



## Debopam Bhattacharjee

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## Current Research

- **Space Race:** Investigating the opportunities and challenges of Low Earth Orbit (LEO) satellite broadband. This project aims to explore various aspects of such massive constellations (like the ones being recently proposed by SpaceX and OneWeb) - topology design, routing, and transport challenges, to name a few.
- **cISP:** Designing speed-of-light (c) networks across the US and Europe with fiber and point-to-point microwave communications. Project Web page: [cspeed.net](http://cspeed.net)
- **Fetch:** Analyzing the consolidation of the Web in or near public cloud. This project aims to leverage this consolidation in order to deliver Web content faster.

## Publications

- **Gearing up for the 21st century space race** [\[Link\]](#)
  - Debopam Bhattacharjee, Waqar Aqeel, Ilker Nadi Bozkurt, Anthony Aguirre, Balakrishnan Chandrasekaran, P Godfrey, Gregory Laughlin, Bruce Maggs, Ankit Singla
  - ACM HotNets 2018
- **Dissecting Latency in the Internet's Fiber Infrastructure** [\[Link\]](#)
  - Ilker Nadi Bozkurt, Waqar Aqeel, Debopam Bhattacharjee, Balakrishnan Chandrasekaran, Philip Brighten Godfrey, Gregory Laughlin, Bruce M Maggs, Ankit Singla
  - arXiv preprint arXiv:1811.10737 (2018)
- **cISP: A Speed-of-Light Internet Service Provider** [\[Link\]](#)[\[Video\]](#)
  - Debopam Bhattacharjee, Sangeetha Abdu Jyothi, Ilker Nadi Bozkurt, Muhammad Tirmazi, Waqar Aqeel, Anthony Aguirre, Balakrishnan Chandrasekaran, P Godfrey, Gregory P Laughlin, Bruce M Maggs, Ankit Singla
  - arXiv preprint arXiv:1809.10897 (2018)
- **A Cloud-based Content Gathering Network** [\[Link\]](#)
  - Debopam Bhattacharjee, Muhammad Tirmazi, Ankit Singla
  - USENIX HotCloud 2017
- **Watch your step! Detecting stepping stones in programmable networks**
  - Debopam Bhattacharjee, Andrei Gurtov, Tuomas Aura
  - IEEE ICC Communication and Information Systems Security Symposium 2019

## Talks

- “Gearing up for the 21st century space race” at ACM HotNets 2018
- “Speeding up the Internet” at ETH Zürich Systems Group Retreat 2018
- “A Cloud-based Content Gathering Network” at HotCloud 2017
- “Detection of Stepping Stones in Software Defined Networks” at ETH Zürich, April 2016

## Teaching

- Future Internet, Spring 2019, ETH Zürich
- Computer Networks, Spring 2019, ETH Zürich
- Advanced Computer Networks, Spring 2018, Spring 2017, ETH Zürich
- Big Data, Autumn 2016 [[Link](#)], ETH Zürich
- Network Security, Autumn 2015 [[Link](#)], Aalto University, Finland
- Information Security, Autumn 2015 [[Link](#)], Aalto University, Finland

## Supervision (completed)

- Distributed Systems Laboratory (Master studies; 10 credits), Isac Andrei & Ursache Andrei, "Topology design for wide-area low-latency network with multiple media", ETH Zürich, 2018.
- Bachelor thesis, Johannes Gallmann, "Turning Web Page Delivery Upside Down: Optimizing a Smart Proxy", ETH Zürich, 2018.
- Bachelor thesis, Cédric Neukom, "Customizing QUIC for Web servers", ETH Zürich, 2018.

## Education

- Erasmus Mundus Master's degree in Security and Mobile Computing (NordSecMob)
  - Track: KTH Royal Institute of Technology, Sweden + Aalto University, Finland
  - Graduation year: 2016
- Bachelor's degree in Computer Science and Engineering
  - Jadavpur University, India
  - Graduation year: 2009

## Work Experience

- October 2016 - Present: PhD Candidate at ETH Zürich.
- June 2015 - July 2016: Research/Teaching Assistant at Aalto University, Finland.
- August 2009 - August 2014: IT Consultant at PwC and Deloitte.

## Service Activities

- ACM IMC 2018 Shadow PC member

## Achievements

- NordSecMob (Erasmus Mundus Masters Course) Consortium Scholarship (2014 - 2016) by NordSecMob Consortium, February 2014
- Stood 60th out of approximately 70,000 students in Engineering in West Bengal Joint Entrance Examination (WBJEE), 2005
- National Merit Scholarship by Government of India, June 2003 - June 2009