

Siqi Wu

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SUMMARY

I am a PhD student at the Computational Media Lab in the Australian National University. I am also affiliated with CSIRO Data61 and a recipient of Google PhD fellowship. My work lies in the fields of computational social science, social computing, machine learning, and data mining.

EDUCATION

Australian National University. Canberra, ACT, Australia **2016.06 – 2020.08 (expected)**

- 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.

PROFESSIONAL EXPERIENCE

Visiting Research Assistant | University of Michigan. Remote due to COVID-19 **2020.05 – present**

- Center for Social Media Responsibility. Adviser: Paul Resnick.

Software Engineer | MicroStrategy, Inc. Hangzhou, Zhejiang, China **2015.09 – 2016.05**

- Big Data Engine team. Built Apache Spark alike engine to process massive data with 5 colleagues.

Software Developer Intern | Baidu, Inc. Beijing, China **2014.12 – 2015.02**

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

PUBLICATIONS

7. Unsupervised cyberbullying detection via time-informed deep clustering.
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=24%.
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.

RESOURCES

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

TEACHING

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

AWARDS

- 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

COMMUNITY SERVICE

- External reviewer: ICWSM ('17, '18, '21), CSCW ('19, '20), WWW ('19, '20), AAAI ('19)

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.