

Hao Peng

CONTACT

3332 North Quad
105 S. State St.
Ann Arbor, MI 48109

Website: <http://haoopeng.github.io/>
Email: haopeng@umich.edu
Mobile: (812) 349-8040

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 process of scholarly publishing and the dissemination of scientific knowledge, with a goal to improve the equity, inclusion, and quality of science, and amplify its societal impact.

EDUCATION

Ph.D. in Information *Sep. 2017 - Present*
University of Michigan, School of Information *Ann Arbor, MI, USA*
• Advisor: [Daniel M. Romero](#)

M.S. in Data Science *Sep. 2015 - May 2017*
Indiana University *Bloomington, IN, USA*
• Advisors: [Yong-Yeol Ahn](#), [Filippo Menczer](#)

B.S. in Information Management & System *Sep. 2011 - June 2015*
Sun Yat-Sen University *Guangzhou, China*

RESEARCH POSITIONS

Graduate Student Research Assistant *Sep. 2017 - Present*
University of Michigan *Ann Arbor, MI, USA*

Summer Research Intern *May 2017/19 - July 2017/19*
University of Southern California *Los Angeles, USA*
• Supervisor: [Emilio Ferrara](#)

Summer Research Intern *May 2016 - Aug. 2016*
University of Pennsylvania *Philadelphia, USA*
• Host: World Well-Being Project
• Supervisor: [Muhammad Abdul-Mageed](#), [Lyle Ungar](#)

JOURNAL PAPERS

1. Ethnic Disparities in Publishing in Top Biology Journals
H. Peng, K. Lakhani, M. Teplitskiy
(In Review)
2. Author Mentions in Science News Reveal Wide-Spread Ethnic Disparities
H. Peng, M. Teplitskiy, D. Jurgens
(In Review)
3. Embeddings of Scholarly Periodicals Reveal Complex Disciplinary Organizations
H. Peng, Q. Ke, C. Budak, D.M. Romero, Y.Y. Ahn
Science Advances, (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. On the Inevitability of Online 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)

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

- 2nd Prize of the John Hunter Excellence in Plotting Contest, *SciPy*, 2019
- UMich Rackham Travel Grant, 2019
- UMSI PhD Travel Grant, 2018, 2019
- Travel Scholarship, *IC2S2*, 2018

Fellowships

- Microsoft Azure Research Award, 2016
- 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](#)) Winter 2019
- SI 330 - Data Manipulation (with [Matthew Kay](#)) Fall 2018

MEDIA COVERAGE

Research Coverage

- New Scientist [[Link](#)] Sep 2020

SELECTED TALKS

Conference Presentations

- *IC2S2*, MIT, USA July 2020
- *WWW*, San Francisco, USA May 2019
- *IC2S2*, Northwestern University, USA July 2018
- *NetSci*, Indianapolis, USA 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
- *ICWSM*: 2021
- *IC2S2*: 2020
- *CSCW*: 2020

Journal Reviewer

- Computer Science: *Transactions on the Web*

REFERENCES

- Daniel M. Romero
drom@umich.edu
University of Michigan
- Misha Teplitskiy
tepl@umich.edu
University of Michigan
- Yong-Yeol Ahn
yyahn@iu.edu
Indiana University Bloomington
- Filippo Menczer
fil@iu.edu
Indiana University Bloomington