## Kai-Cheng Yang

CONTACT Information School of Computing Binghamton University 4400 Vestal Parkway East

Binghamton, NY 13902, US

yang3kc@gmail.com kaichengyang.me Google Scholar

# **Affiliations**

APPOINTMENTS Binghamton University, Binghamton, NY

Assistant Professor, School of Computing

Aug. 2025 -

Northeastern University, MA, US

Postdoctoral Research Associate, Network Science Institute Aug. 2023 - Aug. 2025

**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 Interests

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

- Generative AI in online platforms: creating fake accounts [J4, J5]; AI systems as information curators [R1, C1]; combating misinformation [C3, J6]; public perception [J3]
- Classic social media bot: detection (Botometer®) [J10, C5, C6, J25]; characterization [J12, W7]; human perception [J8, J20];
- Misinformation: prevalence [J7, J16, W5]; dissemination [J28]; real-world impact [J14];

### **Past Projects**

- US opioid epidemic: intervention policy evaluation [J18]; high-risk patients [J9, J13, J26]; impact of COVID-19 [17];
- Network science: embedding [J21–J23]; spreading phenomenon [R4, J27, J29];

### **Publications** GOOGLE SCHOLAR

‡: as corresponding author; †: mentored student **Journal Articles** 

- J1. Yang, K.-C.<sup>‡</sup>, Goel, P., Quintana-Mathé, A., Horgan, L., McCabe, S. D., Grinberg, N., Joseph, K. & Lazer, D. DomainDemo: a dataset of domain-sharing activities among different demographic groups on Twitter. Scientific Data 12, 1251 (2025).
- J2. 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 Message Features from Texts: A Case Study of Moral Content. *Political Analysis*, 1–21 (2025).
- J3. Yan, H., Morrow, G., Yang, K.-C. & Wihbey, J. The origin of public concerns over AI supercharging misinformation in the 2024 U.S. presidential election. The Harvard Kennedy School (HKS) Misinformation Review 6 (2025).
- J4. Yang, K.-C.<sup>‡</sup> & Menczer, F. Anatomy of an AI-powered malicious social botnet. *Journal* of Quantitative Description: Digital Media 4 (2024).
- J5. Yang, K.-C.<sup>‡</sup>, Singh, D.<sup>†</sup> & Menczer, F. Characteristics and prevalence of fake social media profiles with AI-generated faces. Journal of Online Trust and Safety 2 (2024).

- J6. DeVerna, M. R., Yan, H., Yang, K.-C. & Menczer, F. Fact-checking information from large language models can decrease headline discernment. *Proceedings of the National Academy of Sciences* **121**, e2322823121 (2024).
- J7. 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).
- J8. Yan, H., Yang, K.-C., Shanahan, J. & Menczer, F. Exposure to social bots amplifies perceptual biases and regulation propensity. *Scientific Reports* **13**, 20707 (2023).
- J9. 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).
- J10. 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).
- J11. 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).
- J12. 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).
- J13. 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).
- J14. 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).
- J15. 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).
- J16. 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).
- J17. 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).
- J18. 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).
- J19. Wen, C., Pacheco, D., Yang, K.-C. & Menczer, F. Neutral bots probe political bias on social media. *Nature Communications* **12**, 5580 (2021).
- J20. Yan, H., **Yang, K.-C.**, Menczer, F. & Shanahan, J. Asymmetrical Perceptions of Partisan Political Bots. *New Media & Society* **23**, 3016–3037 (2021).
- J21. 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).
- J22. Zhang, Y.-J., **Yang, K.-C.** & Radicchi, F. Model-free hidden geometry of complex networks. *Physical Reviews E* **103**, 012305 (2021).

- J23. Zhang, Y.-J., Yang, K.-C. & Radicchi, F. Systematic comparison of graph embedding methods in practical tasks. *Physical Reviews E* **104**, 044315 (2021).
- J24. 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).
- J25. 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).
- J26. 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).
- J27. 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).
- J28. 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).
- J29. **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. Yang, K.-C.<sup>‡</sup> & Menczer, F. Accuracy and Political Bias of News Source Credibility Ratings by Large Language Models in Proceedings of the 17th ACM Web Science Conference (WebSci) (New Brunswick, NJ, USA, 2025), 127–137.
- 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 in Proceedings of the International AAAI Conference on Web and Social Media (ICWSM) 19 (Copenhagen, Denmark, 2025), 1771–1785.
- C3. Alexander, J. H.<sup>†</sup>, Nanda, P. H., **Yang, K.-C.** & Sarvghad, A. Can GPT-4 Models Detect Misleading Visualizations? in 2024 IEEE Visualization and Visual Analytics (VIS) (2024), 106–110.
- C4. 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.
- C5. 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.
- C6. 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.†, Manikonda, A.†, Pierri, F., Menczer, F. & Yang, K.-C.‡. 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 manuscripts to share)

- R1. **Yang, K.-C.**<sup>‡</sup>. News Source Citing Patterns in AI Search Systems. *Preprint arXiv*:2507.05301 (2025).
- R2. Mimizuka, K., Brown, M. A., Yang, K.-C. & Lukito, J. Post-Post-API Age: Studying Digital Platforms in Scant Data Access Times. *Preprint arXiv:2505.09877* (2025).
- R3. 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).
- R4. 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/whatdoes-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, July 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 AI and Information Ecosystem

• LLM Domain Classification Dashboard [C1]: evaluate LLMs' ability to recognize and classify news domains

### Observatory on Social Media (OSoMe)

- Botometer<sup>®</sup> [J10, C5, C6, J25]: bot detection tools; used by Elon Musk's team in his dispute with Twitter (via CNN, BBC, and Yahoo! Finance)
- Midterm 2022 dashboard [W2]: US 2022 midterm elections Twitter discussion (no longer maintained)
- Hoaxy<sup>®</sup>: visualization of information spreading online (no longer maintained)
- CoVaxxy [W3]: dashboard for COVID-19 vaccine Twitter discussion (no longer maintained)

### **Network Science**

- Persona2vec (GitHub) [J21]: multi-role representations embedding for networks
- BiRank (GitHub, PyPI, CRAN) [W4]: bipartite network PageRank

### **Others**

- DomainDemo (Website, GitHub) [J1]: explore audience demographics of 129k+ domains
- vMFD (GitHub, PyPI) [J2]: inferring moral appeals from text
- Scicolor (Website, GitHub): color schemes for scientific visualization

# Grants Institute for Humane Studies Grant (\$5,000). Role: Co-PI. 2024 OpenAI Researcher Access Program (\$1,000 worth of 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	ICWSM 2025 Best Paper Honorable Mention	2025
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)  NSF Research Trainee scholarship in Complex Networks and Systems (\$5,000)	2019 2018	
Presentations	Tutorials and Demos		
	Beyond APIs: Collecting Web Data for Research using the National Internet O	bservatory	
	ICA 2025 (Denver, US)	Jun. 2025	
	WebSci 2025 (New Brunswick, US)	May. 2025	
	<ul> <li>Exploring emerging social media: acquiring, processing, and visualizing data w</li> </ul>	•	
	and OSoMe web tools	•	
	IC <sup>2</sup> S <sup>2</sup> 2024 (Philadelphia, US)	Jul. 2024	
	<ul> <li>Identifying social media manipulation with OSoMe tools</li> </ul>		
	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, 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		
	• AI transforming the information ecosystem: the good, the bad, and the ugly [Invited talk at the Impact of AI on (Mis)Information workshop at UPenn (Philadelphi	hop at UPenn (Philadelphia, PA, US)	
	Limited talk at the Limited and Data Cairman aminen for the Data Limited Lab. Toward	Apr. 2025	
	Invited talk at the Institute of Data Science seminar for the Data Justice Lab, Texas A& Station, TX, US)	Jan. 2025	
	<ul> <li>Accuracy and political bias of news source credibility ratings by large langered langered</li></ul>	uage mod-	
	WebSci 2025 (New Brunswick, US)	May. 2025	
	NULab Spring Conference 2025 (Boston, US)	Apr. 2025	
	IC <sup>2</sup> S <sup>2</sup> 2024 (Philadelphia, PA, US)	Jul. 2024	
	Trust and Safety Research Conference 2023 (Palo Alto, CA, US)	Aug. 2023	
	• Characteristics and prevalence of fake social media profiles with AI-generated	-	
	Trust and Safety Research Conference 2024 (Palo Alto, CA, US)	Aug. 2024	
	<ul> <li>Anatomy of AI-powered malicious social bots [J4]</li> </ul>		
	IC <sup>2</sup> S <sup>2</sup> 2024 (Philadelphia, PA, US)	Jul. 2024	
	ICWSM 2024 (Buffalo, NY, US)	Jun. 2024	
	Communication Horizons Conference at UC Davis (Davis, CA, US)	May 2024	
	<ul> <li>Fantastic bots and how to find them [J8, J10, J19, J20, W5, C5, C6, J25]</li> </ul>		
	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 Ma		
	Amherst (Amherst, MA, US)	Nov. 2023	
	Invited talk at Yangtze Delta Region Institute (Huzhou), University of Electronic		
	Technology of China (Huzhou, China)	Aug. 2023	
	Invited talk at International Academic Center of Complex Systems, Beijing Normal U		
	Zhuhai (Zhuhai, China)	Jul. 2023	
	Invited talk at Summer Institutes in Computational Social Science 2023 – Beijing (Bei	jing, China)	

Jul. 2023

	Invited talk at New Media Research Center, Beijing Normal University	y (Beijing, China)
		Jul. 2023
	Invited talk at Social Computing Group, University of Zurich (Virtual	
	Invited talk at Computational Methods Research Group, UW-Madison	
	Dissemination Patterns of Political Fact-Checks on Twitter	(
	$IC^2S^2$ 2024 (Philadelphia, PA, US)	Jul. 2024
	Revealing localness of news domains through sharing patterns of the state of t	
	Computation + Journalism Conference – C+J 2024 (Boston, MA, US)	Oct. 2024
	Annual Midwest Political Science Association Conference (Chicago, II	
	• LLMs and cyber social threats: Good, bad, and ugly [C1, J4, J6]	, ,
	Rising Scholars Conference at MIT (Cambridge, MA, US)	Oct. 2023
	Invited talk at Workshop on Applications of LLMs in Media (Beijing,	
	Invited talk at School of Journalism, Fudan University (Shanghai, Chi	
	• Wrestling with the changing API of social media platforms: The	case of Botometer
	Post-API Conference (Philadelphia, PA, US)	Oct. 2023
	• Artificial intelligence is ineffective and potentially harmful for fa	ict checking [ <mark>J6</mark> ]
	Politics and Computational Social Science Conference (Los Angeles, C.	A, US) Aug. 2023
	• The COVID-19 Infodemic: prevalence, adverse actors, and real	l-world impact [J14, J16,
	W5] 2022 INFORMS Annual Meeting (Indianapolis, IN, US)	Oct. 2022
	Invited talk at Computational Social Science Lab at Penn (Virtual)	Jun. 2022
	Future Leaders Summit 2022 (Ann Arbor, MI, US)	Apr. 2022
	• The COVID-19 Infodemic: Twitter versus Facebook [J16]	Apr. 2022
	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 (	
	Bipartite network centrality comparison: A study of opioid doct	
	$IC^2S^2$ 2020 (Virtual)	Jul. 2020
	• Prevalence of low-credibility information on Twitter during the C	· · · · · · · · · · · · · · · · · · ·
	CySoc 2020 (Virtual)	Jun. 2020
	BotometerLite [C5]	•
	$IC^2S^2$ 2020 (Virtual)	Jul. 2020
	AAAI 2020 (New York, NY, US)	Feb. 2020
	• Bot Electioneering Volume [W7]	
	CyberSafety 2019 (San Francisco, CA, US)	May 2019
Work	Analysis Group, MA, US	
EXPERIENCE	Consultant for the trial of Elon Musk vs. Twitter	Aug. 2022 – Oct. 2022
EXIENCE		Aug. 2022 – Oct. 2022
	TikTok Inc. (ByteDance), CA, US	N. 2021 A 2021
	Security engineering intern	May 2021 – Aug. 2021
Геасніng	Binghamton University, NY, US	
EXPERIENCE	CS-415 Social Media Data Sci Pipeline	Fall 2025
	Indiana University, IN, US	
	INFO-T100 Social Media Manipulation 101 (guest lecturer)	Fall 2022
	INFO-I590 Applied Data Science (associate instructor)	Fall 2017, Spring 2018
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### 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 [R2] (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

Editorial Board Member: Information Processing & Management (25);

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

**Conference Organizer**: Tutorial chair @ ICWSM26; Publicity chair @ ICWSM24; Workshop Organizer:

International Workshop on Cyber Social Threats: CySoc 2025 @ ICWSM25; CySoc 2024 @ ICWSM24; CySoc 2023 @ WebConf23; CySoc 2022 @ ICWSM22;

### Journal Reviewer:

- Interdisciplinary: Science (25); Nature Computational Science (25); Nature Communications (25); Nature Human Behaviour (24); PNAS (23-25); PNAS Nexus (23); Scientific Reports (22, 23, 25); PLoS ONE (21-24); Royal Society Open Science (22); Journal of the Royal Society Interface (22);
- Computer/information sciences, data mining: Nature Machine Intelligence (23, 24); ACM Computing Surveys (23); ACM Digital Threats: Research and Practice (21); ACM Transactions on Information Systems (23); ACM Transactions on Intelligent Systems and Technology (25); 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, 25); Expert Systems With Applications (25); 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 Fusion (25); Information Processing & Management (21, 24, 25); International Journal of Computational Intelligence Systems (25); 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 (21-25); PeerJ Computer Science (20, 22, 24); Progress in Artificial Intelligence (23); Social Network Analysis and Mining (21-24); Social Science Computer Review (24, 25);
- Social sciences: New Media & Society (23); HKS Misinformation Review (23, 24); Computational Communication Research (25); Communication Methods and Measures (24, 25); Humanities & Social Sciences Communications (21-24); Technology in Society (24); Telematics and Informatics (23); Information, Communication and Society (21, 24); International Communication Gazette (21); International Journal of Communication (25); Journal of Health Communication (23); Political Research Exchange (21); Public Understanding of Science (23); Socius (22);
- Health: Journal of Medical Internet Research (22-25); BMC Digital Health (23); Drug and Alcohol Dependence (23); Frontiers in Public Health (22); Health Policy and Technology (25); JMIR Infodemiology (22, 23); JMIR Public Health and Surveillance (22); Vaccine (25);
- Others: International Journal of Digital Earth (24); Physical Review E (24);

### **Conference Reviewer:**

Computer/information sciences, data mining: AAAI (24); CSCW (22, 23); CIKM (21-24);

- ICWSM (20-25); WWW (22-24); WebSci (22-25); FAccT (25);
- **Computational social science:**  $IC^2S^2$  (24, 25); Computation + Journalism Symposium (24); ICA (24);
- Network science: Complex Networks (23);

### In the press

### Selected Quotations and Interviews

- AI and information integrity: PolitiFact (Nov. 2024); NBC News (Oct. 2024); 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 as information curator [R1, C1]: Entrepreneur (Jul. 2025); Forbes (Nov. 2024); RStreet (Aug. 2023);
- AI-powered inauthentic social media accounts [J4, J5]: 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® [C6, J25] & BotAmp: Daily Finland (Oct. 2024); SVT Nyheter (Sep. 2024); 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); 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 [J7, W3]: Rolling Stone (Nov. 2024); AP News (Nov. 2024); 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 [J14]: 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 [J19]: The Hill (Feb. 2023); NBC News (Apr. 2022); Metro (Apr. 2022); Rolling Stone (Apr. 2022);

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