

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 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
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. 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)

	<ol style="list-style-type: none"> On the Inevitability of Online Echo Chambers K. Sasahara, W. Chen, H. Peng, G.L. Ciampaglia, A. Flammini, F. Menczer <i>Journal of Computational Social Science</i> (2020) Sentiment Analysis of Web Reviews Based on Comparative Sentence Extraction H. Peng, J. Xu, Z. Xiao <i>Data Analysis and Knowledge Discovery</i> (2016) 	
CONFERENCE PAPERS	<ol style="list-style-type: none"> Event-Driven Analysis of Crowd Dynamics in the <i>BLM</i> Online Social Movement H. Peng, C. Budak, D.M. Romero <i>WWW</i> (2019) Performance Dynamics and Success in Online Games A. Sapienza, H. Peng, E. Ferrara <i>ICDM Workshop</i> (2017) Recognizing Pathogenic Empathy in Social Media M. Abdul-Mageed, A. Buffone, H. Peng, S. Giorgi, J. Eichstaedt, L. Ungar <i>ICWSM</i> (2017) 	
AWARDS AND FELLOWSHIPS	<p>Awards</p> <ul style="list-style-type: none"> 2nd Prize of the John Hunter Excellence in Plotting Contest, <i>SciPy</i>, 2019 UMich Rackham Travel Grant, 2019 UMSI PhD Travel Grant, 2018, 2019 Travel Scholarship, <i>IC2S2</i>, 2018 <p>Fellowships</p> <ul style="list-style-type: none"> Microsoft Azure Research Award, 2016 Indiana University Data Science Program Fellowship, 2015 Academic Excellence Scholarship of Sun Yat-Sen University, 2011 <p>Other Awards</p> <ul style="list-style-type: none"> First Prize in the Regional Physics Competition, Hubei, China, 2010 Silver Medal in the National Physics Olympiad Contest, China, 2010 	
TEACHING	<p>Graduate Student Instructor University of Michigan</p> <ul style="list-style-type: none"> SI 106 - Programs, Information and People (with Paul Resnick) SI 330 - Data Manipulation (with Matthew Kay) 	<p>Winter 2019 Fall 2018</p>
MEDIA COVERAGE	<p>Research Coverage</p> <ul style="list-style-type: none"> New Scientist [Link] 	<p>Sep 2020</p>
SELECTED TALKS	<p>Conference Presentations</p> <ul style="list-style-type: none"> <i>IC2S2</i>, MIT, USA <i>WWW</i>, San Francisco, USA <i>IC2S2</i>, Northwestern University, USA <i>NetSci</i>, Indianapolis, USA <p>Colloquia and Seminars</p> <ul style="list-style-type: none"> CSS Seminar, UMSI IAR Seminar, UMSI IAR Seminar, UMSI 	<p>July 2020 May 2019 July 2018 June 2017</p> <p>Oct. 2019 April 2019 Nov. 2017</p>

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*
- Multidiscipline: *PLOS ONE*

REFERENCES

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| • Daniel M. Romero
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University of Michigan | • Yong-Yeol Ahn
yyahn@iu.edu
Indiana University Bloomington |
| • Misha Teplitskiy
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University of Michigan | • Filippo Menczer
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Indiana University Bloomington |