

Returaj Burnwal

Indian Institute of Technology Madras

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Education

Indian Institute of Technology Madras

PHD COMPUTER SCIENCE AND ENGINEERING

- GPA: 9.4/10
- Advisor: Prof. B. Ravindran, Prof. Nirav P. Bhatt

Chennai, India

2022 - present

Indian Institute of Technology Hyderabad

BTech ELECTRICAL ENGINEERING

- GPA: 9.16 / 10
- Undergrad research advisor: Prof. Soumya Jana

Hyderabad, India

2012 - 2016

Professional Experience

2023 **Sakura Science Program**, University of Tokyo, Japan

2022-2023 **Student Researcher**, Google Research, India

2021-2022 **Post Baccalaureate**, Indian Institute of Technology Madras, India

2016-2020 **Software Engineer**, Yahoo!Japan, Japan

2015 **Research Intern**, Uurmi Systems, India

Publications

PEER-REVIEWED ARTICLES

OSIL: LEARNING OFFLINE SAFE IMITATION POLICIES WITH SAFETY INFERRED FROM NON-PREFERRED TRAJECTORIES.

R Burnwal, NP Bhatt, B Ravindran

Autonomous Agents and Multi-Agent Systems (AAMAS), 2026

SAFEMIL: LEARNING OFFLINE SAFE IMITATION POLICY FROM NON-PREFERRED TRAJECTORIES.

R Burnwal, NP Bhatt, B Ravindran

Association for the Advancement of Artificial Intelligence (AAAI), 2026

GAN-MPC: TRAINING MODEL PREDICTIVE CONTROLLERS WITH PARAMETERIZED COST FUNCTIONS USING DEMONSTRATIONS FROM NON-IDENTICAL EXPERTS.

R Burnwal, A Santara, NP Bhatt, B Ravindran, G Aggarwal

Robotics: Science and Systems (RSS) Workshop, 2023 ([Spotlight](#))

IN REVIEW

Learning from Observation: A Survey of Recent Advances

R Burnwal, H Mehta, NP Bhatt, B Ravindran, 2025

Presentations

INVITED TALKS & POSTERS

2024. WADHWANI SCHOOL OF DATA SCIENCE AND AI, IIT Madras, India. SafeMIL: Learning Offline Safe Imitation Policy.

2023. AMAZON RESEARCH DAYS, Bangalore, India. GAN-MPC: Learning from Non-Identical Experts.

2023. 3RD RBCDSAI CONFERENCE OF DEPLOYABLE AI, India. GAN-MPC: Learning from Non-Identical Experts.

Awards & Fellowships

- 2026 **Student Travel Grant, AAAI**
- 2023 **Teaching Assistance Award**, Department of Computer Science, IIT Madras
- 2023 **Prime Minister Research Fellowship**, Ministry of Education, India
- 2016 **3rd in Hackday**, Yahoo! Japan
- 2014 **Academic Excellence Award**, IIT Hyderabad
- 2012-2016 **Merit-Cum Mean Scholarship**, (Fully covers academic fees), IIT Hyderabad
- 2011 **2nd in Regional Mathematical Olympiad**, Jharkhand, India

Mentoring

- 2025- **Adithyaa RG**, BTech, IIT Madras
- 2024-2025 **Hriday Mehta**, BTech, NIT Surathkal →MS, University of Alberta

Teaching Experience

- 2025-2023 **Reinforcement Learning**, Graduate Teaching Assistant
- 2022 **Big Data Laboratory**, Graduate Teaching Assistant
- 2022 **Problem Solving using Computers**, Undergrad Teaching Assistant

Outreach & Other Responsibilities

- 2014-2015 **Head Coordinator Robotics Club**, IIT Hyderabad