

RAJAT KUMAR JENAMANI

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I'm a final-year Ph.D. candidate at Cornell, building learning-based robots that perform useful real-world tasks with and around humans over the long term. My work has earned awards at top robotics venues (RSS, HRI, ICRA, IROS).

EDUCATION

Cornell University

Ph.D. in Computer Science

GPA 4.13/4.0

2021 - Present

Advisor: [Tapomayukh Bhattacharjee](#)

Indian Institute of Technology Kharagpur

B. Tech. in Computer Science and Engineering

GPA 9.68/10.0 (2nd highest in the CS graduating class)

2017 - 2021

Advisor: [Partha P. Chakrabarti](#)

EXPERIENCE

EmPRISE Lab, Cornell University - PhD Student

Deploying Physical Caregiving Robots that Personalize

Aug 2021 - Present

Advisor: [Tapomayukh Bhattacharjee](#)

Robotics and AI Institute - Research Scientist Intern

Memory in Visuomotor Learning + Steering Pretrained Generalist Policies

May 2025 - Present

Manager: [David Watkins](#)

Stanford Artificial Intelligence Lab - Visiting Student Researcher

Long-Horizon Task Planning for Food Acquisition Leveraging Foundation Models

Jun - Aug 2023

Advisor: [Dorsa Sadigh](#)

Microsoft - Software Engineering Intern

Automating Outlook Actionable Messages Approval

May - July 2020

Team: Office 365 Ecosystem Team (India)

Search Based Planning Lab, Carnegie Mellon University - Research Intern

Task and Motion Planning with Selective Physics-Based Simulations

May - July 2020

Advisor: [Maxim Likhachev](#)

Personal Robotics Lab, University of Washington - Research Intern

Multi-Agent Motion Planning for Robotic Arms

May - July 2019

Advisor: [Siddhartha Srinivasa](#)

AWARDS

Best Paper Award, RSS 2025

HRI Pioneer, HRI 2025

Finalist for Best Paper Award / Best Student Paper Award, ICRA 2025

Best Demo Award, HRI 2024

Best Paper Honorable Mention, HRI 2024

Cornell University Outstanding TA Award, 2024 for Robot Manipulation

Cornell University Outstanding TA Award, 2023 for Foundations of Robotics

Best RoboCup Paper Award and Finalist for Best Paper Award / Best Student Paper Award, IROS 2022

Cornell University Ph.D. Fellowship 2021-22

Best Undergraduate Thesis Award 2021 - CS, IIT Kharagpur

Student Par Excellence Award 2020 - CS, IIT Kharagpur

Tower Research Capital India Merit Scholarship 2020

SELECTED PUBLICATIONS

(* denotes equal contribution)

Scaling Short-Term Memory of Visuomotor Policies for Long-Horizon Tasks

by R. Shah, [R. K. Jenamani](#), X. Zhang, L. Sun, R. Martín-Martín, Y. Zhu, D. Ramanan, K. Schmeckpeper

In *Submission*, 2026

FEAST: A Flexible Mealtime-Assistance System Towards In-the-Wild Personalization

by R. K. Jenamani, et al.

In *Robotics: Science & Systems (RSS)*, 2025

Best Paper Award

Human-in-the-loop Contextual Bandits with Applications in Robot-Assisted Feeding

by R. Banerjee, R. K. Jenamani*, S. Vasudev*, A. Nanavati, S. Dean, T. Bhattacharjee

In *IEEE International Conference on Robotics and Automation (ICRA)*, 2025

Finalist for Best Paper Award / Best Student Paper Award

An Adaptable, Safe, and Portable Robot-Assisted Feeding System

by E. K. Gordon*, R. K. Jenamani*, A. Nanavati*, et al.

In *Companion of ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, 2024

Best Demo Award

Feel the Bite: Robot-Assisted Inside-Mouth Bite Transfer using Robust Mouth Perception and Physical Interaction-Aware Control

by R. K. Jenamani, D. Stabile, Z. Liu, A. Anwar, K. Dimitropoulou, T. Bhattacharjee

In *ACM/IEEE International Conference on Human-Robot Interaction (HRI)*, 2024

Best Paper Award Honorable Mention

RCareWorld: A Human-centric Simulation World for Caregiving Robots

by R. Ye*, W. Xu*, H. Fu, R. K. Jenamani, V. Nguyen, C. Lu, K. Dimitropoulou and T. Bhattacharjee

In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2022

Best RoboCup Paper Award Winner, Finalist for Best Paper Award / Best Student Paper Award

Optimal Multi-Agent Pathfinding for Non-Unit Edge Costs and Precedence Constrained Tasks

by R. K. Jenamani

B. Tech. Thesis - IIT Kharagpur

Best Undergraduate Thesis Award - CS, IIT Kharagpur

Teaching / Service

Physical Caregiving Robots Workshop, HRI 2025 - Organizer

caregivingrobots.github.io

Convened key stakeholders in physical caregiving robots—robotics researchers, care recipients, caregivers, and occupational therapists—to foster interdisciplinary collaborations. Launched a community newsletter.

Robot Manipulation 2024 - Teaching Assistant

cs.cornell.edu/courses/cs6751/2024sp

Prepared lectures materials, taught select sessions, organized and evaluated student presentations of representative papers in the field, and mentored 20 students working in six teams on real robot projects.

Outstanding TA Award

Foundations of Robotics 2022 - Teaching Assistant

cs.cornell.edu/courses/cs5750/2022fa

Created and graded assignments on ROS, robot kinematics, state estimation, motion planning and feedback control for a class of about 100 students. Held weekly office hours.

Outstanding TA Award

SoNIC Workshop 2022 - Organizer

diversity.cis.cornell.edu/programs/sonic/

Organized the SoNIC Workshop with the aim to inspire underrepresented students to pursue graduate studies in STEM. Helped participants develop "smart canes" – assistive technology for the visually impaired.

PRESS

Robotic system feeds people with severe mobility limitations [[Cornell Chronicle](#)]

A team is developing robotic arms to feed people with spinal injuries [[Interesting Engineering](#)]

Novice roboticists find inspiration, community at SoNIC [[Cornell Chronicle](#)]

Caregiving robots at Cornell [[Cornell Chronicle](#), [Spectrum](#)]

Caregiving simulator advances research in assistive robotics [[TechXplore](#), [Cornell Chronicle](#), [Spectrum](#)]
