Hao Peng

http://haoopeng.github.io/ 3332 North Quad Website: **CONTACT** 105 S. State St. Email: haopeng@umich.edu

Ann Arbor, MI 48109 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 scientific publishing and the dissemination of knowledge. My research goal is 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

Sep. 2015 - May 2017 M.S. in Data Science **Indiana University** Bloomington, IN, USA

· Advisors: Yong-Yeol Ahn, Filippo Menczer

B.S. in Information Management & System Sep. 2011 - June 2015 Guangzhou, China

Sun Yat-Sen University

RESEARCH Graduate Student Research Assistant Sep. 2017 - Present **POSITIONS** 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.R. 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 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. 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)
- Sentiment Analysis of Web Reviews Based on Comparative Sentence Extraction H. Peng, J. Xu, Z. Xiao Data Analysis and Knowledge Discovery (2016)

SHORT PAPERS

- Event-Driven Analysis of Crowd Dynamics in the BLM Online Social Movement H. Peng, C. Budak, D.M. Romero WWW (2019)
- Performance Dynamics and Success in Online Games
 A. Sapienza, H. Peng, E. Ferrara
 ICDM Workshop (2017)
- 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
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SELECTEDTALKS

Conference Presentations

• <i>IC</i> ₂ S ₂ , 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
IC252: 2020
CSCW: 2020

Journal Reviewer

• Computer Science: Transactions on the Web

• Multidiscipline: PLOS ONE

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