

Sustainability Lab

Advancing computational sustainability through machine learning, sensing technologies, and data-driven research

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

Open positions:

PhD Scholars

Postdocs

Research Associates/JRF

Research Interns

PUBLISHED AT

NeurIPS

AAAI

UbiComp

IMWUT

KDD

BuildSys

CSCW

JCSS

RECENT RECOGNITION

SIGEnergy Rising Star Award

Prof. Nipun Batra, 2025

Test of Time Award (NILMTK)

Prof. Nipun Batra, 2025

Microsoft Research PhD Award

Zeel B Patel, 2024

Heidelberg Laureate Forum

Rishiraj Adhikary, 2024

Fulbright-Nehru Fellowship

Rishiraj Adhikary, 2022

UbiComp Borriello Award Finalist

Rishiraj Adhikary, 2023

President's Gold Medal (MTech)

Ankita Jain, 2023

Prime Minister Research Fellowship

Rishiraj Adhikary

WHAT WE WORK ON

Air Quality & Climate

Satellite CV for pollution monitoring, LLM-based policy decision support

NeurIPS '23 '25, AAAI '26, JCSS '25

Health Sensing

Thermal imaging, wearables, respiratory monitoring

UbiComp '24, ACM Health '23

Energy Analytics

NILM, smart grid optimization, time-series forecasting

Test of Time Award 2025 (NILMTK)

Foundation Models

LLMs, VLMs, and multi-modal ML for sustainability

Emerging research area

Tech:

LLMs

VLMs

Foundation Models

Gaussian Processes

Deep Learning

Time-Series

COMPUTING INFRASTRUCTURE

4x NVIDIA A100 (80GB) | 2x RTX A5000 | 2x RTX A4000 | RTX A2000 | Titan XP

Dedicated resources for lab members - train large models locally

ALUMNI ACHIEVEMENTS

Our alumni span top industry labs, global PhD programs, and competitive fellowships.

INDUSTRY POSITIONS

- Google DeepMind
- Microsoft Research
- Oracle
- Salesforce
- CRED
- Skan.ai

GRADUATE PROGRAMS

- PhD at UMass Amherst
- PhD at IIT Gandhinagar
- MS at Carnegie Mellon University
- MS at UC San Diego
- MS at New York University
- MS at California Institute of Technology
- MS at ETH Zurich

FELLOWSHIPS & AWARDS

- Fulbright Fellowship
- Microsoft Research PhD Award
- Prime Minister Research Fellowship
- Outstanding Research Gold Medal
- Heidelberg Laureate Forum

Ready to Join Our Research?

Who should join

- PhD/MS/BTech students interested in ML + real-world impact
- Strong foundations in ML, CV, time-series, or systems
- Motivation to publish at top venues (NeurIPS, AAAI, UbiComp, JCSS)

What you get

- Top-tier publications + datasets with real-world deployment
- Policy-facing impact (government partnerships)
- Strong alumni outcomes (Google DeepMind, CMU, ETH Zurich, fellowships)

Join a lab focused on high-quality research that creates real-world impact. We emphasize collaborative work, rigorous methodology, and meaningful contributions to sustainability.

Contact Prof. Nipun Batra

Visit Our Website

How to apply: Email with CV, transcript, and a short paragraph on your research interests. No formal deadline — we recruit year-round.

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