Siqi Wu

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SUMMARY

I will join the School of Information at the University of Michigan as a research fellow in Fall 2021, working with Prof. Paul Resnick. Prior to UMSI, I was a research fellow at the Australian National University. My work lies in the fields of computational social science and social computing.

PROFESSIONAL EXPERIENCE

Research Consultant | University of Michigan. Remote *2020.09 – present*
- Center for Social Media Responsibility. Adviser: Paul Resnick.

Research Fellow | Australian National University. Canberra, ACT, Australia *2020.09 – 2021.03*
- Computational Media Lab. Adviser: Lexing Xie.

EDUCATION

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. Adviser: Yugong Wu.

PUBLICATIONS

9. Cross-partisan discussions on YouTube: Conservatives talk to liberals but liberals don't talk to conservatives
   Wu and Resnick. *ICWSM '21*. Full paper, best paper finalist.
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.
6. Variation across scales: Measurement fidelity under Twitter data sampling
   Wu, Rizoiu, and Xie. *ICWSM '20*. Full paper.
5. Estimating attention flow in online video networks
   Wu, Rizoiu, and Xie. *CSCW '19*. Full paper, best paper honorable mention.
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.

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

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

- AAAI ICWSM Best Paper Finalist *'21*
- ANU Postgraduate Research Scholarship *'20*
- ANU VC Travel Grant *'20*
- ACM CSCW Best Paper Honorable Mention *'19*
- 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

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

COMMUNITY SERVICE

- Senior program committee: ICWSM ('22)
- Program committee/Reviewer: ICWSM (*'17*, *'18*, *'21*), CSCW (*'19-'22*), WWW (*'19*, *'20*), AAAI (*'19*), ACM TOIS (*'20*), EPJ Data Science ('21), ASONAM ('21)

RESOURCES

- Datasets: YouTube political discussions, Complete/sampled retweet cascades, Vevo music graph, YouTube engagement *'16*.
- Demonstrations: AttentionFlow, HIPie.
- Softwares: Twitter-intact-stream, YouTube-insight.

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.