

Lydia Manikonda

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EXPERIENCE	Assistant Professor, Lally School of Management, Rensselaer Polytechnic Institute, Troy, NY Course Instructor – CSE 494/598 Information Retrieval, Arizona State University, Tempe, AZ Research Intern, IBM T. J. Watson Research Center, Yorktown Heights, NY Research Intern, Microsoft Research, Redmond, WA Research Engineer, Kyungpook National University, Daegu, South Korea Research Intern, University of Minnesota, Twin Cities, MN Research Intern, University of Sydney, Sydney, Australia Research Assistant <ul style="list-style-type: none">• Arizona State University, Tempe, AZ• IIIT-Hyderabad, Hyderabad, India	Fall 2019 – <i>Present</i> Spring 2016 Summer 2016 Summer 2015 Summer 2012 January 2011 – December 2011 Summer 2008 Fall 2013 – Summer 2019 Fall 2008 – Fall 2010
EDUCATION	Ph.D. Computer Science, Arizona State University, Tempe, Arizona Advisor: <i>Prof. Subbarao Kambhampati (rakaposhi.eas.asu.edu)</i> M.S. Computer Science and Engineering, International Institute of Information Technology, Hyderabad, India B.Tech (Hons) Computer Science and Engineering, International Institute of Information Technology, Hyderabad, India	2019 2012 2009
CURRENT FUNDING AWARDS	1. NSF IUCRC – Center for Research toward Advancing Financial Technologies (CRAFT). Full Grant: High Dimensional Portfolio Design and Optimization using an Explainable Ensemble Learning Framework. L. Manikonda (PI), C. Edirisinghe (Co-PI). \$100,000. 06/01/2022 to 05/31/2023.	
PEER- REVIEWED CONFERENCE PUBLICATIONS	[1] Yuanyuan Liu, T. Ravichandran, Lydia Manikonda ¹ “Can Emotional Cues Substitute for Sharing Privacy Compromising Personal Information: An Empirical Exploration in Medical Crowdfunding”, <i>TREO, International Conference on Information Systems (ICIS)</i> , 2023 [2] Joseph Sebastian, Lydia Manikonda ¹ “Exploring the Role of Temporal Privacy in Intelligent Personal Assistants”, <i>TREO, International Conference on Information Systems (ICIS)</i> , 2023 [3] Yelena Mejova ¹ , Lydia Manikonda ¹ “Comfort Foods and Community Connectedness: Investigating Diet Change during COVID-19 using YouTube Videos on Twitter”, <i>ICWSM</i> , 2023 [4] Joseph Sebastian, Lydia Manikonda , “Investigating Privacy Paradox in the Context of Voice-based AI Systems”, <i>TREO, Americas Conference on Information Systems (AMCIS)</i> , 2022. [5] Lydia Manikonda , Mee Young Umm, and Rui Fan, “Shift of User Attitudes about Anti-Asian Hate on Reddit Before and During COVID-19”, <i>ACM Web Science Conference (WebSci)</i> , 2022.	

- [6] Nay Aungwin Zaw, **Lydia Manikonda**, “Linguistic Analysis of User Disclosures about Smoking Addiction during COVID-19 via Reddit”, *Data Challenge at ICWSM*, 2022.
- [7] Yufei Wu, Thilanka Munasinghe, **Lydia Manikonda**, and Oshani Seneviratne, “Data-driven Analysis of Remote Work in China during the COVID-19 Pandemic”, *In Proceedings of the 55th Hawaii International Conference on System Sciences*, 2022.
- [8] Niharika Jain, Alberto Olmo, Sailik Sengupta, **Lydia Manikonda**, Subbarao Kambhampati, “Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data”, *SDG Workshop, ICLR*, 2021.
- [9] Brendan Cunha, **Lydia Manikonda**, “An RNN-based Classifier to detect Misinformation in News Articles”, *ICWSM Data Challenge: Safety*, 2020.
- [10] **Lydia Manikonda**, Shailesh Divey, “Reddit: A Novel Online Financial Consultancy”, *The AAAI-20 Workshop on Knowledge Discovery from Unstructured Data in Financial Services (KDF)*, 2020.
- [11] Niharika Jain, **Lydia Manikonda**, Alberto Olmo Hernandez, Sailik Sengupta, and Subbarao Kambhampati, “Imagining an Engineer: On GAN-Based Data Augmentation Perpetuating Biases”, *arXiv preprint arXiv:1811.03751*, 2018.
- [12] **Lydia Manikonda**, Subbarao Kambhampati, “Tweeting AI: Perceptions of Lay vs Expert Twiterati”, *The International Conference on Weblogs and Social Media (ICWSM)*, 2018.
- [13] Nur Kamarudin, Vineeth Rakesh, Ghazaleh Beigi, **Lydia Manikonda**, Huan Liu, “A Study of Reddit – Users Response to Rape”, *ASONAM*, 2018.
- [14] **Lydia Manikonda**, Ghazaleh Beigi, Huan Liu, Subbarao Kambhampati, “#metoo through the Lens of Social Media”, *SBP-BRIMS*, 2018.
- [15] **Lydia Manikonda**, Aditya Deotale, Subbarao Kambhampati, “What’s up with Privacy?: User Preferences and Privacy Concerns in Intelligent Personal Assistants”, *AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society*, 2018.
- [16] **Lydia Manikonda**, Shirin Sohrabi, Biplav Srivastava, Kartik Talamadupula, Subbarao Kambhampati, “Extracting Incomplete Planning Action Models from Unstructured Social Media Data to Support Decision Making”, *Workshop on Knowledge Engineering for Planning and Scheduling, ICAPS*, 2017.
- [17] **Lydia Manikonda**, Tathagata Chakraborti, Kartik Talamadupula, Subbarao Kambhampati, “Herd-ing the Crowd: Using Automated Planning for Better Crowdsourced Planning”, *Human Computation Journal* Vol 4, No 1 2017.
- [18] **Lydia Manikonda**, Munmun De Choudhury, “Modeling and Understanding Visual Attributes of Mental Health Disclosures in Social Media”, *ACM CHI Conference on Human Factors in Computing Systems (CHI)*, 2017.
- [19] Ece Kamar, **Lydia Manikonda**, “Complementing the Execution of AI Systems with Human Computation”, *AAAI Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents*, 2017.
- [20] **Lydia Manikonda**, Vamsi Meduri, Subbarao Kambhampati, “Tweeting the Mind and Instagramming the Heart: Exploring Differentiated Content Sharing on Social Media”, *The International Conference on Weblogs and Social Media (ICWSM)*, 2016.
- [21] **Lydia Manikonda**, Heather Pon-Barry, Subbarao Kambhampati, Eric Hekler, David W. McDonald, “Venting Weight: Analyzing the Discourse of an Online Weight Loss Forum”, *The 3rd International Workshop on the World Wide Web and Population Health Intelligence (AAAI-W3PHI)*, 2016.
- [22] **Lydia Manikonda**, Tathagata chakraborti, Sushovan De, Kartik Talamadupula, Subbarao Kambhampati, “AI-MIX: How a Planner Can Help Guide Humans Towards a Better Crowdsourced Plan”, *Conference on Human Computation & Crowdsourcing (HCOMP) WIP Track*, 2014.
- [23] Yuheng Hu, **Lydia Manikonda**, Subbarao Kambhampati, “What We Instagram: A First Analysis of Instagram Photo Content and Users”, *The International Conference on Weblogs and Social Media*

(ICWSM), 2014 [Featured on [Wired](#), [abcnews](#)].

- [24] **Lydia Manikonda**, Usha Kumar, Shashi Shekhar, “A Facebook Application for Improving Disaster Management”, *Grace Hopper Conference for Women in Computing*, 2012.
- [25] Ashish Garg, **Lydia Manikonda**, Shashank Kumar, Vikrant Krishna, Shyam Boriah, Michael Steinbach, Vipin Kumar, Durga Toshniwal, Christopher Potter, Steven Klooster, “A Model-Free Time Series Segmentation Approach for Land Cover Change Detection”, *NASA Conference on Intelligent Data Understanding (CIDU)*, 2011.
- [26] **Lydia Manikonda**, Raghvendra Mall, Vikram Pudi, Raghunath Rao, “Mining Nutrition Survey Data”, *IEEE Symposium on Computational Intelligence and Data Mining*, Paris, France, April 2011.
- [27] **Lydia Manikonda**, Ashish Mangalampalli, Vikram Pudi, “UACI: Uncertain Associative Classifier for Object Class Identification”, *The 25th International Conference of Image and Vision Computing*, New Zealand, November 2010.
- [28] **Lydia Manikonda**, Annu Tuli, Vikram Pudi, “ProMax: A Profit Maximizing Recommendation System for Market Baskets”, *SIGAI Workshop on Emerging Research Trends in AI*, 2010.

REFEREED
JOURNAL
PUBLICATIONS

- [29] **Lydia Manikonda**, Dorit Nevo, Benjamin D. Horne, Clare Arrington, and Sibel Adali, “The Reasoning behind Fake News Assessments: A Linguistic Analysis”, *AIS Transactions on Human-Computer Interaction (Special issue on Fake News and Deception)*, 2022.
- [30] Niharika Jain, Alberto Olmo, Sailik Sengupta, **Lydia Manikonda**, Subbarao Kambhampati, “Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data”, *Artificial Intelligence (AIJ) Journal*, 2021.
- [31] Benjamin D. Horne, Dorit Nevo, Sibel Adali, **Lydia Manikonda**, and Clare Arrington, “Tailoring Heuristics and Timing AI Interventions for Supporting News Veracity Assessments”, *Computers in Human Behavior Reports*, 2020.
- [32] **Lydia Manikonda**, Tathagata Chakraborti, Kartik Talamadupula, Subbarao Kambhampati, “Herd-ing the Crowd: Using Automated Planning for Better Crowdsourced Planning”, *Human Computation Journal*, 2017.
- [33] Shashi Shekhar, KwangSoo Yang, Venkata M.V. Gunturi, **Lydia Manikonda**, Dev Oliver, Xun Zhou, Betsy George, Sangho Kim, Jeffrey M. R. Wolff, Qingsong Lu, “Experiences with Evacuation Route Planning Algorithms”, *International Journal of Geographical Information Science (IJGIS)*, 2012.

PATENTS

- [34] **Lydia Manikonda**, Shirin Sohrabi, Biplav Srivastava, Kartik Talamadupula, “Learning Personalized Actionable Domain Models” Pub.No: US 2018/0285770 A1, Pub.Date: Oct.4,2018.
- [35] **Lydia Manikonda**, Shirin Sohrabi, Biplav Srivastava, Kartik Talamadupula, Anton Riabov, Deepak Turaga, “Autonomous learning of actionable models from unstructured data” Pub.No: US 2018/0218270 A1, Pub.Date: Aug.2, 2018.

BOOK
CHAPTERS

- [36] Nur Shazwani Kamarudin, Ghazaleh Beigi, **Lydia Manikonda**, Huan Liu, “Social Media for Mental Health: Data, Methods, and Findings”, *Open Source Intelligence and Cyber Crime (Social Media Analytics)*, 195-220, Springer Link, 1st ed. 2020.

MEDIA
MENTIONS

- Seeking a Moral Compass in the Digital Age ([URL](#))
- Discussing COVID-19 and Unemployment on Spectrum News ([URL](#))
- "Why Not Change the World?" RPI Podcast on Social Media and Artificial Intelligence ([URL](#))
- Twelve Christian Women in Science You Should Know ([URL](#)) by Christianity Today
- AI and Machine Learning in the context of Privacy – State Press – Arizona State University ([URL](#))
- The Best of the Physics arXiv – MIT Technology Review ([URL](#))
- Article on AI expertise and Twitter – Network World ([URL](#))
- Write up on our Instagram research – ABC news ([URL](#))
- Article on our Instagram research – Wired ([URL](#))

AWARDS	<ul style="list-style-type: none"> • RPI's Board of Trustees Celebration of Faculty Achievement Award – December 2022. • Best reviewer award ICWSM 2019. • People's Choice award for Best Demonstration, ICAPS 2014. • Recipient of Anita Borg Institute Scholarship 2015, 2011. • Full travel support to attend Doctoral Consortium at ICAPS-2014, HCOMP-2014. • Recipient of University Graduate Fellowship Award for Fall-2013, Spring-2014 and Summer-2014, Arizona State University. • Google-India Woman in Engineering Award 2011. • Listed in the Dean's Merit List at IIIT-H for the academic performance in Fall-2007, Spring-2008. • Recipient of Special Mention Award-2009 from IIIT-H for organizing research activities from 2007-2009.
ADVISING	<ol style="list-style-type: none"> 1. Current Doctoral Students: Joseph Sebastian, Yuanyuan Liu 2. Current Masters and Undergrad Students: Sophia Mazzariello, Amish Soni, Brook Zeleke, RCOS team (Russell Harter, Ritika Brahmadesam, Calvin Ramiah, Yashas Balaji, Pranav Rana, Noah Taylor) 3. Past: Noah Kader, Nay Zaw Aung Win, Shuhan Li, Bradley Morton, Shailesh Divey, Joshua Graham, Junxiong Tang, Aditya Deotale, Cameron Dudley
SKILLSET	<p>Programming Languages C, C++, JAVA, Python, Matlab, R</p> <p>Techniques MySQL, Tableau, Javascript, HTML, PHP, WEKA, multiple deep learning Python packages</p>
SERVICE	<p>Served on an NSF panel.</p> <p>Organizer/Chair – <i>Scientific Discovery with AI</i> Diversity Series Workshop at AAAI-2021 (https://sites.google.com/view/ai4be)</p> <p>Senior Program Committee member ICWSM, WebScience</p> <p>Program Committee member WebConf, NAACL-HLT, ACL, ASONAM, SDM</p> <p>Journal Reviewer Transactions on the Web, Transactions on Social Computing</p> <p>Data Analyst for IJCAI 2016</p> <p>Volunteer Map Editor with USGS</p>
PROFESSIONAL MEMBERSHIPS	ACM, AAAI, AIS