

Arihant Yadav

516-543-1169 | arihant.yadav@ufl.edu | [linkedin.com/in/arihant-yadav](https://www.linkedin.com/in/arihant-yadav) | [Google Scholar](https://scholar.google.com/citations?user=arihant-yadav)

EDUCATION

University of Florida

Doctor of Philosophy in Human Centered Computing

Gainesville, FL

August 2024 - Present

Columbia University

Masters in Mechanical Engineering

New York, NY

August 2022 - December 2023

- Concentration in Robotics and Control

EXPERIENCE

Research Assistant

University of Florida

August 2024 – Present

Gainesville, FL

- Research assistant at the Jain Lab, advised by [Dr. Eakta Jain](#)
- Working in collaboration with Seattle Children's Hospital on the [AVAIL Project](#)
- Developing algorithms to effectively privatize audio data collected from target population

Research Intern

Robotics and AI Institute (formerly The Boston Dynamics AI Institute)

January 2024 – August 2024

Cambridge, MA

- Research intern in the Robotics, Ethics, and Society (RES) Team, under [Dr. Kate Darling](#)
- Developed and conducted a Human-Robot Interaction study with 40+ participants
- Implemented 'behaviors' on Boston Dynamics' Spot platform using ROS2, and RAI's in house SDK, simulating good and bad behaviors based on [human-animal interaction paradigms](#)

Teaching Assistant, Research Assistant

Columbia University

August 2022 - December 2023

New York, NY

- Research assistant at the [Robotics and Rehabilitation \(RoAR\) Lab](#).
- Worked on motion data capture from target populations (older adults, spinal cord injury patients) using VICON system, and analyzed said data in my roles as an RA
- Teaching assistant for MECE 3450: Computer Aided Design and MECE 6400: Advanced Machine Dynamics

PUBLICATIONS

- [1] **Yadav, A.**, Rajagopalan, S., Purohit, A., Singh, J. (2023). Variable dropout one-dimensional CNN for vibration-based shaft unbalance detection in industrial machinery. *Journal of Vibration Engineering Technologies*, 11(1), 301-318.
- [2] Adeniyi, A., Stramel, D. M., Rahman, D., Rahman, M., **Yadav, A.**, Zhou, J., ... Agrawal, S. K. (2023). Utilizing mobile robotics for pelvic perturbations to improve balance and cognitive performance in older adults: a randomized controlled trial. *Scientific reports*, 13(1), 19381.

SKILLS

- **Computer-Aided Design:** SolidWorks, Creo, OnShape
- **Data Processing:** Numpy, Pytorch, Keras, TensorFlow, Image Processing (OpenCV, Simulink, Pillow), Audio Processing (Librosa, Praat)
- **Finite Element Analysis:** ANSYS, ADAMS
- **Programming:** C, C++, Python
- **Microcontrollers:** Arduino, Raspberry Pi
- **Modelling and Simulation:** ROS/ROS2, Pybullet, Isaac Gym

SERVICE

1. Reviewer for Transactions on Applied Perception (TAP)

2025