

Rishiraj Adhikary

PH.D. CANDIDATE, IIT GANDHINAGAR

Room 307-A, Building-4, IIT Gandhinagar, Gandhinagar, Gujarat

✉ rishiraj.a@iitgn.ac.in | 🌐 rishi-a.github.io | 📷 rishi-a | 📺 rishiraj-in

Education

Fulbright Visiting Researcher

August 2022 - May 2023

Host Advisor: Prof. Mayank Goel
Carnegie Mellon University, Pittsburgh, PA, USA

Pursuing Ph.D. in Computer Science (Prime Ministers' Research Fellow)

August 2019 - to date

Advisor: Prof. Nipun Batra
IIT Gandhinagar, Gujarat, India
Current CPI: 8.72

BTech in Electronics and Communication

August 2011 - August 2015

Gauhati University, Assam, India
CGPA: 8.19

Publications

A* or A conferences as per 2020 CORE Computer Science rankings are highlighted using *

1. **Rishiraj Adhikary**, Tanmay Srivastava, Prerna Khanna, Abas Asit Senapati, and Nipun Batra
Naqaab: Towards health sensing and persuasion via masks
* Ubicomp/ISWC Adjunct Proceedings 2020
<https://dl.acm.org/doi/abs/10.1145/3410530.3414403>
2. **Rishiraj Adhikary**, and Nipun Batra
Do we breathe the same air?
* Ubicomp/ISWC Adjunct Proceedings 2020
<https://dl.acm.org/doi/10.1145/3410530.3414414>
3. **Rishiraj Adhikary**, and Nipun Batra
Computational Tools for Understanding Air Pollution
* Ubicomp/ISWC Adjunct Proceedings 2020 (Doctoral Colloquium)
<https://dl.acm.org/doi/10.1145/3410530.3414327>
4. **Rishiraj Adhikary**, Zeel patel, Tanmay Srivastava, Nipun Batra, Mayank Singh, Udit Bhatia, Sarath Guttikunda
Vartalaap: What Drives AirQuality Discussions: Politics, Pollution or Pseudo-science
* CSCW Proceedings 2021
<https://dl.acm.org/doi/10.1145/3449170>
5. **Rishiraj Adhikary**, Soham Pachpande, Nipun Batra
Lessons from large scale campus deployment
The 3rd International SenSys+BuildSys Workshop on Data: Acquisition to Analysis (DATA '20)
<https://dl.acm.org/doi/10.1145/3419016.3431490>
6. Rachna Pathak, Shalu Agrawal, **Rishiraj Adhikary**, Nipun Batra, and Karthik Ganesan
Poster Abstract: Impact of COVID19 lockdown on household energy consumption on two Indian cities
* SenSys '20
<https://dl.acm.org/doi/10.1145/3384419.3430453>
7. **Rishiraj Adhikary**, Prerna Khanna, Tanmay Srivastava, Rohit Patil, Jacob Peplinski, Joe Breda, Nipun Batra, and Shwetak Patel
SpiroMask: Measuring Lung Function Using Consumer-Grade Masks
ACM Transactions on Computing for Healthcare (HEALTH '23)
<https://doi.org/10.1145/3570167>
8. Karm Patel, **Rishiraj Adhikary**, Zeel Patel, Nipun Batra, and Sarath Guttikunda
Samachar: News Media on Air Pollution in India
ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS '22)
<https://doi.org/10.1145/3530190.3534812>

9. Kukunuri Rithwik, **Rishiraj Adhikary**, Mahika Om Jaguste, Nipun Batra, and Ashish Tendulkar
Exploring Hidden Markov Model
Visualization for AI Explainability (IEEE VISxAI) 2021
<https://nipunbatra.github.io/hmm/>

Service and Invited Talks

- December 2022: **Reviewer** Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
- April 2022: **Reviewer** ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS 2022)
- October 2021: **Member** Technical committee member (TPC), for the 4th workshop on Data: Acquisition to Analysis.
- September 2021 and September 2020: **Volunteer** at the ACM International Joint Conference on Pervasive and Ubiquitous Computing and 2020 ACM International Symposium on Wearable Computers.
- April 2021: **Invited Talk** on “Mobile Computing In Health” during GUJCOST sponsored 3-day workshop on “IoT and Wearable Technology.” at Sarvajani College of Engineering Technology.
- March 2021: **Shadow Program Chair** at the ACM COMPASS 2021
- February 2019: **Volunteer** at the 14th Inter-Research-Institute Student Seminar in Computer Science and ACM India Annual Event at IIT Gandhinagar, Gujarat, India.

Teaching Experience

Machine Learning

Teaching Assistant at IIT Gandhinagar and DAICT, Gujarat, India

Spring 2022

Machine Learning

Teaching Assistant at IIT Gandhinagar, Gujarat, India

Spring 2021

Operating System

Guest Lecturer and Teaching Assistant at IIT Gandhinagar, Gujarat, India

Fall 2019 and Fall 2020

Programming in C

Graduate Teaching Assistant at IIIT Sricity, Andhra Pradesh, India

Spring 2018