

# Ammar Tahir

## Curriculum Vitae

Coordinated Science Laboratory, UIUC  
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### Education

- 2020-2026 **PhD Computer Science**, *University of Illinois Urbana-Champaign*.  
Advisor: Radhika Mittal
- 2024 **MS Computer Science**, *University of Illinois Urbana-Champaign*.
- 2016–2020 **BS Computer Science**, *Lahore University of Management Sciences*, Pakistan.

### Research/Industry Experience

- 2020 - Now **Reserach Assistant**, *UIUC*, Champaign, IL.  
Advisor: Radhika Mittal
- Summer 2023 **Research Intern**, *Microsoft Research*, Redmond, WA.  
Mentors: Prateesh Goyal & Ilias Marinos
- 2019 - 2020 **Developer Advocate**, *Educative Inc.*, Pakistan.
- 2019 - 2020 **Undergraduate Reserach Assistant**, *LUMS*, Pakistan.  
Advisors: Zafar Ayyub Qazi & Ihsan Ayyub Qazi

### Publications

- 2024 Efficient Policy-Rich Rate Enforcement with Phantom Queues  
**Ammar Tahir**, Prateesh Goyal, Ilias Marinos, Mike Evans, Radhika Mittal  
*ACM SIGCOMM 2024*
- 2023 Enabling Users to Control their Internet  
**Ammar Tahir**, Radhika Mittal  
*USENIX NSDI 2023*
- 2023 Octopus: In-Network Content Adaptation to Control Congestion on 5G Links  
Yongzhou Chen, **Ammar Tahir**, Francis Yan, Radhika Mittal  
*ACM/IEEE SEC 2023*
- 2023 FedSS: Federated Learning with Smart Selection of Clients  
**Ammar Tahir\***, Yongzhou Chen\*, Prashanti Nilayam  
*FLSys@MLSys 2023*
- 2022 Fast and efficient look-ups via data-driven FIB designs  
Sachin Ashok\*, Aditi Partap\*, **Ammar Tahir\***  
*FIRA@ACM SIGCOMM 2022*
- 2020 Deconstructing Google's Web Light Service  
**Ammar Tahir**, Tahir Munir, Shaiq Munir, Zafar Ayyub Qazi, Ihsan Ayyub Qazi  
*WWW 2020*

### Teaching Experience

- 2022 **Graduate Teaching Assistant**, *CS 425/ECE 428 (Distributed Systems)*, UIUC.
- 2020 **Head Teaching Assistant**, *CS 382 (Network Centric Computing)*, LUMS.
- 2018-2019 **Teaching Assistant**, *CS 334 (Data Science)*, *CS 202 (Data Structures)*, *CS 210 (Discrete Mathematics)*, LUMS.

## Awards and Honors

- 2020 Graduation with Distinction – *LUMS*
- 2017–2020 Placed on Dean's Honor List – *LUMS*
- 2019 Winner SOFTEC Dynamic Programming competition, 1st/80+ teams
- 2018 Runners-up in CodinGuru IEEE LUMS, 2nd/50+ teams

## Talks

- 2024 Efficient Policy-Rich Rate Enforcement with Phantom Queues  
*SIGCOMM 2024*, Sydney, Australia
- 2024 Scalable and Customizable Network Bandwidth Management at ISPs  
*LUMS*, Lahore, Pakistan
- 2023 A Centrally Managed WiFi Mesh for Autonomous Farms (presented virtually)  
*Microsoft Research*, Redmond, Washington
- 2023 Enabling Network Support for Autonomous Farms  
*Iowa State University*, Ames, Iowa
- 2023 Enabling Users to Control their Internet  
*NSDI 2023*, Boston, Massachusetts

## Services

- Reviewing:** NSDI 2024 (Pre-review Task Force), IEEE Network Magazine 2024
- Artifact Evaluation:** OSDI 2024, ATC 2024

## Tools/Skills

C, C++, Go, Python, DPDK, eBPF, WebRTC, Linux tc, NS-3, Tensorflow