Hao Peng

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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 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: Prof. Daniel M. Romero

M.S. in Data Science *Sep. 2015 - May 2017*
Indiana University *Bloomington, IN, USA*
- Advisors: Prof. Yong-Yeol Ahn, Prof. 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: Prof. Emilio Ferrara

Summer Research Intern *May 2016 - Aug. 2016*
University of Pennsylvania *Philadelphia, USA*
- Host: World Well-Being Project
- Supervisor: Prof. Muhammad Abdul-Mageed

JOURNAL PAPERS

1. Author Mentions in Science News Reveal Wide-Spread Ethnic Bias
   H. Peng, M. Teplitskiy, D. Jurgens
   (In Review)

2. Neural Embeddings of Scholarly Periodicals Reveal Complex Disciplinary Organizations
   H. Peng, Q. Ke, C. Budak, D.M. Romero, Y.Y. Ahn
   (In Review)

3. Network Modularity Controls the Speed of Information Diffusion
   H. Peng, A. Nematzadeh, D.M. Romero, E. Ferrara
   Physical Review E 112, 052316 (2020)

4. 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)

5. 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 Prof. Paul Resnick)	Winter 2019
• SI 330 - Data Manipulation (with Prof. 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 • *IC2S2*: 2020 • *CSCW*: 2020

REFERENCES

- Daniel M. Romero
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  University of Michigan

- Misha Teplitskiy
  tepl@umich.edu
  University of Michigan

- Yong-Yeol Ahn
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  Indiana University Bloomington

- Filippo Menczer
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