

Mobile and Ubiquitous Computing Ph.D. Lab, Indraprastha Institue of Information Technology Delhi, New Delhi 110020

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Indraprashta Institute of Information Technology Delhi

Delhi, India

Ph.D. Scholar, Computer Science (GPA 9.3/10)

Jan 2012-Present Delhi, India

Delhi College of Engineering BACHELORS OF ENGINEERING (HONS.), COMPUTER SCIENCE (GPA 9/10)

Jul 2007 -April 2011

Honors & Awards _____

2015	Best presentation award, Sensys 2015 Doctoral Colloqium	Seoul, South Korea
2015	ACM Travel Grant, Sensys 2015	Seoul, South Korea
2014	Best demo award, Buildsys 2014	Memphis, USA
2014	ACM Travel Grant, eEnergy 2014	Cambridge, UK
2012	PhD Fellowship, TCS Research and Development	
2012	Travel and Lodging grant, Microsoft Research Summer School	Bangalore, India
2010	Systems engineering prize barrel, AUVSI's student UAS competition	Maryland, USA
2009	Young scientist travel grant, Department of Science and Technology (Govt. of India)	Delhi, India
2009	Director's award for best effort, AUVSI's student UAS competition	Maryland, USA

Research Experience _____

IIIT Delhi Delhi, India

GRADUATE RESEARCH ASSISTANT

Charlottesville, Virginia, USA

University of Virginia (under Prof. Kamin Whitehouse)

Jul. 2014 - Apr. 2015

Linux Android Network Systems Lab., DCE

Delhi, India

Jan. 2012 - Present

Undergraduate Research Intern

Dec. 2010 - Jun. 2011

Unmanned Aircraft Systems Lab., DCE

Delhi, India

Undergraduate Research Engineering Intern

Dec. 2008 - Jul. 2010

Industrial Experience _____

Royal Bank of Scotland

Gurgaon, India SOFTWARE ANALYST Jun. 2011 - Nov. 2011 **Goldman Sachs** Bangalore, India

ENGINEERING INTERN Jun. 2010 - Aug. 2010

Invited Talks _____

VISITING RESEARCHER

University of Pennsylvania, If you can measure it, can you improve it? Philadelphia, USA

Carnegie Mellon University, If you can measure it, can you improve it? Pittsburgh, USA

Professional Service

Steering committee, 3rd International NILM workshop

Program committee, 2nd International NILM workshop

Austin, Texas, USA

External reviewer, Buildsys 2015, Ubicomp 2015, E-Energy 2015, E-Energy 2014, ASONAM 2013,

E-Energy 2013, ICDM 2013, Buildsys 2013

Publications

Conferences

- [C1] Nipun Batra, Amarjeet Singh, and Kamin Whitehouse. "If You Measure It, Can You Improve It? Exploring The Value of Energy Disaggregation". In: Proceedings of the second ACM International Conference on Embedded Systems For Energy-Efficient Built Environments. ACM. 2015.
- [C1] Nipun Batra, Jack Kelly, Oliver Parson, Haimonti Dutta, William Knottenbelt, Alex Rogers, Amarjeet Singh, and Mani Srivastava. "NILMTK: an open source toolkit for non-intrusive load monitoring". In: *Proceedings of the 5th international conference on Future energy systems*. ACM. 2014, pp. 265–276.
- [C1] Nipun Batra, Pandarasamy Arjunan, Amarjeet Singh, and Pushpendra Singh. "Experiences with Occupancy Based Building Management Systems". In: 2013, pp. 153–158.
- [C1] Nipun Batra, Haimonti Dutta, and Amarjeet Singh. "INDiC: Improved Non-Intrusive load monitoring using load Division and Calibration". In: 2013.

Workshops

- [W1] Oliver Parson, Grant Fisher, April Hersey, Nipun Batra, Jack Kelly, Amarjeet Singh, William Knottenbelt, and Alex Rogers. Dataport and NILMTK: a building data set designed for non-intrusive load monitoring. 2015.
- [W1] Nipun Batra, Manoj Gulati, Amarjeet Singh, and Mani B Srivastava. It's Different: Insights into home energy consumption in India. ACM, 2013.
- [W1] Pandarasamy Arjunan, Nipun Batra, Haksoo Choi, Amarjeet Singh, Pushpendra Singh, and Mani B. Srivastava. SensorAct: A Privacy and Security Aware Federated Middleware for Building Management. Toronto, Ontario, Canada, 2012. DOI: 10.1145/2422531.2422547. URL: http://doi.acm.org/10.1145/2422531.2422547.

Posters and Demos

- [P1] Nipun Batra, Manoj Gulati, Puneet Jain, Kamin Whitehouse, and Amarjeet Singh. Bits and watts: improving energy disaggregation performance using power line communication modems: poster abstract. ACM, 2014.
- [P1] Jack Kelly, Nipun Batra, Oliver Parson, Haimonti Dutta, William Knottenbelt, Alex Rogers, Amarjeet Singh, and Mani Srivastava. Demo abstract: NILMTK v0. 2: A Non-intrusive Load Monitoring Toolkit for Large Scale Data Sets. 2014.
- [P1] Pandarasamy Arjunan, Manaswi Saha, Manoj Gulati, Nipun Batra, Amarjeet Singh, and Pushpendra Singh. SensorAct: Design and Implementation of Fine-grained Sensing and Control Sharing in Buildings. 2013.

Tech. report

- [R1] Nipun Batra. Non Intrusive Load Monitoring: Systems, Metrics and Use Cases. 2015, pp. 501-502.
- [R1] Nipun Batra, Rishi Baijal, Amarjeet Singh, and Kamin Whitehouse. How good is good enough? Re-evaluating the bar for energy disaggregation. 2015.
- [R1] Nipun Batra, Amarjeet Singh, and Kamin Whitehouse. Neighbourhood NILM: A Big-data Approach to Household Energy Disaggregation. 2015.
- [R1] Nipun Batra, Amarjeet Singh, Pushpendra Singh, Haimonti Dutta, Venkatesh Sarangan, and Mani Srivastava. Data Driven Energy Efficiency in Buildings. 2014.