

# Namrata Nadagouda

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## RESEARCH INTERESTS

Human-in-the-loop learning, learning from similarity comparisons, active learning, preference learning, representation learning

## EDUCATION

**Ph.D. Electrical & Computer Engineering** August 2019 - Present  
*Georgia Institute of Technology, Atlanta, GA*  
Advisor: Prof. Mark Davenport

**M.S. Electrical & Computer Engineering** December 2020  
*Georgia Institute of Technology, Atlanta, GA*

**B.Tech. Electrical & Electronics Engineering** May 2017  
*National Institute of Technology Karnataka, Surathkal, India*

## PUBLICATIONS

**N. Nadagouda**, Y. Teng and M. Davenport, “Active query synthesis for preference learning”, *In preparation*.

**N. Nadagouda**, A. Xu and M. Davenport, “Active metric learning and classification using similarity queries”, in *Uncertainty in Artificial Intelligence (UAI)*, August 2023. Also presented at Human in the Loop Learning Workshop, *Neural Information Processing Systems (NeurIPS)*, December 2022.

A. McRae, A. Xu, J. Jin, **N. Nadagouda**, N. Ahad, P. Guan, S. Karnik and M. Davenport, “Delta Distancing: A Lifting Approach to Localizing Items From User Comparisons”, in *Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP)*, May 2022.

**N. Nadagouda** and M. Davenport, “Switched Hawkes Processes”, in *Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP)*, June 2021.

G. Canal, M. Connor, J. Jin, **N. Nadagouda**, M. O’Shaughnessy, C. Rozell and M. Davenport, “The Picasso Algorithm for Bayesian Localization Via Paired Comparisons in a Union of Subspaces Model”, in *Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP)*, May 2020.

## ABSTRACTS

N. Ahad, **N. Nadagouda**, E. Dyer and M. Davenport, “Active learning for time instant classification”, at Data-centric Machine Learning Research Workshop, *International Conference on Machine Learning (ICML)*, July 2023.

Y. Teng, A. Mamuye, E. Mo, K. Zhu, R. Walker, **N. Nadagouda** and M. Davenport, “Range-Only Simultaneous Localization and Mapping using Paired Comparisons”, at *IEEE Annual Conf. on RFID*, April 2021.

**N. Nadagouda** and M. Davenport, “Switched Hawkes Processes”, at *Workshop on Recent Developments on Mathematical/Statistical approaches in Data Science (MS-DAS)*, University of Texas at Dallas, Richardson, TX, June 2019.

<b>ARTICLES</b>	N. Nadagouda, “Journey of a researcher: Finding pleasure in the pathless woods”, <i>American Ceramic Society Bulletin</i> , Student Perspectives, June/July 2020.	
<b>AWARDS</b>		
<b>Registration and Travel Awards</b>	Women in Data Science and Mathematics Workshop - IPAM	August 2023
	UAI registration funding	
	Deep Learning Theory Workshop and Summer School Simons Institute, University of California, Berkeley	August 2022
	Women and Math workshop, IAS, Princeton	May 2022
	ICML Diversity and Inclusion Fellowship	July 2020
	MSDAS Workshop, UTD	June 2019
<b>Hackathons</b>	Winner, Technical Track, Hacklytics Data Science at Georgia Tech	February 2019
<b>Academic Awards and Scholarships</b>	NITK Institute Gold Medal	2017
	1986 Batch Gold Medal	2017
	Prof. M. R. Shenoy Memorial Prize	2017
	Prof. K. M. Hebbar Gold Medal	2017
	NITK Surathkal Merit Scholarship	2013 - 2017
<b>WORKSHOPS ATTENDED</b>	Women in Data Science and Mathematics Institute for Pure and Applied Mathematics <i>University of California, Los Angeles</i>	August 2023
	Deep Learning Theory Workshop and Summer School <i>Simons Institute, University of California, Berkeley</i>	August 2022
	The Mathematics of Machine Learning Women and Math Program <i>Institute for Advanced Study, Princeton, NJ</i>	May 2022
	Algorithmic Learning Theory Mentoring Workshop <i>Online</i>	March 2022
	Foundation of Data Science Summer School <i>Georgia Institute of Technology, Atlanta, GA</i>	August 2019
	Recent Developments on Mathematical/Statistical approaches in Data Science <i>University of Texas at Dallas, Richardson, TX</i>	June 2019
	<b>Intern</b> <i>Hedge Fund Start-up, Atlanta, GA</i> Data management and data pre-processing of stock trade data & performance evaluation of trading algorithms	Summer 2018
	<b>Research Intern, Microarchitecture Research Lab</b> <i>Intel India - Intel Labs, Bangalore, India</i> Study and design of specialized hardware for Linear Algebra operations	Fall 2016
<b>WORK EXPERIENCE</b>		

	<b>Research Intern</b> <b>Department of Electrical Communication Engineering</b> <i>Indian Institute of Science, Bangalore, India</i> Target Self-Localization using Beacon Nodes	Summer 2016
<b>TEACHING EXPERIENCE</b>	<b>Mentor for undergraduate students</b> Yue Teng Amran Mamuye, Eunsan Mo, Kerui Zhu, Robert Walker	2020 - present 2020 - 2021
	<b>Graduate Teaching Assistant</b> Georgia Tech ECE 6270 - Convex Optimization	Spring 2021
	<b>Teaching Assistant</b> Hands-on-Tech Georgia Tech Day Camp - Machine Learning	June 2019
	<b>Graduate Teaching Assistant</b> Georgia Tech CS 4641 - Machine Learning	Spring 2019
	<b>Graduate Teaching Assistant</b> Georgia Tech ECE 8843/ISYE 8843/CS 8803/BMED 8813 - Mathematical Foundations of Machine Learning	Fall 2018
<b>SERVICE</b>	<b>Member</b> , GT Mural Team	2022
	<b>Reviewer</b> , AISTats Conference	2021
	<b>Reviewer</b> , GT President's Undergraduate Research Award	2021 - 2022
	<b>Teaching Volunteer</b> , Shiksha, ACM NITK Student Chapter	2016
	<b>Student Representative</b> , NITK Student Council	2013 - 2014