Education . Indraprashta Inst Ph.D. Scholar, Compu

Indraprashta Institute of Information Technology Delhi

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

Jan 2012-Present

Delhi, India

Delhi College of Engineering

Delhi, India

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 Jan. 2012 - Present

University of Virginia (under Prof. Kamin Whitehouse)

Charlottesville, Virginia, USA

VISITING RESEARCHER

Linux Android Network Systems Lab., DCE

Jul. 2014 - Apr. 2015 Delhi, India

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

Goldman Sachs

Engineering intern

Jun. 2011 - Nov. 2011

Bangalore, India

Jun. 2010 - Aug. 2010

Invited Talks ___

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

Professional Service _____

2016 **Steering committee**, 3rd International NILM workshop *Canada*2014 **Program committee**, 2nd International NILM workshop *Austin, Texas, USA*

Publications _____

Articles

- [A8] Nipun Batra, Rishi Baijal, Amarjeet Singh, and Kamin Whitehouse. "How good is good enough? Re-evaluating the bar for energy disaggregation". In: arXiv preprint arXiv:1510.08713 (2015).
- [A7] Nipun Batra, Amarjeet Singh, and Kamin Whitehouse. "Neighbourhood NILM: A Big-data Approach to Household Energy Disaggregation". In: arXiv preprint arXiv:1511.02900 (2015).
- [A6] 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: (2014), pp. 265–276.

- [A5] 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". In: arXiv preprint arXiv:1409.5908 (2014).
- [A4] 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". In: the poster track of 10th USENIX Symposium on Networked Systems Design and Implementation (NSDI'13) (2013).
- [A3] Nipun Batra, Pandarasamy Arjunan, Amarjeet Singh, and Pushpendra Singh. "Experiences with Occupancy Based Building Management Systems". In: Intelligent Sensors, Sensor Networks and Information Processing, 2013 IEEE Eighth International Conference on (2013), pp. 153–158.
- [A2] Nipun Batra, Haimonti Dutta, and Amarjeet Singh. "INDiC: Improved Non-Intrusive load monitoring using load Division and Calibration". In: 12th International Conference on Machine Learning and Applications (ICMLA'13) (2013).
- [A1] Nipun Batra, Manoj Gulati, Amarjeet Singh, and Mani B Srivastava. "It's Different: Insights into home energy consumption in India". In: (2013), pp. 1–8.

Presentations

- [P2] Nipun Batra. "Non Intrusive Load Monitoring: Systems, Metrics and Use Cases". In: Proceedings of the 13th ACM Conference on Embedded Networked Sensor Systems. ACM. 2015, pp. 501–502.
- [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". In: Proceedings of the 1st ACM Conference on Embedded Systems for Energy-Efficient Buildings. ACM. 2014, pp. 210–211.