

Hao Peng

CONTACT

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RESEARCH INTERESTS

My research is in computational social science and science of science — an interdisciplinary field that utilizes data-driven and computational approaches to examine the knowledge of science itself. I'm particularly interested in studying how social factors influence the production and dissemination of science and innovation. My research goal is to improve the quality and equality of science, and amplify its societal impact.

EDUCATION

Ph.D. in Information
University of Michigan, School of Information
• Advisor: [Daniel M. Romero](#)

Sep. 2017 - Present
Ann Arbor, MI, USA

M.S. in Data Science
Indiana University
• Advisors: [Yong-Yeol Ahn](#), [Filippo Menczer](#)

Sep. 2015 - May 2017
Bloomington, IN, USA

B.S. in Information Management & System
Sun Yat-Sen University

Sep. 2011 - June 2015
Guangzhou, China

RESEARCH POSITIONS

Graduate Student Research Assistant
University of Michigan

Sep. 2017 - Present
Ann Arbor, MI, USA

Summer Research Intern
University of Southern California
• Supervisor: [Emilio Ferrara](#)

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

Summer Research Intern
University of Pennsylvania
• Host: World Well-Being Project
• Supervisor: [Muhammad Abdul-Mageed](#), [Lyle Ungar](#)

May 2016 - Aug. 2016
Philadelphia, USA

JOURNAL PAPERS

1. Analyzing Online Attention to Retracted Papers
H. Peng, D.M. Romero, E.Á. Horvát
(In Review)
2. Is Novel Research Worth Doing? Evidence from Journal Peer Review
M. Teplitskiy, **H. Peng**, A. Blasco, K.R. Lakhani
(In Review)
3. Ethnic Disparities in Publishing in Top Biology Journals
H. Peng, K.R. Lakhani, M. Teplitskiy
(In Review)
4. Author Mentions in Science News Reveal Wide-Spread Ethnic Disparities
H. Peng, M. Teplitskiy, D. Jurgens
(In Review)

5. 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)
6. Network Modularity Controls the Speed of Information Diffusion
H. Peng, A. Nematzadeh, D.M. Romero, E. Ferrara
Physical Review E 112, 052316 (2020)
7. 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)
8. Sentiment Analysis of Web Reviews Based on Comparative Sentence Extraction
H. Peng, J. Xu, Z. Xiao
Data Analysis and Knowledge Discovery (2016)

SHORT PAPERS

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

AWARDS AND FELLOWSHIPS

Awards

- Best Paper (\$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
- Silver Medal in the National Physics Olympiad Contest, China, 2010

TEACHING

Graduate Student Instructor

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

Research Coverage

- New Scientist [[Link](#)]

Sep 2020

SELECTED TALKS

Conference Presentations

- *IC2S2*, ETH Zurich, Switzerland July 2021
- *IC2S2*, MIT, Boston July 2020
- *WWW*, San Francisco May 2019
- *IC2S2*, Northwestern University, Chicago July 2018
- *NetSci*, Indianapolis June 2017

Colloquia and Seminars

- CSS Seminar, UMSI Oct. 2019
- IAR Seminar, UMSI April 2019
- IAR Seminar, UMSI Nov. 2017

SERVICE

Conference Volunteer

- Session chair, *IC2S2*, 2020

Conference Reviewer

- *WWW*: 2017, 2019, 2020
- *WSDM*: 2018, 2020
- *IC2S2*: 2020
- *CSCW*: 2020
- *ICWSM*: 2021
- *CHI*: 2022

Journal Reviewer

- Computer Science: *Transactions on the Web*
- Multidiscipline: *PLOS ONE*

REFERENCES

- Daniel M. Romero
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University of Michigan
- Misha Teplitskiy
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University of Michigan
- David Jurgens
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- Emilio Ferrara
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University of Southern California
- Yong-Yeol Ahn
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Indiana University Bloomington
- Filippo Menczer
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