

Rishiraj Adhikary

PH.D. STUDENT, IIT GANDHINAGAR

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Vision and Interest

My vision is to develop preventive, continual healthcare systems to reduce deaths caused due to air pollution and respiratory illness.

Education

Pursuing Ph.D. in Computer Science

August 2019 - to date

IIT Gandhinagar, Gujarat, India

Advisor: Prof. Nipun Batra

Current CPI: **8.52**

BTech in Electronics and Communication

August 2011 - August 2015

Gauhati University, Assam, India

CGPA: 8.19

HSC

April 2010

Miles Bronson Residential School, Guwahati, Assam, India

Percentage: 86.6

SSC

April 2008

Kendriya Vidyalaya Laitkor Peak, Shillong, Meghalaya, India

Percentage: 81.1

Fellowships

1. Fulbright-Nehru Doctoral Research Fellowship 2022-2023
2. Prime Minister's Research Fellowship (May 2021 Cycle)

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 [To Appear]
* 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 [Under Review]
8. Karm Patel, **Rishiraj Adhikary**, Zeel Patel, Nipun Batra, and Sarath Guttikunda
Samachar: News Media on Air Pollution in India [Under Review]
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

- October 2021: **Member** Technical committee member (TPC), for the 4th workshop on Data: Acquisition to Analysis.
- July 2021: **Volunteer** I will be a student volunteer at ACM IMWUT/Ubicomp'21
- April 2021: **Invited Talk** on "Mobile Computing In Health" during GUJCOST sponsored 3-day workshop on "IoT and Wearable Technology." at Sarvajanic College of Engineering Technology.
- March 2021: **Shadow Program Chair** at the ACM COMPASS 2021
- September 2020: **Student Volunteer** at the ACM International Joint Conference on Pervasive and Ubiquitous Computing and 2020 ACM International Symposium on Wearable Computers.
- 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, 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

Work Experience

Visiting Fellow Council of Energy, Environment and Water (CEEW), New Delhi, India	December 2019 (During Winter Break)
Junior Research Fellow IIT Gandhinagar, Gujarat, India Advisor: Prof. Nipun Batra	March 2019 - June 2019
UI/UX Contract Worker Remote Service	July 2016 - February 2018
Front End Web Developer Avantix Innovation, Guwahati, Assam, India	January 2016 - June 2016
UI/UX Intern Bisect Online Solutions, Guwahati, Assam	September 2015 - December 2015