

# Nihesh Rathod

## Curriculum Vitae

Room No. 332, New Boys Hostel,  
Indian Institute of Science, Bangalore 560012.

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### Education

- July, 2015 onwards **Doctor of Philosophy in Communications and Networking**,  
*Department of Electrical Communication Engineering,  
Indian Institute of Science, Bangalore.*
- August, 2013 – **Master of Engineering in Telecommunications Engineering**,  
June, 2015 *Department of Electrical Communication Engineering,  
Indian Institute of Science, Bangalore.*
- July, 2008 – **Bachelor of Engineering in Electronics and Communications Engineering**,  
May, 2012 *Department of Electronics and Communication Engineering,  
Dharmasinh Desai University, Nadiad.*

### Work Experience

- June, 2018 – **Research Intern**,  
August, 2018 *Cisco Systems (India) Pvt. Ltd, Bangalore.*  
– Next generation Wi-Fi specifications (802.11ax and 802.11az).  
– Neighbour awareness networking (NAN) and in-band full duplex medium access control (MAC) algorithms.
- August, 2017 – **Teaching Assistant**,  
December, 2017 & *E0-259 Data Analytics, Indian Institute of Science, Bangalore.*  
August, 2018 – – Principles of hand-on Data Analytics through several case-studies.  
December, 2018 – Data sets from diverse topics such as astronomy, sports, genomics, neuroscience, surveillance camera and social network.  
– Statistical tools and modeling techniques for analysing data.
- August, 2018 – **Teaching Assistant**,  
December, 2018 *E0-800 Machine Learning and Data Analytics, Indian Institute of Science, Bangalore.*  
– Basic principles of machine learning and data analytics.
- December, 2011 – **Graduate Engineer Trainee**,  
April, 2012 *Tata Teleservices Limited, Ahmedabad.*  
– Operation and maintenance of mobile base station and optical fibre backbone infrastructure which provides connectivity to base stations.

### Publications

- WMNC 2019 **Relay Placement Algorithms for Communication in a Heterogeneous Propagation Environment**,  
Paris, France Nihesh Rathod and Rajesh Sundaresan
- Globecom 2018 **Data-driven and GIS-based Coverage Estimation in a Heterogeneous Propagation Environment**,  
Abu Dhabi Nihesh Rathod, Renu Subramanian, Rajesh Sundaresan
- ISC2 2015 **Towards an IoT based Water Management System for a Campus**,  
Guadalajara Prachet Verma, Akshay Kumar, Nihesh Rathod, Pratik Jain, Mallikarjun Sunkenapally, Renu Subramanian, Bharadwaj Amrutur, M.S. Mohan Kumar, Rajesh Sundaresan 

WiOpt 2015 IIT Bombay **Performance analysis of wireless devices for a campus-wide IoT network,**  
Nihesh Rathod, Pratik Jain, Renu Subramanian, Siddesh Yawalkar, Mallikarjun Sunkenapally,  
Bharadwaj Amrutur and Rajesh Sundaresan [↗](#)

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## Technical Reports

CyPhyss 2017 IISc Bangalore **Poster – An ACO-based Relay Placement Tool for Communication in a Heterogeneous Region,**  
Nihesh Rathod, Renu Subramanian, Rajesh Sundaresan [↗](#)

COMSNETS 2017 Bangalore **Invited talk – A GIS- and Measurement-aided Framework for Placement of Relays in a Heterogeneous Propagation Environment**  
Nihesh Rathod, Renu Subramanian, Rajesh Sundaresan (Presenter)

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## Projects

May, 2016 – December, 2016 **Bheemboy – A course registration website developed for IISc:** Courseg is a webapp for managing course registrations at academic institutions. Students can register for courses on the Courseg website. The registrations can be reviewed by the student's adviser, the relevant course instructor, and department admins. After the registration is complete, students can opt to change the registration type (Credit, Audit, etc.) or drop the course within the specified date. On completion of the course, instructors can assign grades.

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## Achievements

July, 2015 onwards **Cisco Research Scholar,**  
*Department of Electrical Communication Engineering,  
Indian Institute of Science, Bangalore.*

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## Technical Skills

Languages C, C++, R, Python  
Softwares Matlab, Quantum GIS (Geographical Information Systems)

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## Personal Details

Languages English, Hindi, Gujarati  
Hobbies Cycling, Reading, Gaming, Music

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## References

IISc Bangalore **Dr. Rajesh Sundaresan** [↗](#)  
Professor,  
Department of Electrical Communication Engineering.

IISc Bangalore **Dr. Amrutur Bharadwaj** [↗](#)  
Professor,  
Department of Electrical Communication Engineering.