

# Siqi Wu

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## SUMMARY

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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

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

- PhD in Computer Science, Computational Media Lab.
- Advised by Prof. Lexing Xie, Dr. Marian-Andrei Rizoiu, and Dr. Cheng Soon Ong.
- Virtually visited the CSMR group in the University of Michigan, hosted by Prof. Paul Resnick.
- 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.
- Thesis: An architecture for big data processing and visualisation of traffic data.

**Tianjin University**, Tianjin, China **2008.09 – 2012.06**

- Bachelor of Electronics Engineering.

## EMPLOYMENT

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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 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

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1. Variation across scales: Measurement fidelity under Twitter data sampling.  
**Wu**, Rizoiu, and Xie. *ICWSM '20*. Full paper, AR=24%.
2. Estimating attention flow in online video networks.  
**Wu**, Rizoiu, and Xie. *CSCW '19*. Full paper, **honourable mention award**, top 5%, AR=31%.
3. How is attention allocated? Data-driven studies of popularity and engagement in online videos.  
**Wu**. *WSDM '19*. Doctoral consortium.
4. Beyond views: Measuring and predicting engagement in online videos.  
**Wu**, Rizoiu, and Xie. *ICWSM '18*. Full paper, AR=16%.
5. Will this video go viral? Explaining and predicting the popularity of YouTube videos.  
Kong, Rizoiu, **Wu**, and Xie. *WWW '18*. Demo.
6. SMASH: A cloud-based architecture for big data processing and visualization of traffic data.  
**Wu**, Morandini, Sinnott. *DSDIS '15*. Full paper.

## RESOURCES

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

## 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).

## 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

## COMMUNITY SERVICE

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

## 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: ANU Inward Bound '17 winner, 18 100+km events and 50+ ultra marathons finisher.

## REFERENCES

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- Lexing Xie (PhD advisor)  
Professor, School of Computer Science in the Australian National University.  
[lexing.xie@anu.edu.au](mailto:lexing.xie@anu.edu.au)
- Marian-Andrei Rizoiu (PhD co-advisor)  
Lecturer, Faculty of Engineering and IT in the University of Technology Sydney.  
[marian-andrei.rizoiu@uts.edu.au](mailto:marian-andrei.rizoiu@uts.edu.au)
- Cheng Soon Ong (PhD co-advisor)  
Principal researcher, Machine Learning Research Group in CSIRO Data61.  
[chengsoon.ong@anu.edu.au](mailto:chengsoon.ong@anu.edu.au)