$Sharaj \ Kunjar \ ({\rm they}/{\rm them}/{\rm theirs})$

Personal Information	PhD Student 232H, Network Science Institute 177 Huntington Ave, Northeastern University Boston, MA - 02115	E-mail: kunjar.s@northeastern.edu sharaj.kunjar@gmail.com Google Scholar LinkedIn
Affiliations	Network Science Institute (NetSI), Experiential AI Institute (EAI), Communication Media and Marginalization lab (CoMM)	
Education	PhD in Network Science (Social Science track) Northeastern University Advisors: Dr. SV Scarpino and Prof. BF Welles	September 2023 - present (GPA: 4.0/4.0)
	Bachelor of Science (Research) with major in Physic In first class with distinction Indian Institute of Science, Bangalore	cs August 2018 - April 2022 (CGPA within major: 9.1/10) (CGPA overall: 8.6/10)
Professional Experience	Graduate Research AssistantSeptember 2023Network Science Institute, Boston- presentDissertation project- presentCombining qualitative and computational text analysis methods to study online political discourse surrounding epidemics- + + + + + + + + + + + + + + + + + + +	
	Technical AssistantJuly 2022Max Planck Institute of Animal Behavior, Konstanz- July 2023Independent study associated with the CCAS project- July 2023Data processing, statistical modelling and social network analysis of collective movement and communication in foraging meerkats using acoustic and GPS datasets- Hereit and the study associated with the study associated wit	
	Project assistant Collective Behavior Cluster (CASCB), Konstanz Assisting the project "How to reach consensus?" Mean-field modelling and simulations to study how strategies affect collective decision-making in online	July 2021 - April 2022 communication social networks
	Research intern Cancer Systems Biology lab, IISc Bangalore Thesis project on stochastic modeling of opinion dy	January - April 2022 mamics
Publications	Kunjar, S.*, Strandburg-Peshkin, A., Giese, H., Minasandra, P., Sarkar, S., Jolly, M. K., & Gradwohl, N. (2023). Link updating strategies influence consensus decisions as a function of the direction of communication. Royal Society Open Science, 10(6), 230215 (DOI: https://doi.org/10.1098/rsos.230215).	
Fellowships	Recipient of the Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship, Department of Science and Technology, Government of India (2018-22).	
Skills	\bullet Programming: R, Python, MATLAB, C, ${\rm IAT}_{\rm E}{\rm X},$ Git	
	• Network analysis software: Gephi, igraph, networkx, statnet	

	• Text mining and analysis: Web-scraping, sentiment analysis, thematic analysis, content analysis, language models	
	• Mathematical modelling: ERGMs, Bayesian and frequentest statistics, markov chain models, evolutionary game theory, logistic regressions, basic information theory.	
Conference presentations	IC2S2 2024 Contributed a talk to the Politics and Media panel at the International Conference on Computational Social Science, Philadelphia, U.S.A. (July 18-20 2024)	
	CompleNet 2023 Contributed a talk at the International Conference on Complex Networks, Aveiro, Portugal (April 25-28 2023).	
Projects in Progress	Communicating about Mpox First author on a study investigating the politicized nature of the national news media coverage of the Mpox epidemic in the United States in 2022-23.	
	Contagion models of information spreading Co-author on a study reviewing and critiquing existing contagion models of information spreading on online social networks.	
	Role specialization in meerkat decision-making Co-author on a study examining how social structures influence movement decision- making in foraging meerkats by disentangling acoustic interactions.	
Courses	Applied mathematics, physics and engineering Network Science I and II, Graph Machine Learning, Probability and Statistics, Real analysis I and II, Information theory, Dynamical systems theory, Statistical physics I and II, Algorithms and programming, Neural signal Processing, Bayesian inference	
	Social Sciences Social Networks, Communication and Inclusion, Philosophy of Science	
	Biology and Behavioral Sciences Stochastic and spatial dynamics in biology, Animal behaviour, Quantitative ecology: Research design and inference, Theoretical and mathematical ecology, Dynamical sys- tems biology.	
Extra Curriculars	Outreach Manager Coordinated outreach programs to high schools, managed social media handles and wrote content for IISc's iGEM (international genetically engineered machines) team of 2019, SynShine. Our team won a gold medal for automating optics-regulated optimal growth of bacterial co-cultures.	
	Artist Manager Led a team to collaborate with Airbus, PayTM and BookMyShow to organize concerts and comedy shows at Pravega 2019.	
	Vocalist and Guitarist Alumni of IISc's Music club - Rhythmica	