Namrata Nadagouda

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Website: https://nnadagouda95.github.io

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.

POSTERS

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 (MSDAS)*, University of Texas at Dallas, Richardson, TX, June 2019.

ARTICLES

N. Nadagouda, "Journey of a researcher: Finding pleasure in the pathless woods", *American Ceramic Society Bulletin*, Student Perspectives, June/July 2020.

AWARDS

Registration and Travel Awards

Deep Learning Theory Workshop and Summer School — August 2022
Simons Institute, University of California, Berkeley

Women and Math workshop, IAS, Princeton — May 2022
ICML Diversity and Inclusion Fellowship — July 2020
MSDAS Workshop, UTD — June 2019

Hackathons

Winner, Technical Track, Hacklytics — February 2019
Data Science at Georgia Tech

Academic Awards and Scholarships

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

WORKSHOPS ATTENDED

Deep Learning Theory Workshop and Summer School — August 2022
Simons Institute, University of California, Berkeley

The Mathematics of Machine Learning — May 2022
Women and Math Program
Institute for Advanced Study, Princeton, NJ

Algorithmic Learning Theory — March 2022
Mentoring Workshop
Online

Foundation of Data Science Summer School — August 2019
Georgia Institute of Technology, Atlanta, GA

Recent Developments on Mathematical/Statistical approaches in Data Science — June 2019
University of Texas at Dallas, Richardson, TX

WORK EXPERIENCE

Intern — Summer 2018
Hedge Fund Start-up, Atlanta, GA
Data management and data pre-processing of stock trade data & performance evaluation of trading algorithms

Research Intern, Microarchitecture Research Lab — Fall 2016
Intel India - Intel Labs, Bangalore, India
Study and design of specialized hardware for Linear Algebra operations

Research Intern — Summer 2016
Department of Electrical Communication Engineering
Indian Institute of Science, Bangalore, India
Target Self-Localization using Beacon Nodes

TEACHING EXPERIENCE

Mentor for undergraduate students
Yue Teng — 2020 - present
Amran Mamuye, Eunsan Mo, Kerui Zhu, Robert Walker — 2020 - 2021

Graduate Teaching Assistant Spring 2021
Georgia Tech ECE 6270 - Convex Optimization

Teaching Assistant June 2019
Hands-on-Tech Georgia Tech Day Camp - Machine Learning

Graduate Teaching Assistant Spring 2019
Georgia Tech CS 4641 - Machine Learning

Graduate Teaching Assistant Fall 2018
Georgia Tech ECE 8843/ISYE 8843/CS 8803/BMED 8813 -
Mathematical Foundations of Machine Learning

SERVICE

Member, GT Mural Team 2022
Reviewer, AIStats Conference 2021
Reviewer, GT President's Undergraduate Research Award 2021 - 2022
Teaching Volunteer, Shiksha, ACM NITK Student Chapter 2016
Student Representative, NITK Student Council 2013 - 2014