Hammas Bin Tanveer

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Education

Aug 2019 – May 2025	◇	**Ph.D. Computer Science, University of Iowa** **Advisor**: Dr. Rishab Nithyanand
Aug 2015 – May 2019	◇	**B.S. Computer Science, Lahore University of Management Sciences** **Advisor**: Dr. Fareed Zaffar

Research Publications

Conference Proceedings

1 **Hammas Bin Tanveer**, Echo Chan, Ricky K. P. Mok, *et al.*, "Unveiling IPv6 scanning dynamics: A longitudinal study using large scale proactive and passive IPv6 telescopes," in *The 21th International Conference on emerging Networking EXperiments and Technologies (CoNEXT)*, Dec. 2025.

2 **Hammas Bin Tanveer**, Mike Puchol, Rachee Singh, Antonio Bianchi, and Rishab Nithyanand, "Making sense of constellations: Methodologies for understanding starlink's scheduling algorithms," in *The 19th International Conference on emerging Networking EXperiments and Technologies (CoNEXT)*, Dec. 2023. 🔗 URL: https://dl.acm.org/doi/abs/10.1145/3624354.3630586.

3 **Hammas Bin Tanveer**, Rachee Singh, Paul Pearce, and Rishab Nithyanand, "Glowing in the dark: Uncovering IPv6 address discovery and scanning strategies in the wild," in *32nd USENIX Security Symposium (USENIX Security 23)*, Anaheim, CA: USENIX Association, Aug. 2023. 🔗 URL: https://www.usenix.org/conference/usenixsecurity23/presentation/bintanveer.

Pre-Prints

1 Bhaskar Kataria, **Hammas Bin Tanveer**, Rishab Nithyanand, and Rachee Singh, "Influence of ground obstructions on satellite network routing," *ArXiv*,

2 Ian Martiny, **Hammas Bin Tanveer**, Jack Wampler, Rishab Nithyanand, and Eric Wustrow, "Mind the IP gap: Measuring the impact of IPv6 on DNS censorship," *ArXiv*,

3 Jack Wampler, **Hammas Bin Tanveer**, Rishab Nithyanand, and Eric Wustrow, "Protoscan: Measuring censorship in IPv6," *ArXiv*,

Recommendation Pieces

1 Hammas Bin Tanveer, *Evading censorship from above: Assessing the feasibility of Starlink as a censorship circumvention tool*. Dec. 2023.

Work Experience

Aug 2024 – Present	◇	**Space Exploration Technologies Corp.**: Data Engineer II
Aug 2019 – May 2025	◇	**SPARTA Lab @ University of Iowa**: Research Assistant **Advisor**: Dr. Rishab Nithyanand

Work Experience (continued)

May 2023 – Oct 2023	⬦ **CAIDA @ UC San Diego**: Visiting Researcher **Advisor**: Dr. Ricky Mok/Dr. Kimberly C. Claffy
Jun 2022 – Nov 2022	⬦ **Censored Planet Lab @ University of Michigan**: Visiting Scholar **Advisor**: Dr. Roya Ensafi ⬦ **Open Technology Fund**: Senior Information Controls Fellow
Aug 2019 – May 2020	⬦ **Teaching Assistant**: University of Iowa **Courses**: Programming Language Concepts (JavaScript and Haskell)
Sep 2018 – May 2019	⬦ **Teaching Assistant**: Lahore University of Management Sciences **Courses**: Introduction to Programming in C++ and Operating Systems
Jan 2018 – May 2019	⬦ **Research Assistant**: Technology for People Initiative Lab **Advisor**: Dr. Fareed Zaffar

Invited Talks

November 2023	⬦ **IEEE VTS SAGWICS Seminar Series**, Methodologies for Understanding Starlink's Scheduling Algorithms ⬦ **Introduction to Computer Networks and Their Applications (CS3640) @ University of Iowa**, Methodologies for Understanding Starlink's Scheduling Algorithms
September 2023	⬦ **SysLunch @ Systems and Networking group UCSD**, Developing block-list generation methods for IPv6 scanners
October 2022	⬦ **Introduction to Computer Networks and Their Applications (CS3640) @ University of Iowa**, Uncovering IPv6 Address Discovery and Scanning Strategies in the Wild
March 2022	⬦ **IETF 113 (MAPRG session)**, Uncovering IPv6 Address Discovery and Scanning Strategies in the Wild