Satadal Sengupta (Sata)

Date of Birth	17th September 1991	**Email**	satadal.sengupta@cs.princeton.edu
Nationality	Indian	**Website**	https://satadalsengupta.github.io

Education

Sep 2019 - Present
Princeton University, USA
Ph.D. Candidate (3rd year), Dept. of Computer Science
Topic (Tentative): Fine-Grained Internet Measurements in the Data Plane
Advisor: Jennifer Rexford

Jan 2016 - Feb 2019
Indian Institute of Technology (IIT) Kharagpur, India
Master of Science (MS) (By Research), Computer Science and Engineering; *CGPA: 9.66/10*
Thesis: Network Traffic Regulation Techniques for Experience Differentiation
Advisors: Sandip Chakraborty, Niloy Ganguly [Complex Networks Research Group (CNeRG)]

July 2009 - May 2013
National Institute of Technology (NIT) Durgapur, India
Bachelor of Technology (B.Tech.), Computer Science and Engineering; *CGPA: 8.37/10*
Thesis: Secure Routing in Delay Tolerant Networks
Advisors: Subrata Nandi, Sujoy Saha [Mobile Computing and Networking Research Group]

Employment & Internship History

Mar 2019 - Aug 2019
ETH Zürich, Switzerland
Research Intern, Department of Computer Science
Project: Congestion Control in Satellite Constellation Networks
Advisor: Ankit Singla [Network Design & Architecture Lab]

May 2015 - Feb 2019
Indian Institute of Technology (IIT) Kharagpur, India
Senior Research Fellow (SRF) (JRF till Oct 2017), Computer Science and Engineering

Sep 2013 - Apr 2015
Oracle Financial Services Software Ltd., C.V. Raman Nagar, Bangalore, India
Associate Applications Developer, Oracle FLEXCUBE Development

May 2012 - July 2012
Microsoft India R&D Private Ltd., Hyderabad, India
Software Development Engineer (Intern), Microsoft IT

Selected Publications*

*List of <u>all</u> publications available at *https://satadalsengupta.github.io/#publications*

Conferences & Workshops

IAB-QoE 2021	**Satadal Sengupta**, Hyojoon Kim, Jennifer Rexford, ***Fine-Grained RTT Monitoring Inside the Network***, in the *Internet Architecture Board (IAB) Workshop on Measuring Network Quality for End-Users*, 2021.
WWW 2019	**Satadal Sengupta**, Niloy Ganguly, Pradipta De, Sandip Chakraborty, ***Exploiting Diversity in Android TLS Implementations for Mobile App Traffic Classification***, in *The Web Conference (WWW)*, 2019.
ICNP 2018	**Satadal Sengupta**, Niloy Ganguly, Sandip Chakraborty, Pradipta De, ***HotDASH: Hotspot Aware Adaptive Video Streaming using Deep Reinforcement Learning***, in the *IEEE International Conference on Network Protocols (ICNP)*, 2018.
NOSSDAV 2017	A. Mondal, **Satadal Sengupta**, B.R. Reddy, M.J.V. Koundinya, Chander G., P. De, N. Ganguly, S. Chakraborty, ***Candid with YouTube: Adaptive Streaming Behavior and Implications on Data Consumption***, in the *ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV)*, 2017.

IM **2017**	**Satadal Sengupta**, V. Yadav, Y. Saraf, H. Gupta, N. Ganguly, S. Chakraborty, P. De, *MoViDiff: Enabling Service Differentiation for Mobile Video Apps*, in Mini Conference Track of the *IFIP/IEEE International Symposium on Integrated Network Management (IM)*, 2017.
IMC **2016**	R. Sen, H.A. Pirzada, A. Phokeer, Z.A. Farooq, **Satadal Sengupta**, D. Choffness, K.P. Gummadi, *Inspecting the Free Bridge Across the Digital Divide: Assessing the Quality of Facebook's Free Basics Service*, in *ACM Internet Measurement Conference (IMC)*, 2016.

Journal

WiNe **2016**	S. Saha, S. Nandi, R. Verma, **Satadal Sengupta**, K. Singh, V. Sinha, S.K. Das, *Design of Efficient Lightweight Strategies to Combat DoS Attack in Delay Tolerant Network Routing*, in *Journal of Wireless Networks (WiNe)*, Springer, 2016.

Posters & Demos

MobiCom **2018**	M.R. Dey, **Satadal Sengupta**, B.K. Mohanta, D. Jena, S. Chakraborty, *Magneto: Leveraging Magnetic Field Changes for Inferring Smartphone App Usage*, in the Poster Track of *ACM MobiCom*, 2018.
SIGMETRICS **2017**	S. Singh, V. Nanda, R. Sen, S. Ahmad, **Satadal Sengupta**, A. Phokeer, Z.A. Farooq, T.A. Khan, P. Kumaraguru, I.A. Qazi, D. Choffnes, K.P. Gummadi, *An Empirical Analysis of Facebook's Free Basics*, in the Poster Track of *ACM SIGMETRICS*, 2017.
[†]**COMSNETS** **2016**	D. Jain, S. Agarwal, **Satadal Sengupta**, P. De, B. Mitra, S. Chakraborty, *Prediction of Quality Degradation for Mobile Video Streaming Apps: A Case Study using YouTube*, in the Poster Track of *COMSNETS*, 2016.

Grants & Awards

- *Best Academic Demo* at *COMSNETS 2017* & [†] *Best Poster* at *COMSNETS 2016*.

- *WWW'19* & *Microsoft India* Student Travel Grants for attending *WWW 2019*.

- *ICNP'18* & *ACM/IARCS-India* Student Travel Grants for attending *IEEE ICNP 2018*.

- *MMSys'17* Student Travel Grant for attending *ACM MMSys 2017*.

- *APSys'17* Student Travel Grant for attending *ACM SIGOPS APSys 2017*.

Teaching Assistance

Semester	Institute	Course	Instructor
Fall '20, Spr. '21	Princeton U.	Advanced Programming Techniques	Robert Dondero
Spring 2018	IIT Kharagpur	Computer Networks	Sandip Chakraborty
Spring 2016, 17	IIT Kharagpur	Computer Networks	Niloy Ganguly
Fall 2017	IIT Kharagpur	Performance Modeling of Computer Networks	Sandip Chakraborty
Fall 2016	IIT Kharagpur	Smartphone Computing & Applications	Niloy Ganguly

Extra-Curriculars

- Freelance Writer for *JÑĀNĀLOK Infotech* – a Kolkata based creative writing company, from 2009 to 2013.

- Served as a volunteer at **The Web Conference 2019** and as the volunteer captain at **COMSNETS 2018**.

- *Languages:* English, Hindi, Bengali (Proficient); Spanish, German, Nepali (Elementary)

Last Updated: 15 January 2022