

# Lydia Manikonda

manikl@rpi.edu

<https://lmanikon.github.io/>

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EXPERIENCE	<b>Assistant Professor,</b> Lally School of Management, Rensselaer Polytechnic Institute, Troy, NY	Fall 2019 – <i>Present</i>
	<b>Course Instructor – CSE 494/598 Information Retrieval,</b> Arizona State University, Tempe, AZ	Spring 2016
	<b>Research Intern,</b> IBM T. J. Watson Research Center, Yorktown Heights, NY	Summer 2016
	<b>Research Intern,</b> Microsoft Research, Redmond, WA	Summer 2015
	<b>Research Engineer,</b> Kyungpook National University, Daegu, South Korea	Summer 2012
	<b>Research Intern,</b> University of Minnesota, Twin Cities, MN	January 2011 – December 2011
	<b>Research Intern,</b> University of Sydney, Sydney, Australia	Summer 2008
	<b>Research Assistant</b> <ul style="list-style-type: none"><li>• Arizona State University, Tempe, AZ</li><li>• IIIT-Hyderabad, Hyderabad, India</li></ul>	Fall 2013 – Summer 2019 Fall 2008 – Fall 2010
EDUCATION	<b>Ph.D. Computer Science,</b> Arizona State University, Tempe, Arizona Advisor: <i>Prof. Subbarao Kambhampati (rakaposhi.eas.asu.edu)</i>	2019
	<b>M.S. Computer Science and Engineering,</b> International Institute of Information Technology, Hyderabad, India	2012
	<b>B.Tech (Hons) Computer Science and Engineering,</b> International Institute of Information Technology, Hyderabad, India	2009
PUBLICATIONS	<ul style="list-style-type: none"><li>[1] <b>Lydia Manikonda</b>, 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.</li><li>[2] <b>Lydia Manikonda</b>, Dorit Nevo, Benjamin D. Horne, Clare Arrington, and Sibel Adali, “The Reasoning behind Fake News Assessments: A Linguistic Analysis”, <i>AIS Transactions on Human-Computer Interaction (Special issue on Fake News and Deception)</i>, 2022.</li><li>[3] Yufei Wu, Thilanka Munasinghe, <b>Lydia Manikonda</b>, and Oshani Seneviratne, “Data-driven Analysis of Remote Work in China during the COVID-19 Pandemic”, <i>In Proceedings of the 55th Hawaii International Conference on System Sciences</i>, 2022.</li><li>[4] Niharika Jain, Alberto Olmo, Sailik Sengupta, <b>Lydia Manikonda</b>, Subbarao Kambhampati, “Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data”, <i>Artificial Intelligence (AIJ) Journal</i>, 2021.</li><li>[5] Niharika Jain, Alberto Olmo, Sailik Sengupta, <b>Lydia Manikonda</b>, Subbarao Kambhampati, “Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data”, <i>SDG Workshop, ICLR</i>, 2021.</li><li>[6] Benjamin D. Horne, Dorit Nevo, Sibel Adali, <b>Lydia Manikonda</b>, and Clare Arrington, “Tailoring Heuristics and Timing AI Interventions for Supporting News Veracity Assessments”, <i>Computers in Human Behavior Reports</i>, 2020.</li></ul>	

- [7] Brendan Cunha, **Lydia Manikonda**, "An RNN-based Classifier to detect Misinformation in News Articles", *ICWSM Data Challenge: Safety*, 2020.
- [8] **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.
- [9] 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.
- [10] **Lydia Manikonda**, Subbarao Kambhampati, "Tweeting AI: Perceptions of Lay vs Expert Twitterati", *The International Conference on Weblogs and Social Media (ICWSM)*, 2018.
- [11] Nur Kamarudin, Vineeth Rakesh, Ghazaleh Beigi, **Lydia Manikonda**, Huan Liu, "A Study of Reddit – Users Response to Rape", *ASONAM*, 2018.
- [12] **Lydia Manikonda**, Ghazaleh Beigi, Huan Liu, Subbarao Kambhampati, "#metoo through the Lens of Social Media", *SBP-BRIMS*, 2018.
- [13] **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.
- [14] **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.
- [15] **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.
- [16] **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.
- [17] **Lydia Manikonda**, Tathagata Chakraborti, Kartik Talamadupula, Subbarao Kambhampati, "Herd- ing the Crowd: Using Automated Planning for Better Crowdsourced Planning," *Human Computation Journal*, 2017.
- [18] Ece Kamar, **Lydia Manikonda**, "Complementing the Execution of AI Systems with Human Com- putation" AAAI Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents, 2017.
- [19] **Lydia Manikonda**, Vamsi Meduri, Subbarao Kambhampati, "Tweeting the Mind and Instagram- ming the Heart: Exploring Differentiated Content Sharing on Social Media," *The International Conference on Weblogs and Social Media (ICWSM)*, 2016.
- [20] **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.
- [21] **Lydia Manikonda**, Tathagata chakraborti, Sushovan De, Kartik Talamadupula, Subbarao Kamb- hampati, "AI-MIX: How a Planner Can Help Guide Humans Towards a Better Crowdsourced Plan," *Conference on Human Computation & Crowdsourcing (HCOMP) WIP Track*, 2014.
- [22] 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*].
- [23] **Lydia Manikonda**, Usha Kumar, Shashi Shekhar, "A Facebook Application for Improving Disaster Management," *Grace Hopper Conference for Women in Computing*, 2012.
- [24] 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.

[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 25<sup>th</sup> 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.

#### PATENTS

[29] **Lydia Manikonda**, Shirin Sohrabi, Biplav Srivastava, Kartik Talamadupula, “Learning Personalized Actionable Domain Models” Pub.No: US 2018/0285770 A1, Pub.Date: Oct.4,2018.

[30] **Lydia Manikonda**, Shirin Sohrabi, Biplav Srivastava, Kartik Talamadupula, Anton Riabov, Deepark Turaga, “Autonomous learning of actionable models from unstructured data” Pub.No: US 2018/0218270 A1, Pub.Date: Aug.2, 2018.

#### BOOK CHAPTERS

[31] 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

- 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.

#### MENTORING

<b>Joseph Sebastian</b>	Fall 2021 – <i>Present</i>
Graduate student, Rensselaer Polytechnic Institute, Troy, NY	
<b>Nay Zaw Aung Win</b>	Spring 2022 – <i>Present</i>
Graduate student, Rensselaer Polytechnic Institute, Troy, NY	
<b>Joshua Graham</b>	Spring 2022 – <i>Present</i>
Undergraduate student, Rensselaer Polytechnic Institute, Troy, NY	

<b>Junxiong Tang</b>	Fall 2019
Graduate student, Rensselaer Polytechnic Institute, Troy, NY	
<b>Shailesh Divey</b>	Fall 2019
Graduate student, Rensselaer Polytechnic Institute, Troy, NY	
<b>Aditya Deotale</b>	Fall 2018–Spring 2020
Graduate Student, Arizona State University, Tempe, AZ	
<b>Cameron Dudley</b>	Fall 2017–Spring 2018
Undergraduate Student, Arizona State University, Tempe, AZ	

SKILLSET	<b>Programming Languages</b> C, C++, JAVA, Python, Matlab, R <b>Techniques</b> MySQL, Javascript, HTML, PHP, WEKA, multiple deep learning Python packages
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SERVICE	Served on an <b>NSF</b> panel. <b>Organizer/Chair</b> – <i>Scientific Discovery with AI</i> Diversity Series Workshop at <b>AAAI-2021</b> ( <a href="https://sites.google.com/view/ai4be">https://sites.google.com/view/ai4be</a> ) <b>Senior Program Committee member</b> ICWSM <b>Program Committee member</b> WebConf, NAACL-HLT, ACL, ASONAM, SDM, WebSci <b>Journal Reviewer</b> Transactions on the Web, Transactions on Social Computing <b>Data Analyst for IJCAI 2016</b> <b>Volunteer Map Editor with USGS</b>
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PROFESSIONAL MEMBERSHIPS	<b>AIS, ACM, AAAI</b>
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