

# 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

## 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**, Perna 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

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- October 2021: **Member** Technical committee member (TPC), for the 4<sup>th</sup> 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 Sarvajani 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.
- March 2016: **Resource Person** at Electronics workshop of Gauhati University Technical Festival, Guwahati, Assam, India.
- February 2014: **Organizer** of Robotics Workshop at the Gauhati University Technical Festival, Guwahati, Assam, India

## Teaching Experience

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<b>Machine Learning</b> Teaching Assistant at IIT Gandhinagar, Gujarat, India	Spring 2021
<b>Operating System</b> Guest Lecturer and Teaching Assistant at IIT Gandhinagar, Gujarat, India	Fall 2019 and Fall 2020
<b>Programming in C</b> Graduate Teaching Assistant at IIIT Sricity, Andhra Pradesh, India	Spring 2018

## Work Experience

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