

Siqi Wu

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SUMMARY

I will join the School of Information at the University of Michigan as a research fellow in 2021, working with Prof. Paul Resnick. Prior to UMSI, I was a research fellow at Australian National University. My work lies in the fields of computational social science and social computing.

PROFESSIONAL EXPERIENCE

- Research Staff Contractor | University of Michigan.** Remote 2020.09 – present
- Center for Social Media Responsibility. Adviser: Paul Resnick.
- Research Fellow | Australian National University.** Canberra, ACT, Australia 2020.09 – 2021.03
- Computational Media Lab. Adviser: Lexing Xie.

EDUCATION

- Australian National University.** Canberra, ACT, Australia 2016.06 – 2020.09
- PhD in Computer Science. Advisers: Lexing Xie and Marian-Andrei Rizoioi.
- Thesis: Measuring collective attention in online content: Sampling, engagement, and network effects
- University of Melbourne.** Melbourne, VIC, Australia 2013.07 – 2015.07
- Master of Information Technology. Adviser: Richard Sinnott.
- Thesis: An architecture for big data processing and visualisation of traffic data
- Tianjin University.** Tianjin, China 2008.09 – 2012.06
- Bachelor of Electronics Engineering. Adviser: Yugong Wu.

PUBLICATIONS

9. Cross-partisan discussions on YouTube: Conservatives talk to liberals but liberals don't talk to conservatives
Wu and Resnick. *ICWSM '21*. Full paper, **best paper honorable mention**.
8. AttentionFlow: Visualising influence in networks of time series
Shin*, Tran*, Wu*, Mathews, Wang, Lyall, and Xie. *WSDM '21*. Demo.
7. Unsupervised cyberbullying detection via time-informed Gaussian mixture model
Cheng, Shu, Wu, Silva, Hall, and Liu. *CIKM '20*. Full paper.
6. Variation across scales: Measurement fidelity under Twitter data sampling
Wu, Rizoioi, and Xie. *ICWSM '20*. Full paper.
5. Estimating attention flow in online video networks
Wu, Rizoioi, and Xie. *CSCW '19*. Full paper, **best paper honorable mention**.
4. How is attention allocated? Data-driven studies of popularity and engagement in online videos
Wu. *WSDM '19*. Doctoral consortium.
3. Beyond views: Measuring and predicting engagement in online videos
Wu, Rizoioi, and Xie. *ICWSM '18*. Full paper.
2. Will this video go viral? Explaining and predicting the popularity of YouTube videos

Kong, Rizoiu, **Wu**, and Xie. WWW '18. Demo.

1. SMASH: A cloud-based architecture for big data processing and visualization of traffic data

Wu, Morandini, Sinnott. DSDIS '15. Full paper.

INDUSTRY EXPERIENCE

Software Engineer | MicroStrategy, Inc. Hangzhou, Zhejiang, China

2015.09 – 2016.05

- Big Data Engine team. Built Apache Spark alike engine to process massive data.

Software Developer Intern | Baidu, Inc. Beijing, China

2014.12 – 2015.02

- Baidu Maps team. Developed a tool to collect realtime traffic status.

AWARDS

- AAAI ICWSM Best Paper Honorable Mention '21
- ANU Postgraduate Research Scholarship '20
- ANU VC Travel Grant '20
- ACM CSCW Best Paper Honorable Mention '19
- Google PhD Fellowship '18
- ICWSM Student Travel Scholarship '18
- NICTA PhD Scholarship '16-'19
- NICTA Research Project Award '16-'19
- ANU HDR Fee Remission Merit Scholarship '16-'20

TEACHING

- Teaching assistant in ANU graduate course COMP6490 Document analysis ('17, '18).
- Teaching assistant in ANU undergraduate course COMP1030 Art of computing ('17).

COMMUNITY SERVICE

- Program committee: ASONAM ('21)
- Reviewer: ICWSM ('17, '18, '21, '22), CSCW ('19, '20, '21), WWW ('19, '20), AAAI ('19), TOIS ('20), EPJ Data Science ('21)

RESOURCES

- Datasets: [YouTube political discussions](#), [Complete/sampled retweet cascades](#), [Vevo music graph](#), [YouTube engagement '16](#).
- Demonstrations: [AttentionFlow](#), [HIPie](#).
- Softwares: [Twitter-intact-stream](#), [YouTube-insight](#).

MISC.

- Organizing: co-organized the Computational Media Lab winter workshop '19.
- Certificates: 16 MOOC courses, e.g., machine learning, social network analysis, algorithms, etc.
- Running: 18 100+km events, 50+ ultra marathons finisher, 2:57 marathon.