Siqi Wu

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Research areas	Computational social science; social computing; network science; content consumption; political polarization; digital journalism; data quality

Academic appointments

University of Michigan Ann Arbor, MI, USA — 2021.01 - present
Research Fellow, Center for Social Media Responsibility. Advisor: Paul Resnick

Australian National University Canberra, ACT, Australia — 2020.09 - 2021.03
Research Fellow, Computational Media Lab. Advisor: Lexing Xie

Education

Australian National University Canberra, ACT, Australia — 2016.06 - 2021.04
Ph.D. in Computer Science. Advisor: Lexing Xie

University of Melbourne Melbourne, VIC, Australia — 2013.07 - 2015.07
M.S. in Information Technology. Advisor: Richard Sinnott

Tianjin University Tianjin, China — 2008.09 - 2012.06
B.E. in Electronics Engineering. Advisor: Yugong Wu

Awards

AAAI ICWSM Best Senior Program Committee 2022, 2023

AAAI ICWSM Spotlight Paper 2021

ACM CSCW Best Paper Honorable Mention 2019

Google PhD Fellowship 2018

NICTA PhD Scholarship 2016 – 2020

Publications

* Equal authorship ^ Corresponding author

[1] Liu, A., **Wu, S.**, & Resnick, P. (2024). "How to Train Your YouTube Recommender to Avoid Unwanted Videos." To appear in *the 18th International AAAI Conference on Web and Social Media* (ICWSM'24).

[2] Cai, Y., Xie, L., & **Wu, S.**^ (2023) "The Shapes of the Fourth Estate during the Pandemic: Profiling COVID-19 News Consumption in Eight Countries." *Proceedings of the 26th ACM Conference on Computer-Supported Cooperative Work* (CSCW'23).

[3] Pfeffer, J., Matter, D., Jaidka, K., Varol, O., Mashhadi, A., Lasser, J., Assenmacher, D., **Wu, S.**, Yang, D., Brantner, C., Romero, D. M., Otterbacher, J., Schwemmer, C., Joseph, K., Garcia, D., & Morstatter, F. (2023). "Just Another Day on Twitter: A Complete 24 Hours of Twitter Data." *Proceedings of the 17th International AAAI Conference on Web and Social Media* (ICWSM'23).

[4] **Wu, S.** (2022). "Measuring Collective Attention in Online Content." *ACM SIGWEB Newsletter*.

[5] Lee, J.,* **Wu, S.**,* Ertugrul, A. M.,* Lin, Y.-R., & Xie, L. (2022). "Whose Advantage? Measuring Attention Dynamics across YouTube and Twitter on Controversial Topics." *Proceedings of the 16th International AAAI Conference on Web and Social Media* (ICWSM'22).

[6] ♀ **Wu, S.**, & Resnick, P. (2021). "Cross-Partisan Discussions on YouTube: Conservatives Talk to Liberals but Liberals Don't Talk to Conservatives." *Proceedings of the 15th International AAAI Conference on Web and Social Media* (ICWSM'21). **Spotlight Paper (top 8)**

[7] Shin, M.,* Tran, A.,* **Wu, S.**,* Mathews, A., Wang, R., Lyall, G., & Xie, L. (2021). "AttentionFlow: Visualising Influence in Networks of Time Series." In *Proceedings of the 14th ACM International Conference on Web Search and Data Mining* (WSDM'21).

[8] Cheng, L., Shu, K., **Wu, S.**, Silva, Y. N., Hall, D. L., & Liu, H. (2020). "Unsupervised Cyberbullying Detection via Time-Informed Gaussian Mixture Model." In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management* (CIKM'20).

[9] **Wu, S.**, Rizoiu, M. A., & Xie, L. (2020). "Variation across Scales: Measurement Fidelity under Twitter Data Sampling." *Proceedings of the 14th International AAAI Conference on Web and Social Media* (ICWSM'20).

[10] ♀ **Wu, S.**, Rizoiu, M. A., & Xie, L. (2019). "Estimating Attention Flow in Online Video Networks". *Proceedings of the 22nd ACM Conference on Computer-Supported Cooperative Work* (CSCW'19). **Best Paper Honorable Mention (top 5%)**

[11] **Wu, S.**, Rizoiu, M. A., & Xie, L. (2018). "Beyond Views: Measuring and Predicting Engagement in Online Videos." *Proceedings of the 12th International AAAI Conference on Web and Social Media* (ICWSM'18).

[12] Kong, Q., Rizoiu, M. A., **Wu, S.**, & Xie, L. (2018). "Will This Video Go Viral? Explaining and Predicting the Popularity of YouTube Videos." In *Companion Proceedings of the The Web Conference* (WWW'18 Companion).

[13] **Wu, S.**, Morandini, L., & Sinnott, R. O. (2015). "SMASH: A Cloud-Based Architecture for Big Data Processing and Visualization of Traffic Data." In *Proceedings of the IEEE International Conference on Data Science and Data Intensive Systems* (DSDIS'15).

Working papers

[1] **Wu, S.**, & Resnick, P. "Prevalence Estimation in Social Media Using Black Box Classifiers."

[2] Schöpke-Gonzalez, A., **Wu, S.**, Kumar, S., Resnick, P., & Hemphill, L. "How We Define Harm Impacts Data Annotations: Explaining How Annotators Distinguish Hateful, Offensive, and Toxic Comments."

[3] **Wu, S.**, Rajadesingan, A., Budak, C., Garrett, K., Sude, D., & Resnick, P. "ACT: Active Crowd Training for Crowdsourced Labeling."

Teaching

Instructor in ICWSM 2023 tutorial "Prevalence Estimation in Social Media Using Black Box Classifiers" (2023)

Teaching Assistant in ANU course COMP6490 "Document Analysis" (2017, 2018)

Teaching Assistant in ANU course COMP1030 "Art of Computing" (2017)

Students

Alexander Liu (UMich PhD)

Cai Yang (ANU undergraduate) → Saarland University/Max Planck Institute

Services	ICWSM 2023 Poster, Demo, and Dataset Track Co-chair
	ICWSM 2022 Student Volunteer and Scholarship Chair
	Senior Program Committee

- ICWSM (2022 – 2024)

Conference Program Committee/Reviewer

- TheWebConf (2019, 2020, 2023, 2024)
- WebSci (2022 – 2024)
- IC2S2 (2023, 2024)
- CHI (2024)
- CSCW (2019 – 2023)
- ICIS (2022, 2023)
- CIKM (2023)
- ASONAM (2021, 2022)
- ICWSM (2017, 2018, 2021)
- AAAI (2019)

Ad Hoc Journal Reviewer

- EPJ Data Science
- Collective Intelligence
- Social Science Computer Review
- ACM Transactions on Information Systems

Industry experience	**MicroStrategy** Hangzhou, Zhejiang, China	2015.09 - 2016.05
	Software Engineer, Big Data Engine team	
	Baidu Beijing, China	2014.12 - 2015.02
	Software Developer Intern, Baidu Maps team	

Miscellaneous	Co-organized the Computational Media Lab winter workshop 2019
	Long-distance running: 60+ (ultra) marathons finisher, 2:42 marathoner