

Aravindh Raman

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King's College London
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EDUCATION

- 2015 - 2019* Masters/Doctorate in TELECOMMUNICATION ENGINEERING
King's College London, Strand, UK
Thesis Advisor: [Dr. Nishanth Sastry](#)
- 2008 - 2012 Bachelor of Technology in INFORMATION TECHNOLOGY 8.43/10
Anna University, Chennai, India

AWARDS AND ACHIEVEMENTS

- 2015 - 2019* Prof. Sir Rick Trainor Scholarship
2018 ICDCS Travel Grant Award
2018 ACM COMPASS Travel Grant Award
2018 WWW Best Paper Honorable Mention
2017 SIGCOMM MECOMM Best Paper Award
2017 SIGCOMM Travel Grant Award
2014 Winner in YAHOO Hackathon
2012 Best Undergraduate Project Award
- 2010 - 2012 Several winning streaks and runner-ups in poster presentation and robotic competitions (organised by Microsoft Dreamspark, IIT Madras, IIT Kharagpur, IIT Bombay)
- 2011 *Summer Research Fellow*, Tata Institute of Fundamental Research (TIFR), Mumbai
- 2008 - 2010 Cash award during bachelors for outstanding curriculum.

SELECTED PUBLICATIONS

- CONSUME LOCAL: TOWARDS CARBON FREE CONTENT DELIVERY
Aravindh Raman, Dmytro Karamshuk, Nishanth Sastry, Andrew Secker and Jigna Chandaria
In 38th IEEE International Conference on Distributed Computing Systems (ICDCS), July 2018
- FACEBOOK (A)LIVE? ARE LIVE SOCIAL BROADCASTS REALLY BROADCASTS?
Aravindh Raman, Gareth Tyson and Nishanth Sastry
[Honorable Mention] In 27th World Wide Web Conference (WWW), Lyon, France, April 2018
- WI-STITCH: CONTENT DELIVERY IN CONVERGED EDGE NETWORKS
Aravindh Raman, Nishanth Sastry, Arjuna Sathiaseelan, Jigna Chandaria and Andrew Secker
[Best Paper] In Proceedings of SIGCOMM Workshop, Aug 2017 (Mecomm)
[Invited] ACM SIGCOMM Computer Communication Review (CCR), October 2017

INDUSTRY EXPERIENCE

- NOV 2018 TELEFONICA RESEARCH LABS, Spain
AUG 2018 *Research Intern*
Bringing together Machine Learning to the edge and various network components.
- AUG 2015 GRAM VAANI COMMUNITY MEDIA PVT. LTD., Delhi
JAN 2014 *Member of Technical Staff*
Gained the research experience in the field of Information and Communication Technologies for Development (ICTD). Enhanced my coding skills with the telephony services.

ACADEMIC EXPERIENCE

- CURRENT QUEEN MARY UNIVERSITY OF LONDON
MAR 2018 *Research Assistant*
Working towards a better upload infrastructure by understanding the realtime user broadcasts.
- FEB 2018 KING'S COLLEGE LONDON
JULY 2016 *Research Assistant*
Modelled a proactive and co-operative content placement scheme improvising the performance of cache at the edge.
- AUG 2017 CAMBRIDGE COMPUTER LABORATORY
MAR 2017 *Research Assistant*
Formulated a collaborative edge architecture for content delivery.
- DEC 2016 EURECOM, France
AUG 2016 *Visiting Researcher*
Developed a multipath multicast content delivery framework and deployed over LTE band as a part of EU project's deliverable.
- DEC 2013 INDIAN INSTITUTE OF TECHNOLOGY, Delhi
AUG 2012 *Research Associate*
Made in-depth analysis and practical study on working of a network protocol stack, in particular, network and transport layers.
- JULY 2011 TATA INSTITUTE OF FUNDAMENTAL RESEARCH, Mumbai
MAY 2011 *Summer Research Fellow*
Developed a Java based BPMN2ORC utility that enables [executorial framework of BPMN using ORC](#).

PUBLICATIONS

- **THE MAKING OF 5G – BUILDING AN END-TO-END 5G-ENABLED SYSTEM**
Idelkys Quintana-Ramirez, Anthony Tsiopoulos, Maria Lema, Fragkiskos Sardis, Luis Sequeira, James Arias, *Aravindh Raman*, Ali Azam and Mischa Dohler
IEEE Communications Standards Magazine, in press.
- **CARE TO SHARE? AN EMPIRICAL ANALYSIS OF CAPACITY ENHANCEMENT BY SHARING AT THE EDGE**
Aravindh Raman, Nishanth Sastry, Nader Mokari, Mostafa Salehi, Tooba Faisal, Andrew Secker, and Jigna Chandaria
In MOBICOM Workshop on Technologies for the Wireless Edge (EdgeTech), Nov 2018
- **TOWARDS A TAXONOMY OF DIFFERENTIATED SERVICE CLASSES IN THE 5G ERA**
Emeka Obiodu, Nishanth Sastry and *Aravindh Raman*
In IEEE 5G World Forum (5GWF), July 2018
- **CONSUME LOCAL: TOWARDS CARBON FREE CONTENT DELIVERY**
Aravindh Raman, Dmytro Karamshuk, Nishanth Sastry, Andrew Secker and Jigna Chandaria
In 38th IEEE International Conference on Distributed Computing Systems (ICDCS), July 2018
- **EDGE FOR THE EDGE: HOW EDGE-CENTRIC ARCHITECTURES CAN BENEFIT THE DEVELOPING COUNTRIES?**
Aravindh Raman, Gareth Tyson and Nishanth Sastry
Poster in ACM Conference on Computing and Sustainable Societies (COMPASS), June 2018
- **FACEBOOK (A)LIVE? ARE LIVE SOCIAL BROADCASTS REALLY BROADCASTS?**
Aravindh Raman, Gareth Tyson and Nishanth Sastry
[Honorable Mention] In 27th World Wide Web Conference (WWW), Lyon, France, April 2018
- **INDIVIDUAL PREFERENCE PROBABILITY MODELING FOR VIDEO CONTENT IN WIRELESS CACHING NETWORKS**
Ming-Chun Lee, Andreas F. Molisch, Nishanth Sastry and *Aravindh Raman*
IEEE GLOBECOM 2017
- **WI-STITCH: CONTENT DELIVERY IN CONVERGED EDGE NETWORKS**
Aravindh Raman, Nishanth Sastry, Arjuna Sathiseelan, Jigna Chandaria and Andrew Secker
[Best Paper] In Proceedings of SIGCOMM Workshop, Aug 2017 (Mecomm)
[Invited] ACM SIGCOMM Computer Communication Review (CCR), October 2017
- **ASSESSMENT OF A PLATFORM FOR NON-CONTIGUOUS AGGREGATION OF IEEE 802.11 WAVEFORMS IN TV WHITE SPACE**
Oliver Holland, *Aravindh Raman*, Nishanth Sastry, Stan Wong, Jane Mack, Lisa Lam
IEEE VTC July 2016
- **CHANGING AVAILABILITY OF TV WHITE SPACE IN THE UK**
Oliver Holland, Heikki Kokkinen, Stan Wong, Vasilis Friderikos, *Aravindh Raman*, Mischa Dohler and Maria Lema
IET Electronics Letters, 52(15), 1349-1351. Jun 2016

- **REVISITING THE STATE OF CELLULAR DATA CONNECTIVITY IN INDIA**
Asheesh Sharma, Manveen Kaur, Zahir Koradia, Rahul Nishant, Sameer Pandit, *Aravindh Raman* and Aaditeshwar Seth
Proceedings of Annual Symposium on Computing for Development(ACM DEV), Dec 2015
- **FIRST IMPRESSIONS ON THE STATE OF CELLULAR DATA CONNECTIVITY IN INDIA**
Zahir Koradia, Goutham Mannava, *Aravindh Raman*, Gaurav Aggarwal, Vinay Ribeiro, Aaditeshwar Seth, Sebastian Ardon, Anirban Mahanti and Sipat Triukose
Proceedings of ACM DEV, Jan 2013

TECHNICAL SKILLS

Languages	Python, C++, Bash
Web Technologies	HTML, JS, CSS, AngularJS
Database	MySQL, Postgres, Mongo
Operating Systems	Linux
Frameworks	Django(Python), Laravel(PHP)

REFERENCES

Provided on Request

December 12, 2018
London

(Aravindh Raman)

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