

# Siqi Wu

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<https://avalanchesiqi.github.io>


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


**Academic appointments** **University of Michigan** Ann Arbor, MI, USA 2021.01 - present  
*Postdoctoral Research Fellow*, School of Information. Advisor: Paul Resnick  
**Australian National University** Canberra, ACT, Australia 2020.09 - 2021.03  
*Research Fellow*, School of Computing. 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 ([4], top 8)  
ACM CSCW Best Paper Honorable Mention 2019 ([6], top 5%)  
Google PhD Fellowship 2018  
NICTA PhD Scholarship 2016 – 2020

**Selected publications** Below are a few selected publications. For a full list, see my Google Scholar page  
<https://scholar.google.com/citations?user=xUgVEuAAAAAJ>  
\* 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.**<sup>^</sup> (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] 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)*.
- [4]  **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)*.
- [5] **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)*.

- [6]  **Wu, S.**, Rizoio, 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)*.
- [7] **Wu, S.**, Rizoio, 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)*.

## Working papers

- [1] **Wu, S.**, & Resnick, P. “Calibrate-Extrapolate: Rethinking Prevalence Estimation with Black Box Classifiers” (under review)
- [2] Resnick, P., **Wu, S.**, & Lyapota, V. “The H|O|T News Comments Metric.”
- [3] **Wu, S.**, Rajadesingan, A., Budak, C., Garrett, K., Sude, D., & Resnick, P. “ACT: Active Crowd Training for Crowdsourced Labeling.”

## Teaching

*Instructor* in ICWSM tutorial “Prevalence Estimation in Social Media Using Black Box Classifiers” (2023, 2024)

*Teaching Assistant* in ANU course COMP6490 “Document Analysis” (2017, 2018)

*Teaching Assistant* in ANU course COMP1030 “Art of Computing” (2017)

## Mentoring

Alexander Liu (UMich PhD)

Zain Padamsee (Bowdoin College undergrad)

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

## Professional 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

- CSCW (2019 – 2024)
- TheWebConf (2019, 2020, 2023, 2024)
- WebSci (2022 – 2024)
- IC2S2 (2023, 2024)
- CHI (2024)
- CCS (2024)
- 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

<b>Invited talks</b>	Gradient Institute, Jul 2022	
	UChicago Human+AI Lab, Nov 2021	
	Meta Core Data Science, Aug 2021	
	Tsinghua Future Intelligence Lab, May 2021	
	Google PhD Summit, Jul 2019	
	ANU CECS Winter School, Jul 2019	
<b>Industry experience</b>	<b>MicroStrategy</b> Hangzhou, Zhejiang, China <i>Software Engineer</i> , Big Data Engine team	2015.09 - 2016.05
	<b>Baidu</b> Beijing, China <i>Software Developer Intern</i> , Baidu Maps team	2014.12 - 2015.02
<b>Miscellaneous</b>	Co-organized the Computational Media Lab winter workshop 2019	
	Long-distance running: 60+ (ultra) marathons finisher, 2:42 marathoner	