

Xinyi Zhou

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EMPLOYMENT

Paul G. Allen School, University of Washington , Seattle, WA, USA Postdoctoral Scholar	1/2023–Present
Syracuse University , Syracuse, NY, USA Graduate Research/Teaching Assistant	8/2017–12/2022
University of Southern California , Los Angeles, CA, USA Research Intern	5/2020–8/2020
Southwest University , Chongqing, China Undergraduate Research Assistant	9/2014–6/2017

EDUCATION

Ph.D. in Computer & Information Science & Engineering Syracuse University, Syracuse, NY, USA	12/2022
B.S. in Computer Science Southwest University, Chongqing, China	6/2017

GRANTS

\$9,200 (Sole PI) , Paul G. Allen School of Computer Science & Engineering, UW <i>Transparent and theory-grounded ideology prediction with large language models</i>	2024–2025
\$21,228 (Co-PI) , Center for an Informed Public, UW <i>An explainable AI-powered system for (multimodal) fact-checking prioritization</i>	2023–2024

PUBLICATIONS (*: equal contributions)

See the full list in Google Scholar ([citations: 3900+](#), [h-index: 16](#))

- [18] **Xinyi Zhou**, Ashish Sharma, Amy X Zhang, Tim Althoff. Correcting misinformation on social media with a large language model. *arXiv preprint (under review at Nature)*, pp. 1-53. 2024.
- [17] **Xinyi Zhou***, Jiayu Li*, Qinzhou Li, Reza Zafarani. Linguistic-style-aware Neural Networks for Fake News Detection. *arXiv preprint*, pp. 1-8. 2023.
- [16] **Xinyi Zhou**, Kai Shu, Vir V Phoha, Huan Liu, Reza Zafarani. “This is Fake! Shared it by Mistake”: Assessing the Intent of Fake News Spreaders. In *Proceedings of the ACM Web Conference (WWW)*, pp. 3685-3694. 2022.
- [15] **Xinyi Zhou**, Reza Zafarani, Emilio Ferrara. From Fake News to #FakeNews: Mining Direct and Indirect Relationships among Hashtags for Fake News Detection. *arXiv preprint*, pp. 1-8. 2022.
- [14] Chen Yang, **Xinyi Zhou**, Reza Zafarani. CHECKED: Chinese COVID-19 fake news dataset. *Social Network Analysis and Mining*, pp. 1-8. 2021.
- [13] **Xinyi Zhou**, Reza Zafarani. A survey of fake news: Fundamental theories, detection methods, and opportunities. *ACM Computing Surveys (CSUR) impact factor: 16.6*, pp. 1-40. 2020. *ESI top 1% highly cited paper*

- [12] **Xinyi Zhou***, Jindi Wu*, Reza Zafarani. SAFE: Similarity-Aware Multimodal Fake News Detection. In *Proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)*, pp. 354-367. 2020.
- [11] **Xinyi Zhou**, Apurva Mulay, Emilio Ferrara, Reza Zafarani. ReCOVerY: A Multimodal Repository for COVID-19 News Credibility Research. In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 3205-3212. 2020.
- [10] **Xinyi Zhou**, Shengmin Jin, Reza Zafarani. Sentiment Paradoxes in Social Networks: Why Your Friends Are More Positive Than You? In *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)*, pp. 798-807. 2020.
- [9] **Xinyi Zhou**, Atishay Jain, Vir V Phoha, Reza Zafarani. Fake news early detection: A theory-driven model. *ACM Digital Threats: Research and Practice (DTRAP)*, pp. 1-25. 2020. [Most cited paper in DTRAP](#)
- [8] Niraj Sitaula, Chilukuri K Mohan, Jennifer Grygiel, **Xinyi Zhou**, Reza Zafarani. Credibility-based fake news detection. *Disinformation, Misinformation, and Fake News in Social Media*, pp. 163-182. 2020.
- [7] Kai Shu, **Xinyi Zhou**, Suhang Wang, Reza Zafarani, Huan Liu. The Role of User Profiles for Fake News Detection. In *Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp. 436-439. 2019.
- [6] **Xinyi Zhou**, Reza Zafarani. Network-based fake news detection: A pattern-driven approach. *ACM SIGKDD Explorations Newsletter*, pp. 48-60. 2019.
- [5] Reza Zafarani, **Xinyi Zhou**, Kai Shu, Huan Liu. Fake News Research: Theories, Detection Strategies, and Open Problems. In *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, pp. 3207-3208. 2019.
- [4] **Xinyi Zhou**, Reza Zafarani, Kai Shu, Huan Liu. Fake News: Fundamental Theories, Detection Strategies and Challenges. In *Proceedings of the 12th ACM International Conference on Web Search and Data Mining (WSDM)*, pp. 836-837. 2019.
- [3] **Xinyi Zhou**, Reza Zafarani. Fake News Detection: An Interdisciplinary Study. In *Companion Proceedings of the World Wide Web Conference*, pp. 1292-1292. 2019.
- [2] **Xinyi Zhou**, Yong Hu, Yong Deng, Felix TS Chan, Alessio Ishizaka. A DEMATEL-based completion method for incomplete pairwise comparison matrix in AHP. *Annals of Operations Research*, pp. 1045-1066. 2018.
- [1] **Xinyi Zhou**, Yangqiuyan Shi, Xinyang Deng, Yong Deng. D-DEMATEL: A new method to identify critical success factors in emergency management. *Safety Science*, pp. 93-104. 2017. [The 100 most influential research papers of 2017 in China](#)

PRESENTATIONS

Trust & Safety Research Conference, Stanford University, Stanford, CA, USA	9/2024
<i>Lightning</i> – Correcting misinformation with a large language model	
UW Data Science Seminar, Seattle, WA, USA	9/2024
<i>Invited talk</i> – Correcting misinformation on social media with a large language model	
UW Center for an Informed Public, Seattle, WA, USA	2/2024
<i>Invited talk</i> – Correcting misinformation on social media with a large language model	
WWW, Online	4/2022
<i>Oral</i> – “This is fake! Shared it by mistake”: Assessing the intent of fake news spreaders	

CIKM , Online	10/2020
<i>Oral</i> – ReCOVeRY: A multimodal repository for COVID-19 news credibility research	
PAKDD , Online	5/2020
<i>Oral</i> – SAFE: Similarity-aware multimodal fake news detection	
KDD , Anchorage, AK, USA	8/2019
<i>Tutorial</i> – Fake news research: Theories, detection strategies, and open problems (w/ Huan Liu, Kai Shu, Reza Zafarani)	
Workshop on Women in Web Data Science @ WWW , San Francisco, CA, USA	5/2019
<i>Lightning</i> – Fake news detection: An interdisciplinary study	
WSDM , Melbourne, Australia	2/2019
<i>Tutorial</i> – Fake news: Fundamental theories, detection strategies and challenges (w/ Huan Liu, Kai Shu, Reza Zafarani)	

MENTORING

Sydney Kuhl (BS student @ UW CSE)	9/2023–Present
Lin Qiu (MS student @ UW CSE)	4/2023–Present
Ella Kiciman (high school student @ UPrep)	5/2024–6/2024
Shawn Collinge (BS student @ UW CSE)	11/2023–6/2024
Bingcan “Gloria” Guo (MS student @ UW HCDE)	2/2023–6/2023
Ryan Li (BS @ UW CSE → MS student @ Stanford U)	1/2023–6/2023
Atul Gopalakrishnan (MS @ Syracuse U → PhD student @ SUNY Buffalo)	9/2022–12/2022
Xuanhao Luo (undergrad intern @ Syracuse U → PhD student @ NCSU)	5/2022–8/2022
Qinzhou Li (MS @ Syracuse U → SDE @ Google) [17]	6/2020–11/2021
Xin Chen (MS @ Syracuse U → SDE @ Amazon)	6/2021–9/2021
Tysean Canada (NSF Louis Stokes Alliances for Minority Participation)	6/2021–8/2021
Chen Yang (BS @ Syracuse U → MS student @ USC) [14]	6/2019–6/2021
Ritwik Takkar (BS @ Syracuse U → PhD student @ Cornell U)	9/2020–2/2021
Apurva Mulay (MS @ Syracuse U → MLE @ Aera) [11]	3/2020–6/2020
Jindi Wu (MS @ Syracuse U → PhD student @ William & Mary) [12]	1/2019–4/2020
Atishay Jain (MS @ Syracuse U → MLE @ IPSY) [9]	12/2018–12/2019

TEACHING

TA, Programming Language: Theory & Practice (CIS 352), Syracuse University	Spring 2021
TA, Design and Analysis of Algorithms (CIS 675), Syracuse University	Fall 2020
TA, Design and Analysis of Algorithms (CIS 675), Syracuse University	Spring 2020
TA, Design and Analysis of Algorithms (CIS 675), Syracuse University	Fall 2019

MEDIA

ACM Showcase : <i>New machine learning model for fake news early detection</i>	9/2022
The Data Exchange Podcast <i>top 0.5% of podcasts: Detecting Fake News</i>	11/2020
Syracuse University News : <i>EECS Student Xinyi Zhou Selected as First Recipient of the Pramod K. and Anju Varshney Endowed Graduate Scholarship</i>	1/2020
Datanami : <i>AI Squares Off Against Fake News</i>	9/2019
Psychology Today : <i>What is Fake News? Is Debate Worth the Effort?</i>	2/2019

AWARDS & HONORS

UW CSE Postdoc Research Award	5/2024
Syracuse University Doctoral Prize (<i>highest honor in the Graduate School</i>)	3/2023
UW Data Science Postdoctoral Fellow	10/2022
Syracuse University Research Excellence Doctoral Fellowship	1/2022
Varshney Graduate Scholarship (<i>sole recipient, featured in Syracuse University News</i>)	12/2019
The 100 Most Influential Research Papers of 2017 in China [1]	11/2018
China National Scholarship	10/2016

SERVICES

Program Committee Member

AAAI	2025
KDD (ADS), AAAI, WSDM, CIKM, IEEE CogMI	2024
KDD (ADS), AAAI, SIGIR (resource), CIKM, ECML-PKDD, IJCNN, IEEE CogMI	2023
KDD (ADS), SIGIR (resource), WSDM, CIKM (short), CHIIR (demo & resource), ASONAM	2022
SIGIR (resource), CIKM (resource), ECIR (tutorial), ASONAM, IEEE CogMI	2021
CIKM (resource)	2020

Journal Reviewer

TOIS, WWW, KAIS	2023
CSUR, TOIS, TCSS, Neurocomputing, OMEGA	2022
CSUR, TKDE, TMM, TWEB, TIFS, PRL, SNAM	2021
CSUR, TMM, TOMM, TNNLS, TALLIP, TETCI, IPM, Neurocomputing, SNAM	2020
DTRAP	2019

Conference Sub-reviewer / Workshop PC Member

KDD, CONSTRAINT@ACL, ROMCIR@ECIR	2022
SIGIR, KDD, ICIS, Globecom, NRI@WWW, ROMCIR@ECIR	2021
WWW, KDD, WSDM, HICSS	2020
KDD, CIKM, SBP-BRiMS	2019