Rishiraj Adhikary

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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: 7.86

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 Adjunt 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 Adjunt 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 Adjunt 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 Masks [Under Review]
   * Ubicomp/ISWC '21

Service and Invited Talks

- July 2: **Volunteer** I will be a student volunteer at Ubicomp'21

- April 2021: **Invited Talk** on"Mobile Computing In Health" during GUJCOST sponsored 3-day workshop on "IoT and Wearable Technology." at Sarvajanik 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

Machine Learning   Spring 2021
Teaching Assistant at IIT Gandhinagar, Gujarat, India

Operating System   Fall 2019 and Fall 2020
Guest Lecturer and Teaching Assistant at IIT Gandhinagar, Gujarat, India

Programming in C   Spring 2018
Graduate Teaching Assistant at IIIT Sricity, Andhra Pradesh, India

Work Experience

Visiting Fellow   December 2019 (During Winter Break)
Council of Energy, Environment and Water (CEEW), New Delhi, India

Junior Research Fellow   March 2019 - June 2019
IIT Gandhinagar, Gujarat, India
Advisor: Prof. Nipun Batra

UI/UX Contract Worker   July 2016 - February 2018
Remote Service

Front End Web Developer   January 2016 - June 2016
Avantix Innovation, Guwahati, Assam, India

UI/UX Intern   September 2015 - December 2015
Bisect Online Solutions, Guwahati, Assam