

# Kai-Cheng Yang

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APPOINTMENTS **Binghamton University**, Binghamton, NY  
AFFILIATIONS 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  
**B.S./M.S.**, Theoretical Physics, Lanzhou University, China Jun. 2017

PUBLICATIONS <sup>‡</sup>: as corresponding author; <sup>†</sup>: mentored student  
[GOOGLE SCHOLAR](#)  
**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. Cresci, S., **Yang, K.-C.**, Spognardi, A., Di Pietro, R., Menczer, F. & Petrocchi, M. Demystifying Misconceptions in Social Bots Research. *Social Science Computer Review* **0**, 08944393251376707 (2025).
- 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 Message Features from Texts: A Case Study of Moral Content. *Political Analysis*, 1–21 (2025).
- J4. 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).
- J5. **Yang, K.-C.**<sup>‡</sup> & Menczer, F. Anatomy of an AI-powered malicious social botnet. *Journal of Quantitative Description: Digital Media* **4** (2024).
- J6. **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).
- J7. 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).
- J8. 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).
- J9. Yan, H., **Yang, K.-C.**, Shanahan, J. & Menczer, F. Exposure to social bots amplifies perceptual biases and regulation propensity. *Scientific Reports* **13**, 20707 (2023).
- J10. **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).

- J11. **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).
- J12. **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).
- J13. 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).
- J14. 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).
- J15. 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).
- J16. **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).
- J17. **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).
- J18. 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).
- J19. 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).
- J20. Wen, C., Pacheco, D., **Yang, K.-C.** & Menczer, F. Neutral bots probe political bias on social media. *Nature Communications* **12**, 5580 (2021).
- J21. Yan, H., **Yang, K.-C.**, Menczer, F. & Shanahan, J. Asymmetrical Perceptions of Partisan Political Bots. *New Media & Society* **23**, 3016–3037 (2021).
- J22. 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).
- J23. Zhang, Y.-J., **Yang, K.-C.** & Radicchi, F. Model-free hidden geometry of complex networks. *Physical Reviews E* **103**, 012305 (2021).
- J24. Zhang, Y.-J., **Yang, K.-C.** & Radicchi, F. Systematic comparison of graph embedding methods in practical tasks. *Physical Reviews E* **104**, 044315 (2021).
- J25. 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).
- J26. **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).
- J27. 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).

- J28. 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).
- J29. 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).
- J30. **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.<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 manuscripts to share)

- R1. **Yang, K.-C.**<sup>‡</sup>. News Source Citing Patterns in AI Search Systems. *Preprint arXiv:2507.05301* (2025).
- R2. DeVerna, M. R., **Yang, K.-C.**, Yan, H. & Menczer, F. Large Language Models Require Curated Context for Reliable Political Fact-Checking – Even with Reasoning and Web Search. *Preprint arXiv:2511.18749* (2025).
- R3. 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).
- 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/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, 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® [J11, C5, C6, J26]: 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)
- CoVaxxy [W3]: dashboard for COVID-19 vaccine Twitter discussion (no longer maintained)

### **Network Science**

- Persona2vec ([GitHub](#)) [J22]: 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](#)) [J3]: 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
	<b>Civic Health Project</b> 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 <b>Rising Scholars 2023</b> , 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 <b>Future Leaders Summit 2022</b> , 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
	<b>NSF Research Trainee scholarship</b> in Complex Networks and Systems (\$5,000)	2018

### **PRESENTATIONS Tutorials and Demos**

- Beyond APIs: Collecting Web Data for Research using the National Internet Observatory  
*ICA 2025 (Denver, US)* Jun. 2025  
*WebSci 2025 (New Brunswick, US)* May. 2025
- 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

<i>Computation + Journalism Conference – C+J 2022 (Virtual)</i>	Jun. 2022
<i>IC<sup>2</sup>S<sup>2</sup> 2020 (Virtual)</i>	Jul. 2020
• Introduction to Botometer®	
<i>Visit by former Dominican Republic president Leonel Fernández (Bloomington, US)</i>	Apr. 2022
<i>Invited demo at the Learning Informatics Lab, University of Minnesota (Virtual)</i>	Mar. 2022
<i>Knight Research Network Tool Demonstration Day (Virtual)</i>	Oct. 2021
• Fast and flexible ranking on bipartite networks with Python and R	
<i>Indiana University Network Institute workshop series (Bloomington, US)</i>	Nov. 2021
<b>Talks</b>	
• New gatekeepers: news source citation patterns of AI-powered search [R1, C1]	
<i>Invited talk at the Binghamton Center of Complex Systems seminar (Binghamton, NY, US)</i>	Sep. 2025
• AI transforming the information ecosystem: the good, the bad, and the ugly [C1, J5–J7]	
<i>Invited talk at the Impact of AI on (Mis)Information workshop at UPenn (Philadelphia, PA, US)</i>	Apr. 2025
<i>Invited talk at the Institute of Data Science seminar for the Data Justice Lab, Texas A&amp;M (College Station, TX, US)</i>	Jan. 2025
• Accuracy and political bias of news source credibility ratings by large language models [C1]	
<i>WebSci 2025 (New Brunswick, US)</i>	May. 2025
<i>NULab Spring Conference 2025 (Boston, US)</i>	Apr. 2025
<i>IC<sup>2</sup>S<sup>2</sup> 2024 (Philadelphia, PA, US)</i>	Jul. 2024
<i>Trust and Safety Research Conference 2023 (Palo Alto, CA, US)</i>	Aug. 2023
• Characteristics and prevalence of fake social media profiles with AI-generated faces [J6]	
<i>Trust and Safety Research Conference 2024 (Palo Alto, CA, US)</i>	Aug. 2024
• Anatomy of AI-powered malicious social bots [J5]	
<i>IC<sup>2</sup>S<sup>2</sup> 2024 (Philadelphia, PA, US)</i>	Jul. 2024
<i>ICWSM 2024 (Buffalo, NY, US)</i>	Jun. 2024
<i>Communication Horizons Conference at UC Davis (Davis, CA, US)</i>	May 2024
• Fantastic bots and how to find them [J9, J11, J20, J21, W5, C5, C6, J26]	
<i>Invited talk at Intelligent and Computational Communication Salon, Beijing Normal University (Virtual)</i>	Jul. 2024
<i>Invited talk at Manning College of Information &amp; Computer Sciences, University of Massachusetts Amherst (Amherst, MA, US)</i>	Nov. 2023
<i>Invited talk at Yangtze Delta Region Institute (Huzhou), University of Electronic Science and Technology of China (Huzhou, China)</i>	Aug. 2023
<i>Invited talk at International Academic Center of Complex Systems, Beijing Normal University – Zhuhai (Zhuhai, China)</i>	Jul. 2023
<i>Invited talk at Summer Institutes in Computational Social Science 2023 – Beijing (Beijing, China)</i>	Jul. 2023
<i>Invited talk at New Media Research Center, Beijing Normal University (Beijing, China)</i>	Jul. 2023
<i>Invited talk at Social Computing Group, University of Zurich (Virtual)</i>	Feb. 2023
<i>Invited talk at Computational Methods Research Group, UW-Madison (Virtual)</i>	Feb. 2023
• Revealing localness of news domains through sharing patterns on social media	
<i>Computation + Journalism Conference – C+J 2024 (Boston, MA, US)</i>	Oct. 2024
<i>Annual Midwest Political Science Association Conference (Chicago, IL, US)</i>	Apr. 2024
• LLMs and cyber social threats: Good, bad, and ugly [C1, J5, J7]	
<i>Rising Scholars Conference at MIT (Cambridge, MA, US)</i>	Oct. 2023
<i>Invited talk at Workshop on Applications of LLMs in Media (Beijing, China)</i>	Jul. 2023

<i>Invited talk at School of Journalism, Fudan University (Shanghai, China)</i>	Jun. 2023
• Wrestling with the changing API of social media platforms: The case of Botometer <i>Post-API Conference (Philadelphia, PA, US)</i>	Oct. 2023
• Artificial intelligence is ineffective and potentially harmful for fact checking [J7] <i>Politics and Computational Social Science Conference (Los Angeles, CA, US)</i>	Aug. 2023
• The COVID-19 Infodemic: prevalence, adverse actors, and real-world impact [J15, J17, W5]	
<i>2022 INFORMS Annual Meeting (Indianapolis, IN, US)</i>	Oct. 2022
<i>Invited talk at Computational Social Science Lab at Penn (Virtual)</i>	Jun. 2022
<i>Future Leaders Summit 2022 (Ann Arbor, MI, US)</i>	Apr. 2022
• The COVID-19 Infodemic: Twitter versus Facebook [J17]	
<i>Social Media Lab Guest Speaker Series (Virtual)</i>	Oct. 2021
<i>IC<sup>2</sup>S<sup>2</sup> 2021 (Virtual)</i>	Jul. 2021
<i>NetSci 2021 (Virtual)</i>	Jul. 2021
<i>Computation + Journalism Symposium – C+J 2021 (Virtual)</i>	Feb. 2021
<i>The 3rd North American Social Networks Conference – NASN 2021 (Virtual)</i>	Jan. 2021
• Bipartite network centrality comparison: A study of opioid doctor shopping [J10]	
<i>IC<sup>2</sup>S<sup>2</sup> 2020 (Virtual)</i>	Jul. 2020
• Prevalence of low-credibility information on Twitter during the COVID-19 outbreak [W5]	
<i>CySoc 2020 (Virtual)</i>	Jun. 2020
• BotometerLite [C5]	
<i>IC<sup>2</sup>S<sup>2</sup> 2020 (Virtual)</i>	Jul. 2020
<i>AAAI 2020 (New York, NY, US)</i>	Feb. 2020
• Bot Electioneering Volume [W7]	
<i>CyberSafety 2019 (San Francisco, CA, US)</i>	May 2019

**WORK EXPERIENCE**

<b>Analysis Group, MA, US</b>	
Consultant for the trial of Elon Musk vs. Twitter	Aug. 2022 – Oct. 2022
<b>TikTok Inc. (ByteDance), CA, US</b>	

<b>Binghamton University, NY, US</b>	
CS-415/515 Social Media Data Science Pipeline	Fall 2025

<b>Indiana University, IN, US</b>	
INFO-T100 Social Media Manipulation 101 (guest lecturer)	Fall 2022
INFO-I590 Applied Data Science (associate instructor)	Fall 2017, Spring 2018

**ADVISING**

**PhD students:**

- Xuanchi Li (Binghamton University) Fall 2025 –
- Smriti Janaswamy (Binghamton University) Fall 2025 –
- Claire Dekker (Binghamton University) Fall 2025 –

**PhD committees:**

- Fatemeh Tahmasbi (Binghamton University) Fall 2025 –

**PhD qualifying committees:**

- Hrudayangam Mehta (Binghamton University) Fall 2025 –

**Masters students:**

- Jay Desai (Binghamton University) Fall 2025
- Monish Kumar Dhanasekar (Binghamton University) Fall 2025

#### Other mentees

- |  |                       |
|--|-----------------------|
| • Yuhua Li (PhD, University of Michigan)               | Spring 2024 –         |
| • Jason Alexander Huang (Undergraduate, UMass Amherst) | Fall 2023 – Fall 2024 |
| • Priyal Nanda (Undergraduate, UMass Amherst)          | Fall 2023 – Fall 2024 |
| • Leyang Xue (PhD, Beijing Normal University)          | Summer 2022 –         |

#### 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 [R3] ([cited by court ruling](#) that dismissed Twitter/X's lawsuit against CCDH) and coordinating [mutual aids](#)
- Outreach 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); [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); [npj Artificial Intelligence](#) (25); [Online Social Networks and Media](#) (21–25); [PeerJ Computer Science](#) (20, 22, 24); [Progress in Artificial Intelligence](#) (23); [Transactions on Asian and Low-Resource Language Information Processing](#) (24); [Social Network Analysis and Mining](#) (21–24); [Social Science Computer Review](#) (24, 25);
- **Social sciences:** [New Media & Society](#) (23); [HKS Misinformation Review](#) (23–25); [Computational Communication Research](#) (25); [Communication Methods and Measures](#) (24, 25); [Humanities & Social Sciences Communications](#) (21–25); [Technology in Society](#) (24); [Telematics and Informatics](#) (23); [Information, Communication and Society](#) (21, 24); [In-](#)

ternational Communication Gazette (21); International Journal of Communication (25); Journal of Health Communication (23); Political Research Exchange (21); Public Understanding of Science (23); Socius (22); Social Science Computer Review (25);

- **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, 25); CSCW (22, 23); CIKM (21–24); ICWSM (20–25); WWW (22–25); WebSci (22–25); FAccT (25); iConference (25);
- **Computational social science:** IC<sup>2</sup>S<sup>2</sup> (24, 25); Computation + Journalism Symposium (24); ICA (24);
- **Network science:** Complex Networks (23);

#### IN THE PRESS

#### Selected Quotations and Interviews

- **AI and information ecosystem:** *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);

#### 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 [J5, J6]:** *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, J26] & 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); *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 [J8, 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);
- **Neutral bots probe political bias on social media [J20]:** *The Hill* (Feb. 2023); *NBC News*

(Apr. 2022); *Metro* (Apr. 2022); *Rolling Stone* (Apr. 2022);

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