Present  
Evanston, IL, USA*

Graduate Student Research Assistant

**University of Michigan**

*Sep. 2017 - Present  
Ann Arbor, MI, USA*

Summer Research Intern

**University of Southern California**

- Host: Emilio Ferrara @ISI

*May 2017/19 - July 2017/19  
Los Angeles, USA*

Summer Research Intern

**University of Pennsylvania**

- 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

- Advisor: Daniel M. Romero

*Sep. 2017 - May 2022  
Ann Arbor, MI, USA*

M.S. in Data Science

**Indiana University**, School of Informatics

- 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

### Preprints

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 Two Major Life Sciences Journals Shows Large Disparities Across Name-inferred Ethnicities  
**H. Peng**, K.R. Lakhani, M. Teplitskiy  
(In Review)
3. Author Mentions in Science News Reveal Widespread Disparities Across Name-inferred Ethnicities

**H. Peng**, M. Teplitskiy, D. Jurgens  
(In Review)

### Journal Papers

1. Is Novel Research Worth Doing? Evidence From Peer Review at 49 Journals  
M. Teplitskiy, **H. Peng**, A. Blasco, K.R. Lakhani  
*PNAS* 119, e2118046119 (2022)
2. Dynamics of Cross-Platform Attention to Retracted Papers  
**H. Peng**, D.M. Romero, E.Á. Horvát  
*PNAS* 119, e2119086119 (2022)
3. Neural Embeddings of Scholarly Periodicals Reveal Complex Disc. Organizations  
**H. Peng**, Q. Ke, C. Budak, D.M. Romero, Y.Y. Ahn  
*Science Advances* 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

1. Event-Driven Analysis of Crowd Dynamics in the *BLM* Online Social Movement  
**H. Peng**, C. Budak, D.M. Romero  
*WWW* (2019)
2. Recognizing Pathogenic Empathy in Social Media  
M. Abdul-Mageed, A. Buffone, **H. Peng**, S. Giorgi, J. Eichstaedt, L. Ungar  
*ICWSM* (2017)

### Workshop Papers

1. Performance Dynamics and Success in Online Games  
A. Sapienza, **H. Peng**, E. Ferrara  
*ICDM Workshop* (2017)

### AWARDS AND FELLOWSHIPS

#### Awards

- Best Paper Award (\$1,000), *ASIS&T*, SIG-MET Workshop, 2021
- 2nd Prize (\$750), John Hunter Excellence in Plotting Contest, *SciPy*, 2019
- UMich Rackham Travel Grant, 2019
- UMSI PhD Travel Grant, 2018, 2019
- Travel Scholarship, *IC2S2*, 2018
- Microsoft Azure Research Award, 2016

#### Fellowships

- 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

Graduate Student Instructor

### University of Michigan

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

## MEDIA COVERAGE

### Research Coverage

- *Washington Post*
  1. July 2022, Retractions aren't a panacea for bad research
- *New Scientist*
  1. Sep. 2020, US science news biased against people with names of non-British origin
- *Northwestern Now*
  1. June 2022, Flawed research not retracted fast enough to prevent spread of misinformation
- *Inside Higher Ed*
  1. June 2022, Retractions: A Missed Opportunity?

## SELECTED TALKS

### Conference Presentations

- *IC2S2*, UChicago July 2022
- *ICSSI*, National Academy of Sciences, Washington, DC June 2022
- *IC2S2*, ETH Zurich, Switzerland July 2021
- *IC2S2*, MIT July 2020
- *WWW*, San Francisco May 2019
- *IC2S2*, Northwestern University July 2018
- *NetSci*, Indianapolis June 2017

## SERVICE

### Conference Reviewer, PC Member

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

### Journal Reviewer

- Computer Science: *Transactions on the Web*
- Multidiscipline: *Nature Human Behaviour*, *PLOS ONE*

## REFERENCES

- 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
- 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