Danaja Maldeniya

University of Michigan *Email:* dmal@umich.edu 707 Weiser Hall Website: dmaldeniya.com 500 Church St Ann Arbor, MI 48109 Mobile: (734)-926-6380 Research I'm interested in understanding the mechanisms that support sustainable large-scale INTERESTS collaboration dynamics. In particular, I am exploring the interactions between mechanisms at different scales of behavior, such as individuals, teams, and the community, and linking them to outcomes. I use a computational social science approach which combines theory driven frameworks with innovative computational methods, from network analysis and causal modeling among others, that leverage large-scale observational datasets. EDUCATION PhD in Information Science 2023 University of Michigan Advisor: Daniel Romero BSc in Computer Science & Engineering (First Class) 2011 University of Moratuwa, Sri Lanka EXPERIENCE **Postdoctoral fellow** 2023 -University of Michigan, Center for the Study of Complex Systems Ann Arbor, MI 2022 - 2023 **Research** Assistant University of Michigan, Center for the Study of Complex Systems Ann Arbor, MI **Research Assistant** 2016 - 2021 University of Michigan, School of Information Ann Arbor, MI **Research Intern** May 2020 - Aug 2020 USC Information Sciences Institute Los Angeles, CA **Research Intern** Jun 2017 - Aug 2017 Bell Laboratories, Social Dynamics Team Cambridge, UK **Research Fellow** Aug 2016 - present LIRNEasia Colombo, Sri Lanka Senior Researcher Apr 2015 - Aug 2016 LIRNEasia, Big Data for Development Team Colombo, Sri Lanka Apr 2014 - March 2015 Researcher LIRNEasia, Big Data for Development Team Colombo, Sri Lanka Senior Software Engineer Jan 2014 - Apr 2015 Colombo, Sri Lanka CodeGen International Dec 2011 - Dec 2013 Software Engineer CodeGen International Colombo, Sri Lanka

Selected Publications	D. Maldeniya , M. De Choudhury, D. Garcia, D.M. Romero "Pulling Through To- gether: Social Media Trajectories of Recovery in Disaster Stricken Communities". Jour- nal of Computational Social Science, 1-52, 2023.
	J. Jiang, D. Maldeniya , K. Lerman, and E. Ferrara. "The Wide, the Deep, and the Maverick:Types of Players in Team-based Online Games". Proc. ACM HumComput. Interact.5, CSCW, 2021
	D. Maldeniya , C. Budak, L. Robert, and D.M. Romero. "Herding a Deluge of Good Samaritans: How GitHub Projects Respond to Increased Attention.". Proc. of The Web Conference (WWW), 2020.
	J.E. Blumenstock, D. Maldeniya , and S. Lokanathan. "Understanding the Impact of Urban Infrastructure:New Insights from Population-Scale Data". The 9th IEEE/ACM International Conference on Information and Communication Technologies and Development (ICTD), 2017
	D. Maldeniya , A. Varghese, T. Stuart, and D.M. Romero. "The Role of Optimal Distinctiveness and Homophily in Online Dating." Proc. 11th International AAAI Conference on Web and Social Media (ICWSM), 2017
	R. Samarajiva, S. Lokanathan, K. Madhawa, G. Kriendler, D. Maldeniya , "Big data to improve urban planning", Economic and Political Weekly, Vol. L, No. 22, 2015.
Other Publications	D. Maldeniya , A. Kumarage, S. Lokanathan, G. Kriendler, K. Madhawa, "Where did you come from? Where did you go? Robust policy relevant evidence from mobile network big data", CPRSouth, 2015.
	K. Madhawa, S. Lokanathan, D. Maldeniya , R. Samarajiva, "Using mobile network data for land use classification", CPRSouth, 2015.
	K. Madhawa, S. Lokanathan, R. Samarajiva, D. Maldeniya , "Understanding communities using mobile network big data", CPRSouth, 2015.
	D. Maldeniya , S. Lokanathan, A. Kumarage, "Origin-Destination matrix estimation for Sri Lanka using mobile network big data", 13th International Conference on Social Implications of Computers in Developing Countries, 2015.
	K. Madhawa, S. Lokanathan, D. Maldeniya , R. Samarajiva, "Land use classification using call detail records" (Poster Abstract), NetMob, 2015.
	N. de Silva, A. Perera, D. Maldeniya , "Semi-supervised Algorithm for Concept Ontology Based Word Set Expansion", International Conference on Advances in ICT for Emerging Regions(ICTER), 2013.
Scholarly Presentations	"Ties That Bind: Influence of Online Social Capital on Relocation Choice after Disasters", IC2S2 2022
	"How GitHub Projects Respond to Increased Attention", IC2S2 2020
	"Herding a Deluge of Good Samaritans: How GitHub Projects Respond to Increased Attention.", MIDAS Symposium 2020

	"Psychological Response of Communities affected by Natural Disa dia", UMTweetCon2019	sters in Social Me-
	"Psychological Response of Communities affected by Natural Disa dia", MIDAS Symposium 2018 (Award for Most Innovative Use of	sters in Social Me- Data)
Professional Service	ESSIONAL Reviewing: ICWSM 2023, IC2S2 2022, CSCW 2022, ICWSM 2022, W CE (WWW) 2021, CSCW 2021, ICWSM 2021, EPJ Data Science, IC2S2 2020 2020, WWW 2020, WSDM 2020, ICDM 2020, Nature Scientific Reports, WW WSDM 2018	
	Mentoring : Kaifeng Chen (Masters Student), Stella Choi (Master Ye (Undegraduate Student), Eric Lian (Undergraduate Student)	rs Student), Jiaxin
Teaching Experience	SIADS 516: Big Data: Scalable Data Processing University of Michigan	Summer 2022 Ann Arbor, MI
	SIADS 652: Network Analysis University of Michigan	May 2022 Ann Arbor, MI
	CMPLXSYS 251: Computational Social Science University of Michigan	Winter 2022 Ann Arbor, MI
	SI 618: Data Manipulation and Analysis University of Michigan	Fall 2021 Ann Arbor, MI
	SI 301: Models of Social Information Processing University of Michigan	Fall 2017 Ann Arbor, MI