

Sunny Sanyal

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Education

09/2016-06/2019 **Chongqing University of Posts and Telecommunications** (CQUPT), China
Master of Engineering in Communication and Information Systems
Dissertation: Data Aggregation Techniques for Internet of Things
GPA: 92.22/100
Advisor: Prof. Wu Dapeng [[google scholar](#)]

08/2011-07/2015 **Maulana Abul Kalam Azad University of Technology**, India
(Formerly known as West Bengal University of Technology, India)
Bachelor of Technology in Electronics and Communication Engineering
DGPA: 8.23/10

Experience

The Key Laboratory of Ubiquitous Sensing and Networking in Chongqing, P.R. China 10/2016-present
(established and managed by the provincial government of Chongqing)

Graduate research student
Collaborators: Prof. Wu Dapeng, Dr. Zhang Puning, Yan Junjie, [Boubakr Nour](#)

- Worked on four projects jointly funded by NNSF, China and the provincial government of Chongqing
- Approaches used: cluster formation, Bayesian rough sets, subspace tracking and estimation, federated filtering, LSTM encoder decoder architecture

Tech Mahindra Limited, Hyderabad, India 08/2015-08/2016
Associate software engineer

- Worked within the offshore team to develop a website for [ACRA](#) government of Singapore
- Training and implementation: Oracle ADF, basic java, SQL

Tronix India company, Kolkata, India 2013-2015
Co-founder and Manager

- Developed prototypes, raised funds, held meetings with investors
- Participated in Industrial India trade fair 2014 as a company and received 700+ visitor's feedbacks

Indian Statistical Institute, Computer Vision and Pattern Recognition Lab, India 07/2014-08/2014
Summer Internship, Advisor: Dr. Sarbani Palit [[homepage](#)]

- Developed a matlab based automatic video detection algorithm

Tezpur University, Computer Science Department, India 06/2014-07/14
Research Internship, Advisor: Dr. B. Bora [[google scholar](#)]

- Designed and simulated a digital image filter for noise removal in grey scale images [[report](#)]

Peer-Reviewed Publications

- **Sunny Sanyal**, Boubakr Nour and Hassine Mounbla "Advanced Deep Neural Networks at the Edge of Internet of Things", Elsevier Computer Communications. [submitted | IF: 2.766]
- **Sunny Sanyal**, "Data Aggregation Techniques for Internet of Things ", Master's Thesis, Chongqing University of Posts and Telecommunications, Chongqing, China, 24 June 2019. [[link](#)] [**Excellent Master's Thesis Award**]
- **Sunny Sanyal**, Animesh, Bin Zhou and Jean, "DeepMines: A fog enabled prediction platform for underground coal mines", Project Report, IEEE ComSoc Student's Competition 2018. (**Honorary Mention Award**)
- [Currently submitted to MINDS Workshop at IEEE COMSNETS 2020, Bengaluru, India]
- **Sunny Sanyal**, Dapeng Wu, Boubakr Nour, "A Federated Filtering Framework for Internet of Medical Things", IEEE ICC 2019 conference, Shanghai, China, 20-24 May 2019. [[link](#)] [Top ~1%]

- **Sunny Sanyal**, Puning Zhang, “Improving Quality of Data: IoT data aggregation using device to device communications”, IEEE Access, Vol. 6, page. 1-11, Nov. 2018. [[link](#)] [IF: 4.098]
- **Sunny Sanyal**, Wu Dapeng, Junjie Yan, Xing Li,”Co-relative mobility based IoT data uploading using D2D communication”, In Proc. of 10th EAI Mobimedia, Chongqing, China, 13-14 July 2017. [[link](#)]
- Dapeng Wu , Junjie Yan, **Sunny Sanyal**, Ruyan Wang, “Trust oriented partner selection in D2D cooperative communications”, IEEE Access, Vol. 5, page. 3444-3453, February 2017. [[link](#)] [IF: 4.098]
- Simpy Sanyal , **Sunny Sanyal**, “Exhilaration of Fuel Economy via Genetic Algorithm”, Indian Centre for Advanced Scientific and Technological Research journal of engineering, Vol. 8, No. 2(2015), May 2015. [[link](#)]
- **Sunny Sanyal** , Simpy Sanyal, “Automatic switching of home appliances one sensor to many system approach”, In Proc. of 6th IEEE Power India International Conference, Delhi, India, 6th Dec 2014. [[link](#)]
- **Provisional Patent** “Communication System for dumb (Dumb Shirt)” Application ID: 400/KOL/2015. [[link](#)]

Selected Academic Distinctions

- Excellent Master’s Thesis Award, Chongqing Univ. of Posts and Telecom, China 06/2019
- Outstanding International Student Award, International College of CQUPT, China 06/2019
- Technology Innovation Award (科技创新奖), International College of CQUPT, China 04/2019
- Honorary Mention Award in IEEE ComSoc Student’s Competition 2018 11/2018
- Selected by the Indian ministry of education (MHRD) for the prestigious Chinese Government Scholarship with a round trip travel grant. 2016-2019
- Selected for IEEE summer school 2018 with IEEE accommodation grant 06/2018
- Secured 2nd position in national level embedded systems design contest at ‘KSHITIJ-2013’, Indian Institute of Technology [[link](#)] 02/2013
- Offered conference travel grant to USA by Indian national academy of engineering 11/2014
- Secured 3rd position in project idea competition, ‘E-nnovation’ 07/2014
- Received newspaper coverage for project
Communication system for people with disability in speech 04/2014
- Secured 3rd position in Project exhibition competition, ‘Inquista’ 02/2014
at Indian Institute of Science Education and Research, Kolkata
- Best Paper award in inter university Paper presentation event, ‘Paridhi’, 01/2014
- Secured 2nd position in technical project Idea competition,‘EXSORSA-2013’ 03/2013

Professional services

- [IEEE Access](#) Journal. [[reviewer](#)]
- [IEEE VTC 2019-Fall](#): Recent Results track, 2019, Honolulu, Hawaii. [[reviewer](#)]
- [IEEE International Conference on Communications](#): SAC E-Health Track, 2019, Shanghai, China. [[reviewer](#)]
- [IEEE International Conf. on Computer Communications and Networks](#), 2019, Spain. [[reviewer](#)]
- [ACM/SIGAPP Symposium On Applied Computing](#), 2019, Cyprus. [[program committee](#)]
- [IEEE International Conference on Emerging and Emerging Technologies](#), 2019, Lahore, Pakistan. [[program committee](#)]
- [EAU International conference on future access enablers of ubiquitous and intelligent infrastructure](#), 2019, Bulgaria. [[TPC](#)]
- [EAU International conference on ubiquitous communications and network computing](#), 2019, India. [[publicity co-chair](#)]
- [EAU International conference on innovations and interdisciplinary solutions for underserved areas](#), 2019, Egypt. [[reviewer](#)]

Membership: IEEE student member, IEEE Communications society, IEEE Internet of things community, IEEE young professionals, Quora Partner Program (by [invitation](#)), EAI member

Invited Talk: Global Youth Talk 2017, Chongqing, China [[video](#)][[certificate](#)]

University representative: Smart China Expo 2018: 5G forum, Chongqing, China

Non Academic Distinctions

- Secured 2nd position in Belt and road business innovation challenge 2017 ,China
- Secured 2nd position in Scotia Bank data analytic Challenge 2016 hosted by Tech Mahindra, Canada
- Participated in ‘[Google start up weekend 2015](#)’ organized by [NASSCOM](#) at [IIM](#) Calcutta, India

Computing Skills: Matlab, Octave, SQL, Java (basic), Python (amateur) || **Language Skills:** English, Chinese, Hindi, Bengali, Chhattisgarhi