Lydia Manikonda

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https://lmanikon.github.io/

EXPERIENCE

Assistant Professor,   Fall 2019 – *Present*
Lally School of Management, Rensselaer Polytechnic Institute, Troy, NY
Teaching
- MGMT 6560-02 Introduction to Machine Learning Applications   Fall 2019–*Present*
  Avg instructor evaluation: 4.40/5
- MGMT 6160-02 (MGMT 4963-02) Applied Analytics and Predictive Modeling   Spring 2020
  Avg instructor evaluation: 4.43/5

Course Instructor – CSE 494/598 Information Retrieval,   Spring 2016
Arizona State University, Tempe, AZ

Research Intern,   Summer 2016
IBM T. J. Watson Research Center, Yorktown Heights, NY

Research Intern,   Summer 2015
Microsoft Research, Redmond, WA

Research Engineer,   Summer 2012
Kyungpook National University, Daegu, South Korea

Research Intern,   January 2011 – December 2011
University of Minnesota, Twin Cities, MN

Research Intern,   Summer 2008
University of Sydney, Sydney, Australia

Research Assistant
- Arizona State University, Tempe, AZ   Fall 2013 – Summer 2019
- IIIT-Hyderabad, Hyderabad, India   Fall 2008 – Fall 2010

EDUCATION

Ph.D. Computer Science,   2019
Arizona State University, Tempe, Arizona
Advisor: *Prof. Subbarao Kambhampati* (rakaposhi.eas.asu.edu)

M.S. Computer Science and Engineering,   2012
International Institute of Information Technology, Hyderabad, India

B.Tech (Hons) Computer Science and Engineering,   2009
International Institute of Information Technology, Hyderabad, India

PUBLICATIONS

[1] Niharika Jain, Alberto Olmo, Sailik Sengupta, **Lydia Manikonda**, Subbarao Kambhampati, "Imperfect ImaGANation: Implications of GANs Exacerbating Biases on Facial Data", *SDG Workshop, ICLR*, 2021.

[2] 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.

[3] Brendan Cunha, **Lydia Manikonda**, "An RNN-based Classifier to detect Misinformation in News Articles", *ICWSM Data Challenge: Safety*, 2020.

[4] **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.

[5] 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.

[6] **Lydia Manikonda**, Subbarao Kambhampati, "Tweeting AI: Perceptions of Lay vs Expert Twitterati", *The International Conference on Weblogs and Social Media (ICWSM)*, 2018.

[7] Nur Kamarudin, Vineeth Rakesh, Ghazaleh Beigi, **Lydia Manikonda**, Huan Liu, "A Study of Reddit – Users Response to Rape", *ASONAM*, 2018.

[8] **Lydia Manikonda**, Ghazaleh Beigi, Huan Liu, Subbarao Kambhampati, "#metoo through the Lens of Social Media", *SBP-BRiMS*, 2018.

[9] **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.

[10] **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.

[11] **Lydia Manikonda**, Tathagata Chakraborti, Kartik Talamadupula, Subbarao Kambhampati, "Herding the Crowd: Using Automated Planning for Better Crowdsourced Planning," *Human Computation Journal* Vol 4, No 1 2017.

[12] **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.

[13] **Lydia Manikonda**, Tathagata Chakraborti, Kartik Talamadupula, Subbarao Kambhampati, "Herding the Crowd: Using Automated Planning for Better Crowdsourced Planning," *Human Computation Journal*, 2017.

[14] Ece Kamar, **Lydia Manikonda**, "Complementing the Execution of AI Systems with Human Computation" AAAI Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents, 2017.

[15] **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.

[16] **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.

[17] **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.

[18] 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*].

[19] **Lydia Manikonda**, Usha Kumar, Shashi Shekhar, "A Facebook Application for Improving Disaster Management," *Grace Hopper Conference for Women in Computing,* 2012.

[20] 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.

[21] 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.

[22] **Lydia Manikonda**, Raghvendra Mall, Vikram Pudi, Raghunath Rao, "Mining Nutrition Survey Data," *IEEE Symposium on Computational Intelligence and Data Mining,* Paris, France, April 2011.

[23] **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.

[24] **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

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

[26] **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

[27] 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

Junxiong Tang — Fall 2019–*Present*
Graduate student, Rensselaer Polytechnic Institute, Troy, NY

Shailesh Divey — Fall 2019
Graduate student, Rensselaer Polytechnic Institute, Troy, NY

Aditya Deotale — Fall 2018–Spring 2020
Graduate Student, Arizona State University, Tempe, AZ

Cameron Dudley — Fall 2017–Spring 2018
Undergraduate Student, Arizona State University, Tempe, AZ

SKILLSET

Programming Languages C, C++, JAVA, Python, Matlab, R

Techniques MySQL, Javascript, HTML, PHP, WEKA, multiple deep learning Python packages

SERVICE   **Organizer/Chair** – *Scientific Discovery with AI*
Diversity Series Workshop at **AAAI-2021** (https://sites.google.com/view/ai4be)

Senior Program Committee member ICWSM
Program Committee member WebConf, NAACL-HLT, ACL, ASONAM, SDM, WebSci
Journal Reviewer Transactions on the Web, Transactions on Social Computing
Data Analyst for IJCAI 2016
Volunteer Map Editor with USGS

PROFESSIONAL   **AIS, ACM, AAAI**
MEMBERSHIPS