

# Kai-Cheng Yang

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CONTACT        Network Science Institute  
INFORMATION   Northeastern University  
                    177 Huntington Ave  
                    Boston, MA 02115, US

yang3kc@gmail.com  
kaichengyang.me  
Google Scholar

APPOINTMENTS **Northeastern University**, MA, US

AFFILIATIONS    Postdoctoral Research Associate, Network Science Institute                      Aug. 2023 –  
                         Affiliated Researcher, **NULab for Text, Maps, and Networks**                      Sep. 2023 –  
                         Affiliated Researcher, **Internet Democracy Initiative**                      Jan. 2024 –  
                         Affiliated Researcher, **AI Literacy Lab**    Jul. 2024 –

EDUCATION      **Ph.D.**, Informatics, Indiana University, IN, US (Dissertation [**O2**])                      Jun. 2023  
                         **M.S.**, Theoretical Physics, Lanzhou University, China                                      Jun. 2017  
                         **B.S.**, Theoretical Physics, Lanzhou University, China                                      Jun. 2014

RESEARCH        My research focuses on creating safe, fair, and trustworthy online information platforms by  
INTERESTS        identifying how **malicious actors** and **flawed systems distort information flow** and devel-  
                         oping effective **countermeasures**. My **current focuses** are:

- **Generative AI in online platforms**: creating fake accounts [**J2**], enhancing social bots [**J1**];  
distorting information flow [**R1**]; combating misinformation [**C1**, **R4**];
- **Classic social media bot**: detection (**Botometer**<sup>®</sup>) [**J7**, **C4**, **C5**, **J22**]; characterization [**J9**,  
**W7**]; human perception [**J5**, **J17**];
- **Misinformation**: prevalence [**J4**, **J13**, **W5**]; dissemination [**J25**]; real-world impact [**J11**];

## Past Projects

- **US opioid epidemic**: intervention policy evaluation [**J15**]; high-risk patients [**J6**, **J10**, **J23**];  
impact of COVID-19 [**J14**];
- **Network science**: embedding [**J18–J20**]; spreading phenomenon [**R5**, **J24**, **J26**];

PUBLICATIONS    ‡: as corresponding author; †: mentored student

GOOGLE SCHOLAR

## Journal Articles

- J1. **Yang, K.-C.**<sup>‡</sup> & Menczer, F. Anatomy of an AI-powered malicious social botnet. *Journal of Quantitative Description: Digital Media* **4** (2024).
- J2. **Yang, K.-C.**<sup>‡</sup>, Singh, D.<sup>†</sup> & Menczer, F. Characteristics and prevalence of fake social media profiles with AI-generated faces. *Accepted by Journal of Online Trust and Safety; preprint arXiv:2401.02627* (2024).
- J3. Duan, Z., Shao, A., Hu, Y., Lee, H., Liao, X., Suh, Y. J., Kim, J., **Yang, K.-C.**, Chen, K. & Yang, S. Constructing Vec-tionaries to Extract Latent Message Features from Texts: A Case Study of Moral Appeals. *Conditionally accepted by Political Analysis; preprint arXiv:2312.05990* (2023).
- J4. 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).

- J5. Yan, H., **Yang, K.-C.**, Shanahan, J. & Menczer, F. Exposure to social bots amplifies perceptual biases and regulation propensity. *Scientific Reports* **13**, 20707 (2023).
- J6. **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).
- J7. **Yang, K.-C.**<sup>‡</sup>, Ferrara, E. & Menczer, F. Botometer 101: Social bot practicum for computational social scientists. *Journal of Computational Social Science* **5**, 1511–1528 (2022).
- J8. **Yang, K.-C.**<sup>‡</sup>, Hui, P.-M. & Menczer, F. How Twitter data sampling biases U.S. voter behavior characterizations. *PeerJ Computer Science* **8**, e1025 (2022).
- J9. 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).
- J10. 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).
- J11. 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).
- J12. **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).
- J13. **Yang, K.-C.**<sup>‡</sup>, 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).
- J14. 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).
- J15. Lee, B., Zhao, W., **Yang, K.-C.**, Ahn, Y.-Y. & Perry, B. L. Systematic Evaluation of State Policy Interventions Targeting the US Opioid Epidemic, 2007-2018. *JAMA Network Open* **4**, e2036687 (2021).
- J16. Wen, C., Pacheco, D., **Yang, K.-C.** & Menczer, F. Neutral bots probe political bias on social media. *Nature Communications* **12**, 5580 (2021).
- J17. Yan, H., **Yang, K.-C.**, Menczer, F. & Shanahan, J. Asymmetrical Perceptions of Partisan Political Bots. *New Media & Society* **23**, 3016–3037 (2021).
- J18. Yoon, J., **Yang, K.-C.**, Jung, W.-S. & Ahn, Y.-Y. Persona2vec: A Flexible Multi-role Representations Learning Framework for Graphs. *PeerJ Computer Science* **7**, e174 (2021).
- J19. Zhang, Y.-J., **Yang, K.-C.** & Radicchi, F. Model-free hidden geometry of complex networks. *Physical Reviews E* **103**, 012305 (2021).
- J20. Zhang, Y.-J., **Yang, K.-C.** & Radicchi, F. Systematic comparison of graph embedding methods in practical tasks. *Physical Reviews E* **104**, 044315 (2021).
- J21. 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).

- J22. **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).
- J23. 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).
- J24. Zhang, Y.-J., Wu, Z.-X., Holme, P. & **Yang, K.-C.** Advantage of Being Multicomponent and Spatial: Multipartite Viruses Colonize Structured Populations with Lower Thresholds. *Physical Reviews Letters* **123**. (Editors' Suggestion), 138101 (2019).
- J25. 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).
- J26. **Yang, K.-C.**, Wu, Z.-X., Holme, P. & Nonaka, E. Expansion of cooperatively growing populations: Optimal migration rates and habitat network structures. *Physical Reviews E* **95**, 012306 (2017).

#### Peer-reviewed Conference Proceedings

- C1. Alexander, J. H.<sup>†</sup>, Nanda, P. H., **Yang, K.-C.** & Sarvghad, A. Can GPT-4 Models Detect Misleading Visualizations? *Accepted by IEEE Visualization and Visual Analytics (VIS) 2024* (2024).
- C2. Scarano, S., Vasudevan, V., Samory, M., **Yang, K.-C.**, Yang, J. & Grabowicz, P. A. Election Polls on Social Media: Prevalence, Biases, and Voter Fraud Beliefs. *Accepted by the International AAAI Conference on Web and Social Media (ICWSM); preprint arXiv:2405.11146* (2024).
- C3. 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.
- C4. **Yang, K.-C.**<sup>‡</sup>, 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.
- C5. 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.

#### Peer-reviewed Workshop/Demo/Dataset/Software Papers

- W1. Feal, A., Gleason, J., Goel, P., Radford, J., **Yang, K.-C.**, Basl, J., Meyer, M., Choffnes, D., Wilson, C. & Lazer, D. *Introduction to National Internet Observatory in Proceedings of ICWSM Data Challenge Workshop* (Buffalo, NY, USA, 2024).
- W2. Aiyappa, R., DeVerna, M. R., Pote, M., Tran Truong, B., Zhao, W., Axelrod, D., Pessianzadeh, A., Kachwala, Z., Kim, M., Can Seckin, O., Kim, M., Gandhi, S.<sup>†</sup>, Manikonda, A.<sup>†</sup>, Pierri, F., Menczer, F. & **Yang, K.-C.**<sup>‡</sup>. *A Multi-Platform Collection of Social Media Posts about the 2022 U.S. Midterm Elections in Proceedings of the International AAAI Conference on Web and Social Media (ICWSM) 17* (Limassol, Cyprus, 2023), 981–989.
- W3. DeVerna, M. R., Pierri, F., Truong, B. T., Bollenbacher, J., Axelrod, D., Loynes, N., Torres-Lugo, C., **Yang, K.-C.**, Menczer, F. & Bryden, J. *CoVaxxy: A Collection of English-Language Twitter Posts About COVID-19 Vaccines in Proceedings of the International AAAI Conference on Web and Social Media (ICWSM) 15* (Virtual, 2021), 992–999.

- W4. **Yang, K.-C.**, Aronson, B. & Ahn, Y.-Y. BiRank: Fast and Flexible Ranking on Bipartite Networks with R and Python. *Journal of Open Source Software* **5**, 2315 (2020).
- W5. **Yang, K.-C.**<sup>‡</sup>, Torres-Lugo, C. & Menczer, F. *Prevalence of Low-Credibility Information on Twitter During the COVID-19 Outbreak* in *Proceedings of the ICWSM International Workshop on Cyber Social Threats (CySoc)* (Virtual, 2020).
- W6. Hui, P.-M., **Yang, K.-C.**, Torres-Lugo, C. & Menczer, F. *BotSlayer: DIY Real-Time Influence Campaign Detection* in *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM)* **14** (Virtual, 2020), 980–982.
- W7. **Yang, K.-C.**<sup>‡</sup>, Hui, P.-M. & Menczer, F. *Bot Electioneering Volume: Visualizing Social Bot Activity During Elections* in *Companion Proceedings of The 2019 World Wide Web Conference (WWW)* (San Francisco, CA, USA, 2019), 214–217.
- W8. Hui, P.-M., **Yang, K.-C.**, Torres-Lugo, C., Monroe, Z., McCarty, M., Serrette, B., Pentchev, V. & Menczer, F. BotSlayer: real-time detection of bot amplification on Twitter. *Journal of Open Source Software* **4**, 1706 (2019).

#### Under Review (with manuscript to share)

- R1. **Yang, K.-C.**<sup>‡</sup> & Menczer, F. Accuracy and political bias of news source credibility ratings by large language models. *Preprint arXiv:2304.00228* (2024).
- R2. Cresci, S., **Yang, K.-C.**, Spognardi, A., Di Pietro, R., Menczer, F. & Petrocchi, M. Demystifying misconceptions in social bots research. *Preprint arXiv:2303.17251* (2024).
- R3. Yan, H., Morrow, G., **Yang, K.-C.** & Wihbey, J. The Origin of Public Concerns Over AI-Supercharging Misinformation in the 2024 US Presidential Election. *In submission* (2024).
- R4. DeVerna, M. R., Yan, H., **Yang, K.-C.** & Menczer, F. Fact-checking information generated by a large language model can decrease news discernment. *Preprint arXiv:2308.10800* (2023).
- R5. Xue, L.<sup>†</sup>, **Yang, K.-C.**, Cui, P.-B. & Di, Z. Network localization strength regulates innovation diffusion with macro-level social influence. *Preprint arXiv: 2301.00151* (2023).

#### Book Chapters

- B1. **Yang, K.-C.**<sup>‡</sup>, Varol, O., Nwala, A. C., Sayyadiharikandeh, M., Ferrara, E., Flammini, A. & Menczer, F. *Forthcoming in Handbook of Computational Social Science* (ed Yasseri, T.) chap. Social Bots: Detection and Challenges (Edward Elgar Publishing Ltd, 2024).
- B2. Yan, H. & **Yang, K.-C.**<sup>‡</sup>. *Handbook of Critical Studies of Artificial Intelligence* (ed Lindgren, S.) chap. The landscape of social bot research: a critical appraisal. <https://doi.org/10.4337/9781803928562.00073> (Edward Elgar Publishing Ltd, 2023).

#### Other Works

- O1. Brown, M., Lukito, J. & **Yang, K.-C.** *What Does CrowdTangle's Demise Signal for Data Access Under the DSA?* Tech Policy Press (<https://www.techpolicy.press/what-does-crowdtangles-demise-signal-for-data-access-under-the-dsa>). 2024.
- O2. **Yang, K.-C.** *Social Media Bots: Detection, Characterization, and Human Perception* PhD thesis (Indiana University, 2023).
- O3. **Yang, K.-C.** & Menczer, F. *How many bots are on Twitter? The question is difficult to answer and misses the point* The Conversation (<https://theconversation.com/how-many-bots-are-on-twitter-the-question-is-difficult-to-answer-and-misses-the-point-183425>). 2022.

## TOOLS

### Observatory on Social Media (OSoMe)

- **Botometer**<sup>®</sup> [J7, C4, C5, J22]: bot detection tools handling ~ 250,000 daily requests from researchers, journalists, and social media users; used by Elon Musk's team in his dispute with Twitter (via **CNN**, **BBC**, and **Yahoo! Finance**)
- **BotAmp** [J7]: bot amplification level comparison
- **Midterm 2022 dashboard** [W2]: US 2022 midterm elections Twitter discussion
- **Hoaxy**<sup>®</sup>: visualization of information spreading online with tens of thousands of users
- **CoVaxxy** [W3]: dashboard for COVID-19 vaccine Twitter discussion

### Network Science

- **Persona2vec** (**GitHub**) [J18]: multi-role representations embedding for networks
- **BiRank** (**GitHub**, **PyPI**, **CRAN**) [W4]: bipartite network PageRank

### Others

- **vMFD** (**GitHub**, **PyPI**) [J3]: inferring moral appeals from text
- **Scicolor** (**GitHub**, **Online color picker**): color schemes for scientific visualization

## GRANTS

OpenAI Researcher Access Program (\$1,000 worth API credits). Role: PI. 2024  
 Northeastern University Staff development funds from Deans office. (\$1,000). Role: PI. 2024  
 Northeastern University Internet Democracy Initiative Seed Grant (\$5,000). Role: PI. 2024  
 Northeastern University Lab for Text, Maps & Networks seed grant (\$500). Role: PI. 2024  
**Civic Health Project** LLM Applications for Civic Health Grant, phase I (\$5,000). Role: Co-PI. 2024

## HONORS AWARDS

IU Distinguished Ph.D. Dissertation Award runner-up 2024  
 Selected for **Rising Scholars 2023**, MIT 2023  
 IU Informatics Luddy Graduate Research Award (\$500) 2023  
 IU Luddy Dean's Office Conference Travel Award (\$1,000) 2023  
 IU GISA Conference Travel Award (\$300) 2022  
 Best Reviewer Award at AAAI ICWSM 2022 2022  
 Selected for **Future Leaders Summit 2022**, University of Michigan 2022  
 IU Luddy Outstanding Research Award (\$500) 2021  
 IU School of Public Health Big Idea Challenge (\$250) 2020  
 IU Informatics Ph.D. Student Conference Travel Award (\$1,000) 2020  
 IU GISA Conference Travel Award (\$700) 2019  
 IU Informatics Ph.D. Student Conference Travel Award (\$1,000) 2019  
**NSF Research Trainee scholarship** in Complex Networks and Systems (\$5,000) 2018

## PRESENTATIONS Tutorials and Demos

- Exploring emerging social media: acquiring, processing, and visualizing data with Python and OSoMe web tools  
**IC<sup>2</sup>S<sup>2</sup> 2024** (Philadelphia, US) Jul. 2024
- Identifying social media manipulation with OSoMe tools  
*Computation + Journalism Conference – C+J 2022* (Virtual) Jun. 2022  
**IC<sup>2</sup>S<sup>2</sup> 2020** (Virtual) Jul. 2020
- Introduction to **Botometer**<sup>®</sup>  
*Visit by former Dominican Republic president Leonel Fernández* (Bloomington, US) 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, US)* Nov. 2021

## Talks

- Anatomy of AI-powered malicious social bots [J1]  
*IC<sup>2</sup>S<sup>2</sup> 2024 (Philadelphia, US)* Jul. 2024  
*ICWSM 2024 (Buffalo, US)* Jun. 2024  
*Communication Horizons Conference at UC Davis (Davis, US)* May 2024
- Fantastic bots and how to find them [J5, J7, J16, J17, W5, C4, C5, J22]  
*Invited talk at Intelligent and Computational Communication Salon, Beijing Normal University (Virtual)* Jul. 2024  
*Invited talk at Manning College of Information & Computer Sciences, University of Massachusetts Amherst (Amherst, US)* Nov. 2023  
*Invited talk at Yangtze Delta Region Institute (Huzhou), University of Electronic Science and Technology of China (Huzhou, China)* Aug. 2023  
*Invited talk at International Academic Center of Complex Systems, Beijing Normal University – Zhuhai (Zhuhai, China)* Jul. 2023  
*Invited talk at Summer Institutes in Computational Social Science 2023 – Beijing (Beijing, China)* Jul. 2023  
*Invited talk at New Media Research Center, Beijing Normal University (Beijing, China)* Jul. 2023  
*Invited talk at Social Computing Group, University of Zurich (Virtual)* Feb. 2023  
*Invited talk at Computational Methods Research Group, UW-Madison (Virtual)* Feb. 2023
- Accuracy and political bias of news source credibility ratings by large language models [R1]  
*IC<sup>2</sup>S<sup>2</sup> 2024 (Philadelphia, US)* Jul. 2024  
*Trust and Safety Research Conference (Palo Alto, US)* Aug. 2023
- Dissemination Patterns of Political Fact-Checks on Twitter  
*IC<sup>2</sup>S<sup>2</sup> 2024 (Philadelphia, US)* Jul. 2024
- Revealing localness of news domains through sharing patterns on social media  
*Annual Midwest Political Science Association Conference (Chicago, US)* Apr. 2024
- LLMs and cyber social threats: Good, bad, and ugly [R1, J1, R4]  
*Rising Scholars Conference at MIT (Cambridge, US)* Oct. 2023  
*Invited talk at Workshop on Applications of LLMs in Media (Beijing, China)* Jul. 2023  
*Invited talk at School of Journalism, Fudan University (Shanghai, China)* Jun. 2023
- Wrestling with the changing API of social media platforms: The case of Botometer  
*Post-API Conference (Philadelphia, US)* Oct. 2023
- Artificial intelligence is ineffective and potentially harmful for fact checking [R4]  
*Politics and Computational Social Science Conference (Los Angeles, US)* Aug. 2023
- The COVID-19 Infodemic: prevalence, adverse actors, and real-world impact [J11, J13, W5]  
*2022 INFORMS Annual Meeting (Indianapolis, US)* Oct. 2022  
*Invited talk at Computational Social Science Lab at Penn (Virtual)* Jun. 2022  
*Future Leaders Summit 2022 (Ann Arbor, US)* Apr. 2022
- The COVID-19 Infodemic: Twitter versus Facebook [J13]  
*Social Media Lab Guest Speaker Series (Virtual)* Oct. 2021  
*IC<sup>2</sup>S<sup>2</sup> 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 [J6]  
*IC<sup>2</sup>S<sup>2</sup> 2020 (Virtual)* Jul. 2020
- Prevalence of low-credibility information on Twitter during the COVID-19 outbreak [W5]  
*CySoc 2020 (Virtual)* Jun. 2020
- BotometerLite [C4]  
*IC<sup>2</sup>S<sup>2</sup> 2020 (Virtual)* Jul. 2020  
*AAAI 2020 (New York, US)* Feb. 2020
- Bot Electioneering Volume [W7]  
*CyberSafety 2019 (San Francisco, US)* May 2019

WORK  
EXPERIENCE

**US Senate Aging Committee**, remote  
Individual consultant on the use of AI for scamming Aug., Nov. 2023  
**Analysis Group**, MA, US  
Consultant for the trial of Elon Musk vs. Twitter Aug. 2022 – Oct. 2022  
**TikTok Inc. (ByteDance)**, CA, US  
Security engineering intern May 2021 – Aug. 2021

TEACHING  
EXPERIENCE

**Indiana University**, IN, US  
Guest lecturer, INFO-T100 Social Media Manipulation 101 Fall 2022  
Associate instructor, INFO-I590 Applied Data Science Fall 2017, Spring 2018

SERVICE

**Research Community Advocate for Open Access to Social Media Data:**

- Drafting open letters regarding **Twitter** and **Reddit**'s decisions to restrict data access
- Conducting **survey** to gauge the impact of data loss (**cited by court ruling** that dismissed Twitter/X's lawsuit against CCDH) and coordinating **mutual aids**
- Outreaching to news media to express concerns: **Reuters**, **The Verge**, **TechCrunch**, **CNN**, **Tech Policy Press**
- Conducting **DSA Data Access Audit**

**Guest Editor:** **EPJ Data Science: Special Issue on Computational Approaches for Cyber Social Threats**;

**Conference Organizer:** Publicity chair @ **18th International AAAI Conference on Web and Social Media (ICWSM24)**;

**Workshop Organizer:** **International Workshop on Cyber Social Threats 2024 (CySoc) @ ICWSM24**; **International Workshop on Cyber Social Threats 2023 (CySoc) @ WebConf23**; **International Workshop on Cyber Social Threats 2022 (CySoc) @ ICWSM22**;

**Journal Reviewer:**

- **Interdisciplinary:** PNAS (23); PNAS Nexus (23); Scientific Reports (22, 23); PLoS ONE (21-23); Royal Society Open Science (22); Journal of the Royal Society Interface (22);
- **Computer/information sciences:** Nature Machine Intelligence (23); ACM Computing Surveys (23); ACM Digital Threats: Research and Practice (21); ACM Transactions on Information Systems (23); AI and Ethics (24); Applied Network Science (24); Behaviour & Information Technology (23); Big Data & Society (21); Computers & Security (21); Computer networks (24); Decision Support Systems (22); EPJ Data Science (23); IEEE Internet Computing (21); IEEE Transactions on Knowledge and Data Engineering (21); IEEE Transactions on Network Science and Engineering (23); Transactions on Asian and Low-Resource Language Information Processing (24); Information Processing & Management (21, 24); International Journal of Data Science and Analytics (21); International Journal of

Human-Computer Interaction (22, 24); International Journal of Information Technology & Decision Making (21); Journal of Big Data (23, 24); Journal of Computational Social Science (22-24); Journal of Quantitative Description: Digital Media (24); Online Social Networks and Media (21, 22, 24); PeerJ Computer Science (20, 22, 24); Progress in Artificial Intelligence (23); Social Network Analysis and Mining (21-24); Social Science Computer Review (24);

- **Social sciences:** New Media & Society (23); HKS Misinformation Review (23, 24); Humanities & Social Sciences Communications (21-24); Technology in Society (24); Telematics and Informatics (23); Information, Communication and Society (21, 24); International Communication Gazette (21); Journal of Health Communication (23); Political Research Exchange (21); Public Understanding of Science (23); Socius (22);
- **Health:** Journal of Medical Internet Research (22, 23); BMC Digital Health (23); Drug and Alcohol Dependence (23); Frontiers in Public Health (22); JMIR Infodemiology (22, 23); JMIR Public Health and Surveillance (22);

**Conference Reviewer:** Complex Networks (23); CSCW (22, 23); CIKM (21-24); ICWSM (20-24); IC2S2 (24); WebSci (22-24); WebConf (22-24); Computation + Journalism Symposium (24);

#### IN THE PRESS

#### Selected Quotations and Interviews

- **AI and information integrity:** *Time* (Feb. 2024);
- **Social media in general:** *Reuters* (Nov. 2023); *Reuters* (Jul. 2023); *The Verge* (May 2023); *TechCrunch* (Feb. 2023); *CNN* (Feb. 2023); *Tech Policy Press* (Feb. 2023);
- **Social bots and other inauthentic actors on social media:** *NBC News* (Jul. 2024); *Sherwood News* (Jul. 2024); *Tortoise* (Feb. 2024); *Business Insider* (Aug. 2023); *WIRED* (Sep. 2022); *WIRED* (Sep. 2022); *BBC* (Aug. 2022); *Ars Technica* (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); *Spectrum News* (Apr. 2022);
- **Online misinformation:** *WISH-TV* (Sep. 2022); *IEEE Spectrum* (Jul. 2020);

#### Selected Media Coverage of My Works

- **AI-powered inauthentic social media accounts [J1, J2]:** *MIT Technology Review* (Mar. 2024); *IEEE Spectrum* (Feb. 2024); *PolitiFact* (Dec. 2023); *Publico* (Dec. 2023); *Wired* (Oct. 2023); *Business Insider* (Aug. 2023); *Breitbart* (Aug. 2023); *New York Post* (Aug. 2023); *Wired* (Aug. 2023); *Mashable* (Aug. 2023); *Business Insider* (Aug. 2023); *MIT Technology Review* (Aug. 2023); *Tech Policy Press* (Aug. 2023);
- **Botometer® [C5, J22] & BotAmp:** *Forbes* (Aug. 2023); *The Washington Post* (Jun. 2023); *Business Insider* (May 2023); *i* (May 2023); *The Hill* (May 2023); *Vice* (Apr. 2023); *PEN America* Mar. 2023; *ABC Action News* (Jan. 2023); *Poder360* (Jan. 2023); *Newsweek* (Dec. 2022); *Business Insider* (Nov. 2022); *The Daily Star* (Nov. 2022); *USA Today* (Oct. 2022); *Daily Maverick* (Oct. 2022); *CNN* (Oct. 2022); *The Washington Times* (Sep. 2022); *The Economic Times* (Sep. 2022); *CNN* (Sep. 2022); *Quotidiano Nazionale* (Aug. 2022); *The Guardian* (Aug. 2022); *The National Interest* (Aug. 2022); *The Verge* (Aug. 2022); *Yahoo! Finance* (Aug. 2022); *CNN* (Aug. 2022); *CNBC* (Aug. 2022); *Washington Examiner* (Aug. 2022); *Engadget* (Aug. 2022); *The Washington Post* (Aug. 2022); *The New York Times* (Aug. 2022); *Inc. Magazine* (Aug. 2022); *Newsweek* (Aug. 2022); *Snopes* (Jul. 2022); *USA Today* (Jun. 2022); *Slate* (Jun. 2022); *Forbes* (Jun. 2022); *Wired* (May 2022); *The Washington Post* (May 2022); *Los Angeles Times* (Apr. 2022);
- **CoVaxxy [W3]:** *AP News* (Oct. 2023); *Washington Examiner* (Jun. 2023); *The New York Times* (May 2022); *AP News* (Dec. 2021); *USA Today* (Mar. 2021);



- **Online misinformation is linked to early COVID-19 vaccination hesitancy and refusal [J11]:** *ilpost* (Nov. 2023); *The Hill* (Feb. 2023); *Global Citizen* (Aug. 2022); *Medical News Today* (Aug. 2022); *Time* (May 2022); *News-Medical* (May 2022); *Tech Policy Press* (Apr. 2022); *Slate* (Apr. 2022);
- **Neutral bots probe political bias on social media [J16]:** *The Hill* (Feb. 2023); *NBC News* (Apr. 2022); *Metro* (Apr. 2022); *Rolling Stone* (Apr. 2022);
- **COVID-19 Infodemic on Twitter and Facebook [J13]:** *News 5* (Jan. 2022); *The Conversation* (Jul. 2021);
- **Hoaxy<sup>®</sup>:** *MakeUseOf* (Jan. 2023); *MIT Technology Review* (Dec. 2022); *Media Matters for America* (Dec. 2022); *The Conversation* (Oct. 2022); *Bloomberg* (Nov. 2020); *NBC News* (Feb. 2020);
- **The spread of low-credibility content by social bots [J25]:** *The Conversation* (May 2024); *ABC* (Mar. 2024); *Scientific American* (Feb. 2024); *Salon* (Sep. 2020); *ScienceNews* (Nov. 2018); *MIT Technology Review* (Aug. 2017);

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