INDIANA UNIVERSITY

OBSERVATORY ON SOCIAL MEDIA

ANNUAL REPORT 2024-2025

Dear Friends and Supporters,

We are excited to share this annual report about activities at the Observatory on Social Media during the 2024-2025 academic year. It has been a year of challenges and opportunities.

The changing federal funding landscape for research in general, and research on information integrity in particular, has been a major challenge. We had two grants discontinued, but fortunately they were close to their normal end dates and therefore we were able to mitigate the negative impacts. We feel fortunate compared to colleagues, both at IU and other institutions, who lost entire grants, causing more significant research interruptions. Another challenge originates from changing US visa policies, which are making it increasingly difficult to recruit top international researchers.

On the opportunities side, we are incredibly grateful to the Knight Foundation for strengthening its commitment to research on digital media and democracy through the Knight Research Network. Their renewed support of OSoMe, along with other active grants, will enable us to continue pursuing our mission to study the socio-technical networks that drive the diffusion of information, uncover the vulnerabilities of the media ecosystem, and develop methods to increase the resilience of citizens and democratic systems to manipulation.

OSoMe research continues to be robust and impactful, as outlined in this report. Our faculty affiliates, researchers, and graduate students are working on exciting problems, with increasing focus on the role of generative AI – both when it is exploited for manipulation at scale, and as part of solutions and tools to counter such abuse and promote a healthier information environment. And our technical staff is helping make new tools that stem from this research available to the public at large.

We are grateful to all of OSoMe faculty, researchers, students, staff, and supporters for doing amazing work!

Fil Menczer, Faculty Director

Caitlin Watkins, Executive Director

Faculty Updates

Departures

This year brought several transitions for OSoMe, with two valued colleagues moving on to new opportunities.

Yong-Yeol (YY) Ahn concluded his time with OSoMe this year. He is now a Quantitative Foundation Distinguished Professor at the University of Virginia's School of Data Science. YY was a core member of OSoMe and a Professor at Indiana University from 2011-2025. His research spans data science, network science, machine learning, and AI, with applications across computational social science, computational neuroscience and biology, and the science of science. He is a recipient of many awards, including the Microsoft Research Faculty Fellowship and the LinkedIn Economic Graph Challenge. YY's methodological and applied work on the hidden architectures of complex systems and information diffusion has been foundational to OSoMe's mission; we are deeply grateful for his leadership, mentorship, and many contributions.

Filipi Nascimento Silva also departed the center this year. Filipi joined OSoMe after four years as an Assistant Research Scientist at the IU Network Science Institute. His research spans bioinformatics, the science of science, and information science, with a methodological emphasis on complex networks, machine learning, and data visualization. During his time at OSoMe, Filipi made significant contributions to both research and infrastructure, including the development of a real-time, web-based framework for dynamic network visualization that strengthened several of our analytical tools. His innovative work and collaborative spirit have been key assets for the Observatory. We will miss Filipi (and the pão de queijo he'd bring to every potluck) and wish him continued success in his new role as a Research Assistant Professor at Northwestern University.

New Faculty Affiliates

We also welcomed two new faculty members whose expertise broadens and strengthens OSoMe's interdisciplinary scope.

Kristina Lerman joined OSoMe as a Professor of Informatics at the Luddy School of

Informatics, Computing, and Engineering. Trained as a physicist, her work applies network analysis and machine learning to problems in computational social science, including social network analysis and the dynamics of social media platforms. Her research examines the intersection of technology and society, focusing on how social media and AI shape individual and collective behavior. Kristina's work has been influential in explaining how information spreads online, how platform design and social networks affect what people see and know, and how cognitive biases operate in digital environments.

Taeyoung Lee joined the Media School faculty in 2025 and brings deep expertise in

journalism and political communication. Her scholarship focuses on how mediated political communication affects democratic outcomes, with a particular emphasis on misinformation and disinformation. Taeyoung's work has appeared in leading journals including *Information, Communication & Society, International Journal of Press/Politics, Journalism & Mass Communication Quarterly, Mass Communication and Society,* and *New Media & Society*. Her research has been recognized with awards such as the AEJMC Research Prize for Professional Relevance and the Mass Communication Division's research award. She received her MA degree from the IU Media School in 2018. Prior to academia, she worked as a journalist at a national newspaper in South Korea, where her reporting received national recognition. We are excited to welcome Taeyoung and look forward to her contributions to OSoMe's research and training.

Exploring the Impacts of Social Media: Two Forthcoming Books

James Shanahan is co-authoring two books on social media. One is *Lessons from 50 Years of Fears about Youth and Media*. The book is co-authored with Marco Gui, a professor of sociology at Università degli Studi di Milano Bicocca. It compares current worries about social media to the debates about TV violence that occurred in the 1970s. The book will be published by Palgrave. Also, with several co-authors, he is working on *Always Online Posting, Sharing, and Communicating: The Effects of Social Media on Individuals and Society.* The text will cover current research on media effects in the online world. The book is to be published by Routledge. Both are due in 2026.

Honors and Milestones

Filippo Menczer was elected to the 2024 class of Fellows of the American Association for the Advancement of Science (AAAS). He is among 471 scientists, engineers, and innovators recognized this year for their scientifically and socially distinguished achievements. Fil was cited by the AAAS "for seminal contributions to web and data science, network science, computational social science, social media analytics, science of science, and modeling of complex information systems."

In celebration of his 60th birthday and his remarkable impact on the field, the Center for Complex Networks and Systems Research hosted a mini-conference, *Agents of Influence: 60 Years of Connections,* which brought alumni, collaborators, and colleagues back to Indiana University to honor Fil's decades of leadership, mentorship, and scholarship.

Graduations

Several members of the OSoMe team completed major academic milestones. We congratulate them on their achievements and look forward to seeing the impact of their future work.

Rachith Aiyappa defended his PhD dissertation titled *Towards Empirically Validated Models of Cogno-Social Belief Dynamics.* His research includes modeling the spread of beliefs and behavior on social networks and building pipelines using large language models to extract beliefs from social media and validate models of belief dynamics. He is also interested in simulating artificial agents using LLMs and, in particular, measuring the (mis)alignment between interactions among artificial agents and among humans. Rachith is now an Applied Researcher working on query understanding at eBay.

Matthew DeVerna completed his PhD with the dissertation *Social Media Misinformation: Spread, Impact, and Fact-Checking with Large Language Models*. His work examines the dynamics and consequences of misinformation on social media, using novel methods to identify "superspreaders" and reconstruct information diffusion cascades. Matt's findings highlight the societal impacts of misinformation and evaluate the potential of large language models for fact-checking. Matt is now a Postdoctoral Researcher at the Tech Impact and Policy Center at Stanford University.

Pasan Kamburugamuwa is an Application Developer at OSoMe. He recently earned his M.S. in Data Science from Indiana University with a concentration in Intelligent Systems Engineering, focusing on cloud computing, high-performance computing, and deep learning systems. At OSoMe, he develops and maintains applications that support large-scale social media data analysis and visualization.

Kevin Mudavadi completed his PhD with the dissertation *Navigating the Winds of Change: Forces Shaping Journalistic Role Conception in Kenya*. He investigates how media audiences and news media professionals perceive and assess journalism and media trust in Kenya, a decade after a national study delved into this phenomenon. Kevin is now an Assistant Professor in the Department of Communication at Georgia State University.

Jimmy Ochieng completed his PhD with the dissertation *Newspaper Framing of Devolution as a New Development Concept in Kenya, 2013–2017*. Analyzing news articles from Daily Nation and The Standard, Jimmy's work investigates how Kenyan newspapers framed the country's instituted system of devolved government. His study identifies conflict as the dominant frame, county executive officials were the most frequently blamed actors, and shows that coverage was episodic and often negative in tone.

Danishjeet Singh completed his undergraduate studies in Computer Science. His work focused on detecting and characterizing the use of generative AI imagery on social media platforms. Danishjeet will continue this research as a PhD student in Computer Science at Indiana University.

Bao Tran Truong defended her PhD dissertation, *Fighting Online Information Abuse through Moderation: Algorithmic Tools and Policy Support.* Her work spans from detecting inauthentic actors to developing computational models to measure the impact of social media abuse and propose moderation policies. Bao is now an associate researcher at the Dresden University of Technology.

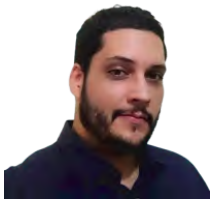
Danielle Yang, a high school student researcher in the center, completed her internship with OSoMe after contributing to projects using vision–language models to detect AI-generated images. She is now continuing her academic career at Caltech.

Visiting Scholars

Anna Bertani is a PhD student in Computer Science and Information Engineering at the University of Trento and Fondazione Bruno Kessler. Her research focuses on understanding the structural and functional characteristics of online communication networks and how these properties can influence pathological behaviors. At OSoMe, she studied how some Reddit users get radicalized through activity in misogynistic groups.

Elena Candellone is a PhD Candidate in Network Science at Utrecht University. Her research focuses on the self-organization of groups on social networks, understanding opinion formation and polarization on online social media and identifying patterns in economic crime networks. Elena was the recipient of an AccelNet-MutliNet Fellowship and during her time at OSoMe studied voting dynamics in online debate networks.

Edoardo Di Paolo is a PhD Candidate in Cybersecurity at Sapienza University of Rome. His research focuses on bot accounts on social networks, network security, and encrypted traffic classification. At the Observatory, he developed new generative AI approaches to simulate bot accounts on social media platforms and study their detectability and online interactions.



Lucas Raniere recently obtained his PhD at the Federal University of Campina Grande, Brazil. His work focuses on leveraging large language models (LLMs) to identify and mitigate political polarization online, as well as exploring the use of AI agents for automated fact-checking. While at OSoMe, Lucas ran an experiment on the use of LLMs to mitigate polarization in social media text.

Mykola Trokhymovych is a PhD Candidate in Information Technology at Universitat Pompeu Fabra, Spain. His research focuses on identifying and mitigating information manipulation in collaborative ecosystems with AI-generated content. Working with OSoMe, Mykola is studying social media content generated through digital-twin AI models, and whether it is possible to distinguish it from human-generated content. He is also developing a dataset to study the detection of such content.

OSoMe Awesome Speakers

Our lineup of OSoMe Awesome Speakers in 2024 - 2025 included:

- **Jo Lukito** (then at UT Austin) spoke about *Challenges and Solutions for Multi-Platform Studies of Election Discourse*
- **Kristina Lerman** (then at University of Southern California) gave a talk on *Collective Psychology of Social Media: Emotions, Conflict, and Mental Health in the Digital Age*
- **Jeremy Blackburn** (Binghamton University) talked about *Understanding the Prominence of Alternative Social Media Platforms*
- **Dean Freelon** (University of Pennsylvania) expanded on his essay, *Computational Research in the Post-API Age*
- **Amy Zhang** (University of Washington) presented her work on *Platform Designs and Tools to Support Users in Addressing Misinformation on Social Media*





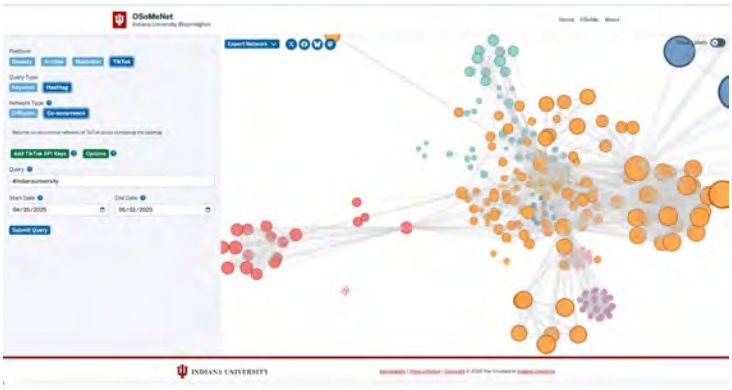
OSoMe Awesome Speakers are back for a third year with talks by **Patrick Warren** (Clemson University), **Petter Törnberg** (University of Amsterdam), **Michelle Amazeen** (Boston University), and **James Evans** (University of Chicago).

For more details about upcoming awesome talks, or to watch recordings of previous talks, please visit osome.iu.edu/events/speaker-series.

New Tools

NewsBridge is a browser extension that enhances the Facebook feed by using generative AI to provide additional context for news-related posts. When users scroll through their feed, NewsBridge identifies posts containing links. It uses Retrieval-Augmented Generation (RAG) technology to offer background context and help users better assess what they're seeing. More than just a fact-checking tool, NewsBridge is designed to encourage constructive engagement. If a post appears to include questionable information, the extension can suggest a thoughtful, non-confrontational comment that users can share to help bridge political divides.

Barney's Tavern is a powerful new search interface for accessing OSoMe's archive of 34 billion social media posts. Currently, access is limited to users with Indiana University credentials, but we welcome collaborations that could expand availability. The tool supports keyword, hashtag, and named entity searches, with filters that allow users to refine results by date, source, or other metadata. Barney replaces Moe, our previous social media data cluster, with a faster and more flexible system designed to support large-scale social media analytics research.

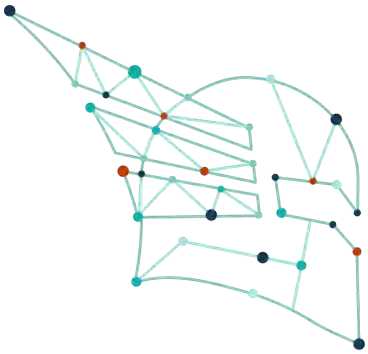


OSoMeNet is a network visualization tool that maps patterns of information sharing and spread on multiple social media platforms. Users can create diffusion graphs showing who amplified what, when, and how often through replies, reposts, mentions, or hashtag connections. The tool supports data from Bluesky, Mastodon, TikTok, and OSoMe's own historical archive. Interactive features let users zoom into networks and explore nodes, links, and online communities.

Funded Projects

Funded by the U.S. Department of Defense's **Multidisciplinary University Research Initiative (MURI)**, OSoMe is leading a team that includes collaborators at the University of California Berkeley, University of Virginia, Boston University, and Stanford University. We are studying how to measure belief resonance and its role in online communication and influence dynamics, as well as the role that artificial intelligence may play in mitigating the harmful exploitation of belief resonance. We are developing models of belief dynamics that help understand how social influence and belief coherence shape the spread of beliefs, the evolution of belief networks, and the emergence of stereotypes and polarization.

Working with partners at the University of Applied Sciences and Arts of Southern Switzerland, the University of Zurich, and the University of Southern California, our project titled *CAll for Regulation Support In Social MediA (CARISMA)* is supported by the **Swiss National Science Foundation**. We are evaluating different moderation policies to mitigate online harm. In the past year, we have studied how the delayed takedown of illegal content makes social media moderation ineffective, and how friction interventions may curb the online spread of misinformation.



Supported by the **Alfred P. Sloan Foundation** through the Social Science Research Council's **Mercury Project**, in collaboration with the University of Maryland, Dartmouth College, and Tel Aviv University, we are running an experiment to evaluate how encouraging users to mute untrustworthy accounts may affect the long-term health of their information diets.

In collaboration with PIs at the University of Massachusetts Amherst and the University of Illinois at Urbana-Champaign, a new **National Science Foundation** project titled *Identifying the Demographic Representativeness of Social Media Polls* aims to investigate and mitigate the harmful effects of social media polls by identifying their biases, studying their prevalence and dissemination, and developing corrective measures. Social media polls are not scientific and can mislead the public by favoring particular responses. The project will help maintain the integrity of public opinion perception.

A Simulation Infrastructure to Model Social Media Vulnerabilities and Interventions, our latest NSF project, will develop a public simulation tool to model the information ecosystem, focusing on how content spreads and is consumed within social media. Using agent-based modeling, the project incorporates features of information flow, network structures, and agent characteristics to better understand the dynamics of information propagation. The tool will also let researchers study the vulnerabilities created by social media affordances and the effectiveness of different interventions, providing insights that could support a more informed and resilient information ecosystem.

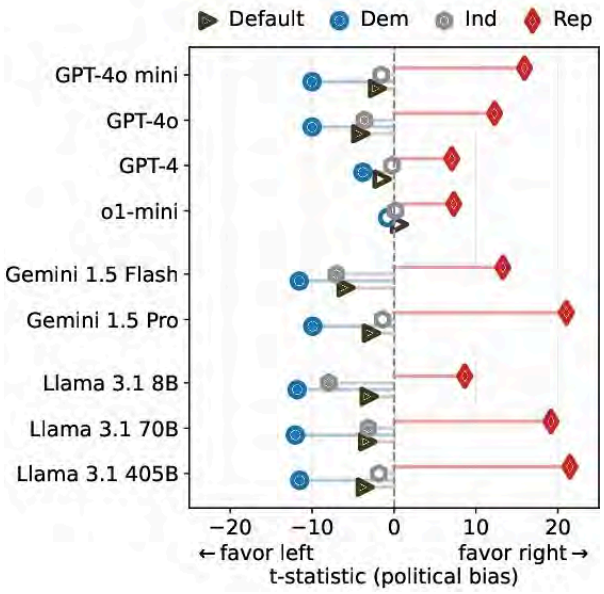
KNIGHT FOUNDATION

Finally, thanks to renewed funding from the **Knight Foundation**, OSoMe will continue in the next four years to research the generation and distribution of malicious AI-based content; expand methods to detect coordinated inauthentic behavior and online manipulation at scale; create new open-source tools and data repositories for the broader research community; and contribute to the regulatory environment through advanced simulations that help understand the impact of social media platform policies.

Research Updates

Artificial Intelligence Use and Abuse

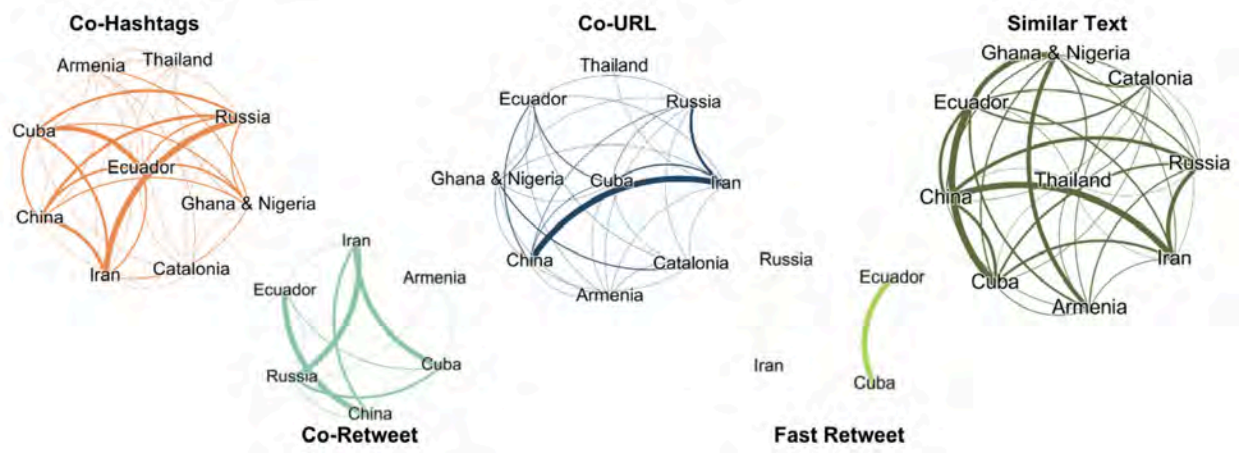
We are studying the interaction between AI and information integrity. This includes how AI can be exploited by bad actors to manipulate the information environment, for example to generate deceptive accounts and content that cannot be distinguished from human users and authentic content. We are also exploring how AI can be used to mitigate online pathologies, such as through fact-checking applications and helping users engage in healthy exchanges.



- Accuracy and Political Bias of News Source Credibility Ratings by Large Language Models. Yang, K.; and Menczer, F. In Proc. ACM Web Science Conference (WebSci)

- Can Large Language Models Effectively Mitigate Polarization in Social Media Text? Raniére J. Santos, L.; Balby Marinho, L.; Campelo, C. E. C.; Menczer, F.; and Flammini, A. In Proc. ACM Web Science Conference (WebSci)

Coordinated Inauthentic Behavior



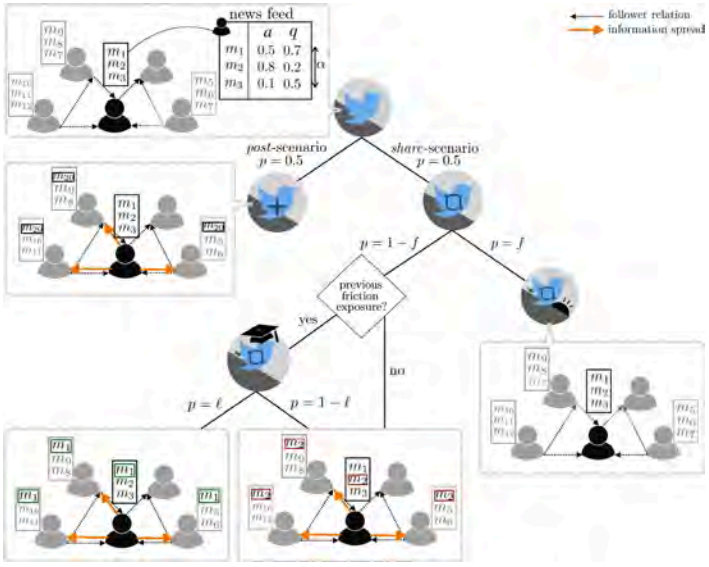
We continue our research on coordinated inauthentic behavior and social bots. We have analyzed tactics used in information operations (IO), such as coordinated reply attacks. In support of research in this area, we released a new labeled dataset about 26 IO campaigns originating from different countries, which contains both IO posts and control data — over

13M posts by 303k accounts that discussed similar topics in the same time frames. We are currently studying how social media APIs are exploited in influence operations, developing a statistical method to combine evidence from multiple coordination indicators, analyzing coordinated campaigns around the Gaza war, and developing a bot detection tool for Bluesky.

- Coordinated Reply Attacks in Influence Operations: Characterization and Detection. Pote, M.; Elmas, T.; Flammini, A.; and Menczer, F. In Proc. Intl. AAAI Conf. on Web and Social Media (ICWSM)
- Labeled Datasets for Research on Information Operations. Seckin, O. C.; Pote, M.; Nwala, A.; Yin, L.; Luceri, L.; Flammini, A.; and Menczer, F. In Proc. Intl. AAAI Conf. on Web and Social Media (ICWSM)
- Demystifying Misconceptions in Social Bots Research. Cresci, S.; Yang, K.; Spognardi, A.; Pietro, R. D.; Menczer, F.; and Petrocchi, M. *Social Science Computer Review*
- Beyond Interaction Patterns: Assessing Claims of Coordinated Inter-State Information Operations on Twitter/X. Pantè, V.; Axelrod, D.; Flammini, A.; Menczer, F.; Ferrara, E.; and Luceri, L. In Companion Proc. of the ACM on Web Conference

Prosocial Interventions

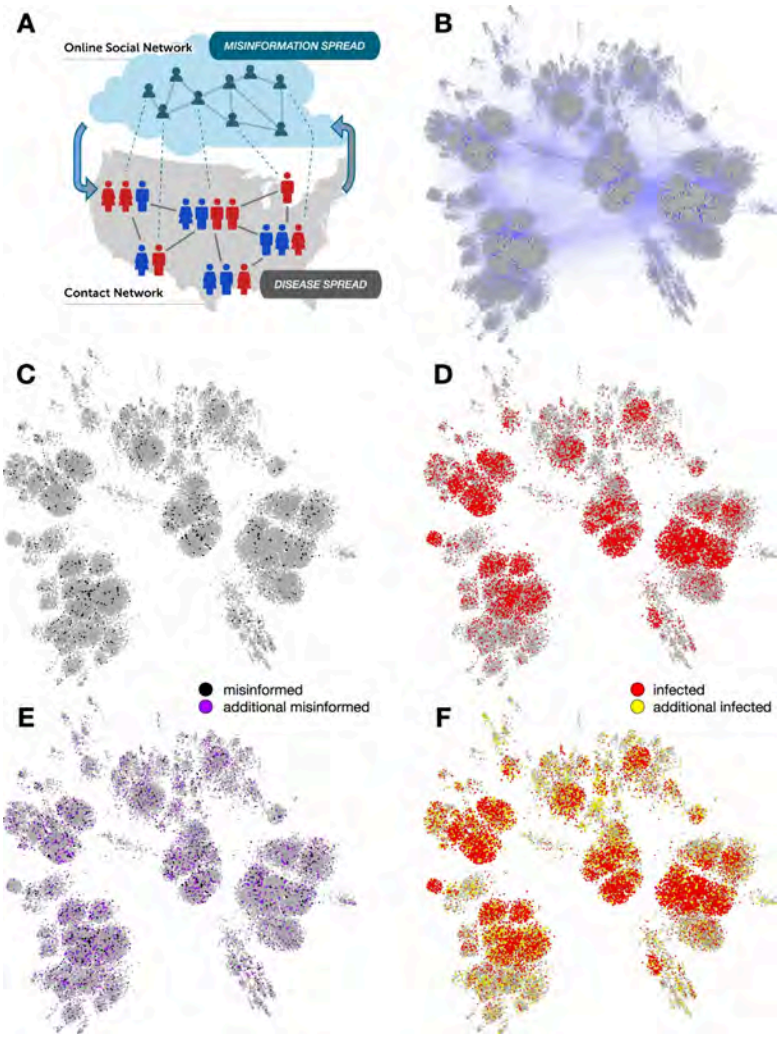
We are studying the intended and unintended effects of various prosocial interventions designed to mitigate the harms of online disinformation and polarization. For example, we showed that while a friction mechanism alone may not improve the quality of social media feeds, it could significantly increase the average quality of posts when combined with learning. Currently, we are working on indicators of constructive conflict in online discussions. The idea is to identify content that is controversial and yet resilient to toxic responses.



- A Perspective on Friction Interventions to Curb the Spread of Misinformation. Jahn, L.; Rendsvig, R. K.; Flammini, A.; Menczer, F.; and Hendricks, V. F. *npj Complexity*
- Independently testing prosocial interventions: Methods and recommendations from 31 researchers. Grüning, D. J; Kamin, J.; Saltz, E.; Acosta, T.; DiFranzo, D.; Goldberg, B.; Leavitt, A.; Menczer, F.; Musgrave, T.; Wang, Y.; and Wojcieszak, M. *Annals of the New York Academy of Sciences*

Health Misinformation

We are studying ways to quantify the harms of health misinformation, such as antivaccine content. Models calibrated on empirical data let us explore best- and worst-case scenarios. Empirical analysis of YouTube videos tells us that highly liked toxic comments by trolls induce fear and fuel vaccine hesitancy. We are currently developing models to causally link exposure to anti-vaccine content on social media to additional infections and deaths.



- Modeling the amplification of epidemic spread by individuals exposed to misinformation on social media. DeVerna, M. R.; Pierri, F.; Ahn, Y.; Fortunato, S.; Flammini, A.; and Menczer, F. *npj Complexity*
- The impact of toxic trolling comments on anti-vaccine YouTube videos. Miyazaki, K.; Uchiba, T.; Kwak, H.; An, J.; and Sasahara, K. *Scientific Reports*

Showcasing Our Research

OSoMe researchers have made an impressive mark on the field through a wide array of conference presentations, posters, and publications. These efforts showcase the center's interdisciplinary research on social media, misinformation, and computational social science, highlighting both theoretical advances and practical applications.

Summer 2024

Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC)

- Jason Peifer, Junghyun Moon, Taeyoung Lee, and Hyunjin Song: *Affinities for competing knowledge systems: Perceived News Media Importance and Social Media Importance across cultural contexts*
- Kevin Mudavadi, Bingbing Zhang, and David Lomoywara: *Examining news media and trust in political institutions in Kenya: The moderating role of perceived corruption and political freedom*
- Gerry Lanosga, Kevin Mudavadi, and Brant Houston: *Long hours but lots of freedom: Non-profit investigative journalists' diverging views of professional practices and values*
- Layire Diop, Kevin Mudavadi, Frankline Matanji, Melissa Tully, and Dani Madrid-Morales: *What is media literacy, and why does it matter? Perspectives of Senegalese social media users and media professionals*

Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)

- Zoher Kachwala, Jisun An, Haewoon Kwak, Filippo Menczer: *REMATCH: Robust and efficient matching of local knowledge graphs to improve structural and semantic similarity*

International AAAI Conference on Web and Social Media (ICWSM)

- Kai-Cheng Yang, Filippo Menczer: *Anatomy of an AI-powered malicious social botnet.*
- Munjung Kim, Tuğrulcan Elmas, Filippo Menczer: *Toxic synergy between hate speech and fake news exposure* (5th International Workshop on Cyber Social Threats)

International Conference on Computational Social Science (IC2S2)

Plenary Talks

- Kai-Cheng Yang, Filippo Menczer: *Anatomy of an AI-powered malicious social botnet*
- Byunghwee Lee, Rachith Aiyappa, Yong-Yeol Ahn, Haewoon Kwak, Jisun An: *Neural embedding of beliefs reveals the role of relative dissonance in human decision-making*

Oral Presentations

- Matthew DeVerna, Francesco Pierri, Yong-Yeol Ahn, Santo Fortunato, Alessandro Flammini, Filippo Menczer: *Misinformed populations amplify the spread of disease*
- Kai-Cheng Yang, Filippo Menczer: *Can large language models rate news outlet credibility?*
- Saumya Bhadani, Brendan J. Nyhan, Giovanni Luca Ciampaglia, Filippo Menczer, Alessandro Flammini: *Building a trustworthy social media news feed*

Posters

- Ozgur Can Seckin, Ege Otenen, Danny Valdez, Lorenzo Lorenzo-Luaces, Johan Bollen: *Quantifying the digital phenotype of loneliness on Twitter*
- Matthew DeVerna, Francesco Pierri, Rachith Aiyappa, Diogo Pacheco, John Bryden, Filippo Menczer: *Information diffusion assumptions can misshape our understanding of social networks*
- Matthew DeVerna, Harry Yajoun Yan, Kai-Cheng Yang, Filippo Menczer: *Fact-checking information generated by a large language model can decrease news discernment*
- Kai-Cheng Yang, Danishjeet Singh, Filippo Menczer: *Characteristics and prevalence of fake social media profiles with AI-generated faces*
- Filipi Nascimento Silva: *Identifying emerging trends: Leveraging LLMs and visualization for narrative analysis in social media data*
- Bao T. Truong, Sangyeon Kim, Filippo Menczer: *Quantifying the effects of time delay in illegal content takedown*
- Do Won Kim, Giovanni Luca Ciampaglia, Brendan J. Nyhan, Filippo Menczer, Maria Elizabeth Grabe, Ro'ee Levy: *Muting low-quality sources: A field experiment to mitigate the harm of inaccurate information online*

Tutorial

- Filipi Nascimento Silva, Kaicheng Yang, Bao T. Truong, Wanying Zhao: *Exploring emerging social media: Acquiring, processing, and visualizing data with Python and OSoMe web tools*

Summer 2025

International Conference on Computational Social Science (IC2S2)

Oral Presentations

- Do Won Kim, Bao Tran Truong, Ozgur Can Seckin, Saumya Bhadani: *The Effects of Outgroup Agreement and Ingroup Dissent on Political Polarization*
- Rasika Muralidharan, Bao Tran Truong, YY Ahn: *Scaling of Community Rules Across Mastodon Servers*
- Jin Ai, Jacob A. Dalsgaard, Filipi N. Silva: *Philanthropic Funding in Scientific Innovation*
- Jacob A. Dalsgaard, Jin Ai, Filipi N. Silva: *Linking Funding Landscapes: A Comparative Study of Global Science Funding*

Posters

- Ozgur Can Seckin, Bao Tran Truong, Do Won Kim, Saumya Bhadani: *Predicting Constructive Conflict in Social Media Discussions*
- Ozgur Can Seckin, Rachith Aiyappa, Alessandro Flammini, Yong-Yeol Ahn: *Spontaneous Emergence of Polarization from Networked Belief Systems*
- Shalmoli Ghosh, Matthew DeVerna, Filippo Menczer: *Civitai "Bounties": A Generative-AI Marketplace for Wholesome Art or Adult Content?*

International Conference on Web and Social Media (ICWSM)

Full Papers

- Kevin Greene, Matthew R. DeVerna, Joshua A. Tucker, Cody Buntain: *Hot Tweets and Cold Posts: Variation in US Congresspeople's Ideological Presentation on Twitter and Facebook Over Time*
- Manita Pote, Tugrulcan Elmas, Alessandro Flammini, Filippo Menczer: *Coordinated Reply Attacks in Influence Operations: Characterization and Detection*

Datasets

- Ozgur Can Seckin, Manita Pote, Alexander C. Nwala, Lake Yin, Luca Luceri, Alessandro Flammini, Filippo Menczer: *Labeled Datasets for Research on Information Operations*

International Conference on Machine Learning (ICML)

- Rachith Aiyappa, Xin Wang, Munjung Kim, Ozgur Can Seckin, Jisung Yoon, Yong-Yeol Ahn, Sadamori Kojaku: *Implicit degree bias in link prediction task*

Web Science Conference (WebSci)

- Kaicheng Yang, Filippo Menczer: *Accuracy and Political Bias of News Source Credibility Ratings by Large Language Models*

International Conference on the Science of Science and Innovation (ICSSI)

- Jin Ai, Jacob A. Dalsgaard, Filipi N. Silva: *Philanthropic Funding in Scientific Innovation*
- Jacob A. Dalsgaard, Jin Ai, Filipi N. Silva: *Linking Funding Landscapes: A Comparative Study of Global Science Funding*

Network Science Conference (NetSci)

Oral Presentations

- Filipi N. Silva: *Charting Complexity: Interactive Real-Time Visualizations of Large-Scale Networks and Embeddings with Helios-Web* (Software and Data for Supporting Network Science satellite)
- Filipi N. Silva, Andreas Bueckle, Katy Börner: *Human Reference Atlas: Embeddings of Single-Cell Data* (NetBioMed satellite)
- Rachith Aiyappa, Xin Wang, Munjung Kim, Ozgur Can Seckin, Jisung Yoon, Yong-Yeol Ahn, Sadamori Kojaku: *Implicit degree bias in link prediction task*

Poster

- Filipi N. Silva, Sadamori Kojaku, Alessandro Flammini, Filippo Radicchi, Santo Fortunato: *Scale-Dependency of Weighted Network Modularity*

Northeast Regional Conference on Complex Systems (NERCCS)

- Rachith Aiyappa, Xin Wang, Munjung Kim, Ozgur Can Seckin, Jisung Yoon, Yong-Yeol Ahn, Sadamori Kojaku: *Implicit degree bias in link prediction task*