PADINJAREDATH SURESH VISHNUPRASAD

Call me Vishnu (he/they).

DOCTOR OF PHILOSOPHY STUDENT

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I am an Internet Studies Ph.D. student at the Digital Media Research Centre, QUT, in Brisbane, Australia. I am working with an interdisciplinary team headed by Prof. Axel Bruns on his ARC Laureate Fellowship project on the dynamics of polarisation and partisanship in online discourses. My Ph.D. project is centred around methodologically exploring trajectories of algorithmic radicalisation at the intersection of computational and social sciences.

I did my Bachelor of Sciences and Master of Sciences (BS-MS) Dual Degree at the Indian Institute of Science Education and Research Tirupati (IISER Tirupati). I graduated in 2022 with a thesis specialisation in Physics.

My research interest broadly covers the social impact of algorithmic discourses, including polarisation, radicalisation, and disinformation proliferation. I address these questions quantitatively using mathematical modelling, network science, and data science methods, informed by social science and communication theory.

I have also been a stand-up comedian for the past three years.

EDUCATION

2023−*Present*	QUT-DMRC, Australia
PhD	Working On the Dynamics of Polarisation and Partisanship in Online Discourses, Methodologically Exploring Trajectories of Algorithmic Radicalisation. Supervisors: Prof.Axel Bruns & Prof.Daniel Angus
2017 − 2022	IISER-Tirupati, India
BS-MS Degree	Obtained Bachelor of Science and Master of Science (BSMS) degree from the Indian Institute of Science Education and Research (IISER), Tirupati with the thesis credited in the Department of Physics. Cumulative Grade Point Average (CGPA): 7.0/10

RESEARCH

2021 − 2023	SUPSI, Switzerland
Master's Thesis	Working with Dr.Luca Luceri and Prof.Dr.Silvia Giordano Tracking Fringe and Coordinated Activity on Twitter Leading Up To the US Capitol Attack. The project was called S4CH: Search 4 Computational Hate and was funded by an Emergent Ventures Grant.
2021	IISER-Tirupati, India
Student Researcher	Worked with Dr.Arunima Banerjee on the Classification of Flocculent and Grand-Design Spiral Galaxies with Convolutional Neural Networks. Used Explainable AI to characterize negative results and bias in data.

	2020 IISER-Tirupati, India
Student Researcher	Working with Prof.Dr.G Ambika On Political Polarisation And Spreading Behaviour In Complex Networks. I used network science and agent-based modeling in the project to build a network model based on stochastic differential equations of polarization. I also employed a contagion-spreading model to predict the breakdown of consensus in a 2-dimensional political-compass space.
	2019 NCBS, India
Research Intern	Worked in Dr.Shashi Thuttupalli's Lab on Self-assembly in Colloidal Systems.
	2018 Andaman Nicobar Environment Team, India
Field Research Intern	Working with Dr.Vardhan Patankar on Bleaching in Coral Reefs and as a Field Assistant.

PUBLICATIONS

ACM WebSci22 Conference	Nogara, G., **Vishnuprasad, P. S.**, Cardoso, F., Ayoub, O., Giordano, S., & Luceri, L. (2022). THE DISINFORMATION DOZEN: AN EXPLORATORY ANALYSIS OF COVID-19 DISINFORMATION PROLIFERATION ON TWITTER. *Proceedings of the 14th International ACM Conference on Web Science in 2022.* ACM DL
Masters Thesis	**Vishnuprasad, P.S**. (2022). TRACKING EVOLUTION OF COORDINATED ACTIVITY ON TWITTER PDF
Working Paper	**Vishnuprasad, P. S.**, Nogara, G., Cardoso, F., Cresci, S., Giordano, S., & Luceri, L. (2023). TRACKING FRINGE AND COORDINATED ACTIVITY ON TWITTER LEADING UP TO THE US CAPITOL ATTACK. *Under double-blind review at an upcoming international conference.*

SKILLS

PYTHON	Functional Programming with SciPy, NumPy, NetworkX, matplotlib, Keras, scikit-learn, TensorFlow, Pandas, and MultiProcessing
APPLIED MATH	Nonlinear Dynamics, Complex System Analysis, Linear Algebra
RESEARCH	Gephi, GitHub, Academic and Science Communication Writing, Interdisciplinary Collaboration, LaTeX, Proposal Writing

OTHER INFORMATION

Achievements	· Queensland University of Technology Postgraduate Research Award (2022) · Recipient of Emergent Ventures India Grant (2021) · Selected for the Simon-NCBS Monsoon School on Physics of Life (2019) · Winner of National Scientific Genius Hunt (2014)
Languages	MALAYALAM · Mother Tongue ENGLISH · Advanced/Bilingual (TOEFL-iBT 103/120) HINDI · Intermediate (Conversationally fluent) Limited understanding in TAMIL, SANSKRIT and ITALIAN
About Me	I have been an active member of the student body in the university and have been involved in organizing various initiatives and events. I am an active member of the LGBTQ+ community, and I am passionate about exploring multiple intersectional aspects of social justice movements. I am a writer and have been an editor and contributor for student-run magazines since high school. I am also a stand-up comedian, and I have been performing comedy for almost two years with about 200 gigs under my belt. I like to cook, read, and learn more about society, comedy, and philosophy in my free time.