

# 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
APPOINTMENTS	<b>Binghamton University</b> , Binghamton, NY	
AFFILIATIONS	Assistant Professor, School of Computing <b>Northeastern University</b> , MA, US Postdoctoral Research Associate, Network Science Institute	Aug. 2025 – Aug. 2023 – Aug. 2025
EDUCATION	<b>Ph.D.</b> , Informatics, Indiana University, IN, US (Dissertation [ <a href="#">O2</a> ]) <b>B.S./M.S.</b> , Theoretical Physics, Lanzhou University, China	Jun. 2023 Jun. 2017
PUBLICATIONS <a href="#">GOOGLE SCHOLAR</a>	‡: as corresponding author; †: mentored student <b>Journal Articles</b>	<ul style="list-style-type: none"><li>J1. Xue, L.<sup>†</sup>, <b>Yang, K.-C.</b>, Cui, P.-B. &amp; Di, Z. Network localization governs social contagion dynamics with macro-level reinforcement. <i>Physical Review Research</i> <b>8</b>, 013062 (2026).</li><li>J2. <b>Yang, K.-C.</b>‡, Goel, P., Quintana-Mathé, A., Horgan, L., McCabe, S. D., Grinberg, N., Joseph, K. &amp; Lazer, D. DomainDemo: a dataset of domain-sharing activities among different demographic groups on Twitter. <i>Scientific Data</i> <b>12</b>, 1251 (2025).</li><li>J3. Cresci, S., <b>Yang, K.-C.</b>, Spognardi, A., Di Pietro, R., Menczer, F. &amp; Petrocchi, M. Demystifying Misconceptions in Social Bots Research. <i>Social Science Computer Review</i> <b>0</b>, 08944393251376707 (2025).</li><li>J4. Duan, Z., Shao, A., Hu, Y., Lee, H., Liao, X., Suh, Y. J., Kim, J., <b>Yang, K.-C.</b>, Chen, K. &amp; Yang, S. Constructing Vec-tionaries to Extract Message Features from Texts: A Case Study of Moral Content. <i>Political Analysis</i>, 1–21 (2025).</li><li>J5. Yan, H., Morrow, G., <b>Yang, K.-C.</b> &amp; Wihbey, J. The origin of public concerns over AI supercharging misinformation in the 2024 U.S. presidential election. <i>The Harvard Kennedy School (HKS) Misinformation Review</i> <b>6</b> (2025).</li><li>J6. <b>Yang, K.-C.</b>‡ &amp; Menczer, F. Anatomy of an AI-powered malicious social botnet. <i>Journal of Quantitative Description: Digital Media</i> <b>4</b> (2024).</li><li>J7. <b>Yang, K.-C.</b>‡, Singh, D.<sup>†</sup> &amp; Menczer, F. Characteristics and prevalence of fake social media profiles with AI-generated faces. <i>Journal of Online Trust and Safety</i> <b>2</b> (2024).</li><li>J8. DeVerna, M. R., Yan, H., <b>Yang, K.-C.</b> &amp; Menczer, F. Fact-checking information from large language models can decrease headline discernment. <i>Proceedings of the National Academy of Sciences</i> <b>121</b>, e2322823121 (2024).</li><li>J9. Pierri, F., DeVerna, M. R., <b>Yang, K.-C.</b>, Axelrod, D., Bryden, J. &amp; Menczer, F. One Year of COVID-19 Vaccine Misinformation on Twitter: Longitudinal Study. <i>Journal of Medical Internet Research</i> <b>25</b>, e42227 (2023).</li><li>J10. Yan, H., <b>Yang, K.-C.</b>, Shanahan, J. &amp; Menczer, F. Exposure to social bots amplifies perceptual biases and regulation propensity. <i>Scientific Reports</i> <b>13</b>, 20707 (2023).</li></ul>

- J11. 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).
- J12. 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).
- J13. Yang, K.-C.‡, Hui, P.-M. & Menczer, F. How Twitter data sampling biases U.S. voter behavior characterizations. *PeerJ Computer Science* **8**, e1025 (2022).
- J14. 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).
- J15. 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).
- J16. 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).
- J17. 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).
- J18. 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).
- J19. 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).
- J20. 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).
- J21. Wen, C., Pacheco, D., Yang, K.-C. & Menczer, F. Neutral bots probe political bias on social media. *Nature Communications* **12**, 5580 (2021).
- J22. Yan, H., Yang, K.-C., Menczer, F. & Shanahan, J. Asymmetrical Perceptions of Partisan Political Bots. *New Media & Society* **23**, 3016–3037 (2021).
- J23. 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).
- J24. Zhang, Y.-J., Yang, K.-C. & Radicchi, F. Model-free hidden geometry of complex networks. *Physical Reviews E* **103**, 012305 (2021).
- J25. Zhang, Y.-J., Yang, K.-C. & Radicchi, F. Systematic comparison of graph embedding methods in practical tasks. *Physical Reviews E* **104**, 044315 (2021).
- J26. 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).
- J27. 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).

- J28. 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).
- J29. 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).
- J30. 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).
- J31. **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.**‡, 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.**‡, 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.**‡. 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).

#### **Book Chapters**

- B1. **Yang, K.-C.**‡, 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.**‡. *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® [J12, C5, C6, J27]: 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](#)) [J23]: multi-role representations embedding for networks
- BiRank ([GitHub](#), [PyPI](#), [CRAN](#)) [W4]: bipartite network PageRank

### **Others**

- DomainDemo ([Website](#), [GitHub](#)) [J2]: explore audience demographics of 129k+ domains
- vMFD ([GitHub](#), [PyPI](#)) [J4]: 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, J6–J8]	
<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 [J7]	
<i>Trust and Safety Research Conference 2024 (Palo Alto, CA, US)</i>	Aug. 2024
• Anatomy of AI-powered malicious social bots [J6]	
<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 [J10, J12, J21, J22, W5, C5, C6, J27]	
<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, J6, J8]	
<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 [J8] <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 [J16, J18, 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 [J18] <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 [J11] <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</b> , MA, US	
	Consultant for the trial of Elon Musk vs. Twitter	Aug. 2022 – Oct. 2022
	<b>TikTok Inc. (ByteDance)</b> , CA, US	
	Security engineering intern	May 2021 – Aug. 2021
TEACHING EXPERIENCE	<b>Binghamton University</b> , NY, US	
	CS-481E/581E AI and Society	Spring 2026
	CS-415/515 Social Media Data Science Pipeline	Fall 2025
	<b>Indiana University</b> , IN, US	
	INFO-T100 Social Media Manipulation 101 (guest lecturer)	Fall 2022
	INFO-I590 Applied Data Science (associate instructor)	Fall 2017, Spring 2018
ADVISING	<b>PhD students:</b>	
	• Xuanchi Li (Binghamton University)	Fall 2025 –
	• Smriti Janaswamy (Binghamton University)	Fall 2025 –
	• Claire Dekker (Binghamton University)	Fall 2025 –
	<b>PhD committees:</b>	
	• Fatemeh Tahmasbi (Binghamton University)	Fall 2025 –
	<b>PhD qualifying committees:</b>	
	• Shuai Yang (Binghamton University)	Spring 2026

- Hrudayangam Mehta (Binghamton University) Fall 2025

**Masters students:**

- Monish Kumar Dhanasekar (Binghamton University) Fall 2025 – Spring 2026
- Jay Desai (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 – Fall 2025

**SERVICE**

**Editorial Board Member:** Information Processing & Management (25, 26);

**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); 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); 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 [J6, J7]:** 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, J27] & 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 [J9, 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 [J21]:** The Hill (Feb. 2023); NBC News (Apr. 2022); Metro (Apr. 2022); Rolling Stone (Apr. 2022);