Rishiraj Adhikary

Ph.D. CANDIDATE, IIT GANDHINAGAR

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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: 8.76

BTech in Electronics and Communication

August 2011 - August 2015

Gauhati University, Assam, India CGPA: 8.19

Publications _____

1. Rishiraj Adhikary, Maite Sadeh, Nipun Batra, Mayank Goel

JoulesEye: Energy Expenditure Estimation and Respiration Sensing From Thermal Imagery while Exercising ACM Transactions on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT '24)

https://dl.acm.org/doi/abs/10.1145/3631422

2. **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

3. Rishiraj Adhikary, Aryan Varshney, Nipun Batra

Towards Continuous Respiration Rate Detection While Walking

* Ubicomp/ISWC Adjunt Proceedings 2022

https://doi.org/10.1145/3570167

4. 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)

 $\mathtt{https://doi.org/10.1145/3530190.3534812}$

5. 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

6. 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

7. 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

8. **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

MAY 8, 2024 RISHIRAJ ADHIKARY

9. 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

 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

11. 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/

Awards and Fellowships_

- 1. Selected To Participate In The 11th Heidelberg Laureate Forum
- 2. UbiComp Gaetano Borriello Outstanding Student Award (Top 3)
- 3. Fulbright-Nehru Doctoral Research Fellowship 2022-2023
- 4. Prime Minister's Research Fellowship, India (May 2021 Cycle)
- 5. Best poster award in PhD Research Showcase at IIT Gandhinagar (2023).

Service and Invited Talks ____

- December 2022, February 2024: **Reviewer** Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (ACM IMWUT)
- December 2023 **Member** Technical committee member (TPC), for the IEEE COMSNETS NetHealth Workshop.
- October 2023 Reviewer Proceedings of the ACM on Computer Human Intereaction (ACM CHI)
- April 2022: **Reviewer** ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS 2022)
- October 2021: **Member** Technical committee member (TPC), for the 4^{th} 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 Sarvajanik 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.

MAY 8, 2024 RISHIRAJ ADHIKARY