Hao Peng

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RESEARCH INTERESTS

Computational Social Science, Data Science, Science of Science, Complex Systems, Social Networks, Organizations, Innovation, Inequality, Ethnicity, Gender, Diversity

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, School of Informatics   *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*
- Host: Information Sciences Institute
- 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

PREPRINTS

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)

JOURNAL PAPERS

1. 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)

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

3. 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)

4. 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)   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*, 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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  University of Michigan

- 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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  Indiana University Bloomington