

# Siqi Wu

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## SUMMARY

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I will join the School of Information at University of Michigan as a research fellow in 2021. I am currently a research fellow in the Computational Media Lab at Australian National University. My work lies in the fields of computational social science and social computing.

## PROFESSIONAL EXPERIENCE

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- Research Fellow | Australian National University.** Canberra, ACT, Australia **2020.09 – present**  
- Computational Media Lab. Adviser: Lexing Xie.
- Visiting Research Assistant | University of Michigan.** Remote **2020.05 – present**  
- Center for Social Media Responsibility. Adviser: Paul Resnick.

## EDUCATION

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- Australian National University.** Canberra, ACT, Australia **2016.06 – 2020.09**  
- PhD in Computer Science. Advisers: Lexing Xie and Marian-Andrei Rizoiu.  
- 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.

## PUBLICATIONS

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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, AR=21%.
6. Variation across scales: Measurement fidelity under Twitter data sampling  
**Wu**, Rizoiu, and Xie. *ICWSM '20*. Full paper, AR=17%.
5. Estimating attention flow in online video networks  
**Wu**, Rizoiu, and Xie. *CSCW '19*. Full paper, **best paper honourable mention**, top 5%, AR=31%.
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**, Rizoiu, and Xie. *ICWSM '18*. Full paper, AR=16%.
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

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- 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

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- ANU Postgraduate Research Scholarship '20
- ANU VC Travel Grant '20
- 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

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

## COMMUNITY SERVICE

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

## RESOURCES

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

## MISC.

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- 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.