ROHIT GIRIDHARAN

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20302 Kiawah Island Drive
Ashburn, VA 20147

EDUCATION

B.S. in Electrical Engineering and Computer Science Expected 2022
Yale University
Member of Phi Beta Kappa and Tau Beta Pi
Current GPA: 4.0/4.0

RESEARCH EXPERIENCE

Research Assistant Sep 2019 —
Social Robotics Lab, Yale University
New Haven, CT

- Member of research team working to develop robotics that aid adults with autism by training them to deal with interruptions, with the ultimate goal of making them more employable
- Developed the feature for the robot to randomly prompt users with interruptions using hardware (Azure Kinect, external CPUs, etc), and software (Python, ROS)
- Member of the team that worked on deployment and remote maintenance of in-home systems for over 15 participants over 4 months
- Published at the 2022 ACM/IEEE International Conference on Human-Robot Interaction
  - Received Honorable Mention for Best Systems Paper

TEACHING EXPERIENCE

Undergraduate Learning Assistant (CS323) Sep 2021 — Dec 2021
Department of Computer Science, Yale University
New Haven, CT

- Undergraduate Learning Assistant for Computer Science 323: Introduction to Systems Programming and Computer Organization, taken by ~150 students
- Work directly with students to explain key concepts and debug code
- Host 6+ hours of office hours per week in both queue- and appointment-based formats

Undergraduate Learning Assistant (CS365) Jan 2022 —
Department of Computer Science, Yale University
New Haven, CT

- Undergraduate Learning Assistant for Computer Science 365: Algorithms, taken by ~180 students
- Work directly with students to explain key concepts and give problem-solving techniques
- Responsibilities include holding office hours, discussion section, and grading assignments

PROFESSIONAL EXPERIENCE

Product Development Intern Jun 2021 — Aug 2021
Ford Motor Company
Dearborn, MI

- Developed Python modules to analyze results of thermal battery pack testing and generate reports
- Using techniques like uncertainty analysis, explored approaches to improve confidence in thermal calculations
- Benchmarked data sourcing techniques for experiments analysis to improve efficiency
- Modernized a data processing application used by >35 engineers and reduced the time to create plots by ~30x

Product Development Intern Jun 2020 — Aug 2020
Ford Motor Company
Dearborn, MI

- Processed and analyzed high volumes of data from HV Battery tests using Python
- Streamlined and automated creation of PowerPoint data reports using Python
- Improved Python data processing scripts, used by 20+ employees by adding functionality to improve usability and robustness
- Designed and developed a Python program to resolve a discrepancy in HV Battery data

SKILLS

Technical Skills:

- Proficient in C/C++ and Python
- Proficient in Microsoft Office (Excel, Word, Powerpoint)
- Skilled in R, Java, MatLab, and AutoCAD
- Foundational experience with SolidWorks and video editing (Adobe Premiere Pro)

Other Skills:

- Self starter capable of team collaboration as well as working independently
- Highly organized and efficient work habits
- Skilled in creating effective visual representations of data
- Conversational in French

CLUBS/INTERESTS

- Section Leader of Davenport Pops Orchestra
- Vice President of Congressional Engagement of Students for Carbon Dividends at Yale
- Member of Yale Aerospace Association
- Skilled violinist and vocalist with over 15 years of experience
- Hiker and outdoor enthusiast

AWARDS/HONORS

- Member of Phi Beta Kappa Honor Society
- Member of Tau Beta Pi Honor Society
- Honorable Mention for Best Systems Paper, 2022 ACM/IEEE HRI Conference
- National Merit Scholarship Finalist

PUBLICATIONS

R. Ramnauth, E. Adeniran, T. Adamson, M. Lewkowicz, **R. Giridharan**, C. Reiner & B. Scassellati (2022). A Social Robot for Improving Interruptions Tolerance and Employability in Adults with ASD. Proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction. ACM.