Kaicheng Yang

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EDUCATION Ph.D., Informatics, Indiana University Jun. 2023

M.S., Theoretical Physics, Lanzhou University (China)

B.S., Theoretical Physics, Lanzhou University (China)

Jun. 2017

Jun. 2014

Publications Journal Articles

- J1. Pierri, F., DeVerna, M. R., Yang, K.-C., Axelrod, D., Bryden, J. & Menczer, F. One Year of COVID-19 Vaccine Misinformation on Twitter: Longitudinal Study. *Journal of Medical Internet Research* 25, e42227 (2023).
- J2. Yang, K.-C., Aronson, B., Odabas, M., Ahn, Y.-Y. & Perry, B. L. Comparing measures of centrality in bipartite patient-prescriber networks: A study of drug seeking for opioid analgesics. *PLoS ONE* **17**, e0273569 (2022).
- J3. Yang, K.-C., Ferrara, E. & Menczer, F. Botometer 101: Social bot practicum for computational social scientists. *Journal of Computational Social Science* 5, 1511–1528 (2022).
- J4. Yang, K.-C., Hui, P.-M. & Menczer, F. How Twitter data sampling biases U.S. voter behavior characterizations. *PeerJ Computer Science* **8**, e1025 (2022).
- J5. Duan, Z., Li, J., Lukito, J., Yang, K.-C., Chen, F., Shah, D. V. & Yang, S. Algorithmic Agents in the Hybrid Media System: Social Bots, Selective Amplification, and Partisan News about COVID-19. *Human Communication Research* 48, 516–542 (2022).
- J6. Perry, B. L., Odabas, M., Yang, K.-C., Lee, B., Kaminski, P., Aronson, B., Ahn, Y.-Y., Oser, C. B., Freeman, P. R. & Talbert, J. C. New means, new measures: Assessing prescription drug seeking indicators over ten years of the opioid epidemic. *Addiction* 117, 195–204 (2022).
- J7. Pierri, F., Perry, B. L., DeVerna, M., Yang, K.-C., Flammini, A., Menczer, F. & Bryden, J. Online misinformation is linked to early COVID-19 vaccination hesitancy and refusal. *Scientific Reports* 12, 5966 (2022).
- J8. Yang, K.-C., Lee, B., Ahn, Y.-Y. & Perry, B. L. Use of and Comorbidities Associated With Diagnostic Codes for COVID-19 in US Health Insurance Claims. *JAMA Network Open* 4, e2124643 (2021).
- J9. Yang, K.-C., Pierri, F., Hui, P.-M., Axelrod, D., Torres-Lugo, C., Bryden, J. & Menczer, F. The COVID-19 Infodemic: Twitter versus Facebook. *Big Data & Society* 8, 20539517211013861 (2021).
- J10. Lee, B., Yang, K.-C., Kaminski, P., Ahn, Y.-Y., Peng, S., Odabas, M., Gupta, S., Green, H. & Perry, B. L. Substitution of Nonpharmacologic Therapy With Opioid Prescribing for Pain During the COVID-19 Pandemic. *JAMA Network Open* 4, e2138453 (2021).
- J11. Wen, C., Pacheco, D., Yang, K.-C. & Menczer, F. Neutral bots probe political bias on social media. *Nature Communications* **12**, 5580 (2021).
- J12. Yan, H., Yang, K.-C., Menczer, F. & Shanahan, J. Asymmetrical Perceptions of Partisan Political Bots. *New Media & Society* 23, 3016–3037 (2021).

- J13. Pasquetto, I. V., Swire-Thompson, B., Amazeen, M. A., Benevenuto, F., Brashier, N., Bond, R. M., Bozarth, L. C., Budak, C., Ecker, U. K., ... & Yang, K.-C. Tackling misinformation: What researchers could do with social media data. *The Harvard Kennedy School (HKS) Misinformation Review* 1 (2020).
- J14. Yang, K.-C., Varol, O., Davis, C. A., Ferrara, E., Flammini, A. & Menczer, F. Arming the public with artificial intelligence to counter social bots. *Human Behavior and Emerging Technologies*, e115 (2019).
- J15. Perry, B. L., **Yang, K.-C.**, Kaminski, P., Odabas, M., Park, J., Martel, M., Oser, C. B., Freeman, P. R., Ahn, Y.-Y. & Talbert, J. Co-prescription network reveals social dynamics of opioid doctor shopping. *PLoS ONE* **14**, e0223849 (2019).
- J16. Shao, C., Ciampaglia, G. L., Varol, O., Yang, K.-C., Flammini, A. & Menczer, F. The spread of low-credibility content by social bots. *Nature Communications* 9, 4787 (2018).

Peer-reviewed Conference Proceedings

- C1. Torres-Lugo, C., Yang, K.-C. & Menczer, F. The Manufacture of Partisan Echo Chambers by Follow Train Abuse on Twitter in Proceedings of the International AAAI Conference on Web and Social Media (ICWSM) 16 (Atlanta, GA, USA, 2022), 1017–1028.
- C2. Yang, K.-C., Varol, O., Hui, P.-M. & Menczer, F. Scalable and Generalizable Social Bot Detection through Data Selection in Proceedings of the AAAI Conference on Artificial Intelligence (AAAI) 34 (New York, NY, USA, 2020), 1096–1103.
- C3. Sayyadiharikandeh, M., Varol, O., Yang, K.-C., Flammini, A. & Menczer, F. Detection of Novel Social Bots by Ensembles of Specialized Classifiers in Proceedings of the 29th ACM International Conference on Information & Knowledge Management (CIKM) (Virtual, 2020), 2725–2732.

PRESENTATIONS Tutorials and Demos

iutorials and Demos			
Identifying Social Media Manipulation with OSoMe Tools			
Computation + Journalism Conference – C+J 2022 (Virtual)	Jun.	2022	
IC^2S^2 2020 (Virtual)	Jul.	2020	
Introduction to Botometer®			
Visit by former Dominican Republic president Leonel Fernández (Bloomington, USA)	Apr.	2022	
Invited demo at the Learning Informatics Lab, University of Minnesota (Virtual)	Mar.	2022	
Knight Research Network Tool Demonstration Day (Virtual)	Oct.	2021	
 Fast and Flexible Ranking on Bipartite Networks with Python and R 			
Indiana University Network Institute workshop series (Bloomington, USA)	Nov.	2021	
Talks			
 Fantastic bots and how to find them [J3, 0, J11, J12, 0, C2, C3, J14] 			
Invited talk at Social Computing Group, University of Zurich (Virtual)	Feb.	2023	
Invited talk at Computational Methods Research Group, UW-Madison (Virtual)	Feb.	2023	
• The COVID-19 Infodemic: prevalence, adverse actors, and real-world impact [J7, J9,	0]	
2022 INFORMS Annual Meeting (Indianapolis, USA)	Oct.	2022	
Invited talk at Computational Social Science Lab at Penn (Virtual)	Jun.	2022	
Future Leaders Summit 2022 (Ann Arbor, USA)	Apr.	2022	
 The COVID-19 Infodemic: Twitter versus Facebook [J9] 			
Social Media Lab Guest Speaker Series (Virtual)	Oct.	2021	
IC^2S^2 2021 (Virtual)	Jul.	2021	
NetSci 2021 (Virtual)	Jul.	2021	

	Computation + Journalism Symposium – C+J 2021 (Virtual)	Feb. 2021
	The 3rd North American Social Networks Conference – NASN 2021 (Virtual)	Jan. 2021
•	Bipartite Network Centrality Comparison: A Study of Opioid Doctor Shopping	g [J2]
	IC^2S^2 2020 (Virtual)	Jul. 2020
•	Prevalence of Low-Credibility Information on Twitter During the COVID-19 Ou	ıtbreak [<mark>0</mark>]
	CySoc 2020 (Virtual)	Jun. 2020
•	BotometerLite [C2]	
	IC^2S^2 2020 (Virtual)	Jul. 2020
	AAAI 2020 (New York IISA)	Fob 2020

SERVICE

Workshop Organizer: International Workshop on Cyber Social Threats 2022 (CySoc); International Workshop on Cyber Social Threats 2023 (CySoc);

Conference Reviewer: CSCW (22, 23); CIKM (21,22); ICWSM (20-22); WebSci (22); WebConf (22);

Journal Reviewer: Big Data & Society (21); BMC Digital Health (23); Decision Support Systems (22); Humanities & Social Sciences Communications (21-23); IEEE Transactions on Knowledge and Data Engineering (21); Information, Communication and Society (21); Information Processing & Management (21); Journal of Computational Social Science (22); Journal of Medical Internet Research (22, 23); Journal of the Royal Society Interface (22); Online Social Networks and Media (21, 22); PLoS ONE (21, 22); PNAS (23); Scientific Reports (22); Social Network Analysis and Mining (21, 22); etc.

In the press

Selected Quotations and Interviews

TechCrunch (Feb. 2023); CNN (Feb. 2023); Tech Policy Press (Feb. 2023); WIRED (Sep. 2022); WIRED (Sep. 2022); BBC (Aug. 2022); Yahoo! Finance (Aug. 2022); CNN (Aug. 2022); Yahoo! Finance (Aug. 2022); CNN (Jun. 2022); The Wall Street Journal (Jun. 2022); The Washington Post (May 2022); Politico (May 2022); Business Insider (May 2022); Yahoo! News (May 2022);

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