Siqi Wu

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RESEARCH INTERESTS

I am broadly interested in measuring and modeling collective social behavior on web context. My work lies at the fields of computational social science, social computing, and data mining.

EDUCATION

Australian National University, Canberra, Australia   **2016.06 — 2020.06 (expected)**
- PhD in Computer Science, affiliated with Data61/CSIRO. Advised by Lexing Xie.
University of Melbourne, Melbourne, Australia   **2013.07 — 2015.07**
- Master of Information Technology. Advised by Richard Sinnott.
Tianjin University, Tianjin, China   **2008.09 — 2012.06**
- Bachelor of Electronics Engineering.

EMPLOYMENT

Software engineer | MicroStrategy, Inc, Hangzhou, Zhejiang, China   **2015.09 — 2016.05**
- Built a framework to process massive data, Big Data Engine team.
Intern, Software developer | Baidu, Inc, Beijing, China   **2014.12 — 2015.02**
- Developed a tool to collect realtime traffic status, Baidu Maps team.

PROJECTS

Human attention in online videos | ANU   **2016.06 — present**
- Understanding user attention allocation in YouTube, e.g., video-level popularity and engagement.
- Designed and maintained the system infrastructure to power data-driven studies in social media.
Big data architecture, analysis and visualisation | AURIN   **2015.03 — 2015.08**
- Deployed in *Australian Urban Research Infrastructure Network* (AURIN) systems.
- Set up a platform that consists of GeoSever, GeoMesa, Accumulo, Spark, Hadoop to process large spatio-temporal data and delivered an analysis on Melbourne migration movement.

PUBLICATIONS

1. Variation across scales: Measurement fidelity under Twitter data sampling.
   Wu, Rizoiu, and Xie. ICWSM '20.
2. Estimating attention flow in online video networks.
   Wu, Rizoiu, and Xie. CSCW '19. **Honourable mention**.
3. Beyond views: Measuring and predicting engagement in online videos.
   Wu, Rizoiu, and Xie. ICWSM '18.
4. Will this video go viral? Explaining and predicting the popularity of YouTube videos.
   Kong, Rizoiu, **Wu**, and Xie. WWW (Demo) '18.
5. SMASH: A cloud-based architecture for big data processing and visualization of traffic data.
   Sinnott, Morandini, **Wu**. DSDIS '15.

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

TEACHING AND SERVICE

- Teaching assistance: Document analysis ('17,'18), Art of computing ('17)
- External reviewer: ICWSM ('17,'18), WWW ('19,'20), AAAI ('19), CSCW ('19)

MISC

- 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.