

Zafar Ayyub Qazi

+92 302729997
zafar.qazi@lums.edu.pk
<http://web.lums.edu.pk/~zaqazi>

Research Agenda

My research aims to improve the user experience, affordability, and privacy of networked systems.

Academics

- 2010–2016 **Ph.D. Computer Science**, *Stony Brook University*, NY, USA
○ Advisors: Samir Das (Stony Brook University) and Vyas Sekar (Carnegie Mellon University)
- 2005–2009 **BSc Computer Science**, *LUMS*, Pakistan

Professional Experience

- 2018–present **Assistant Professor**, *Department of Computer Science, LUMS*, Lahore, Pakistan
- 2016–2017 **Postdoctoral Scholar**, *EECS Department, UC Berkeley*, CA, USA
○ Mentors: Sylvia Ratnasamy and Scott Shenker.

Selected Refereed Publications

- **Causal Impact of Android Go on Mobile Web Performance**
Muhammad Abdullah, Zafar Ayyub Qazi, Ihsan Ayyub Qazi
To appear in *ACM IMC 2022*, Nice, France. (accept. rate=26%)
- **Coal Not Diamonds: How Memory Pressure Falter Mobile Video QoE**
Talha Waheed, Zahaib Akthar, Ihsan Ayyub Qazi, Zafar Ayyub Qazi
To appear in *ACM CoNEXT 2022*, Rome, Italy. (accept. rate=19%)
- **Enabling Emerging Edge Applications Through a 5G Control Plane Intervention**
Mukhtiar Ahmad, Ali Nawazish, Taimoor Tariq, Basit Iqbal, Taqi Raza, Zafar Ayyub Qazi
To appear in *ACM CoNEXT 2022*, Rome, Italy, France. (accept. rate=19%)
- **A Low Latency and Consistent Cellular Control Plane**
Mukhtiar Ahmad, Syed Usman Jafri, Azam Ikram, Wasiq Ahmad Qasmi, Syed Ali Nawazish, Zartash Uzmi, Zafar Ayyub Qazi
ACM SIGCOMM 2020, NY, USA. (accept. rate=22%)
- **Deconstructing Google's Web Light Service**
Ammar Tahir, Muhammad Tahir Munir, Shaiq Munir Malik, Zafar Ayyub Qazi, Ihsan Ayyub Qazi
WWW 2020, Taipei, Taiwan. (accept. rate=19%)
- **A High Performance Packet Core for Next Generation Cellular Networks**
Zafar Qazi, Melvin Walls, Aurojit Panda, Vyas Sekar, Sylvia Ratnasamy, Scott Shenker
ACM SIGCOMM 2017, Los Angeles, CA, USA, (accept. rate=14%)
- **A View from the Other Side: Understanding Mobile Phone Characteristics in the Developing World**
Sohaib Ahmad, Abdul Haamid, Zhenyu Zhou, Zafar Ayyub Qazi, Theophilus Benson, Ihsan Qazi.
ACM IMC 2016, Santa Monica, USA, (accept. rate=25%)
- **FireFly: A Reconfigurable Wireless Datacenter Fabric using Free-Space Optics**

Navid H. Azimi, Zafar Ayyub Qazi, H. Gupta, Vyas Sekar, Samir Das, H. Shah, A. Tanwer
ACM SIGCOMM 2014, Chicago, USA (accept. rate=19%)

○ **SIMPLE-fying Middlebox Policy Enforcement Using SDN**

Zafar Ayyub Qazi, Cheng-chun Tu, Luis Chiang, Rui Miao, Vyas Sekar, Minlan Yu
ACM SIGCOMM 2013, Hong Kong (accept. rate=15%)

Selected Invited Talks

- 2021 **“Rearchitecting the Cellular Control Plane for Emerging Edge Applications”**
 - Purdue University, USA, Virtual Event, April, 2021.
- 2020 **“Deconstructing Google’s Web Light Service”**
 - The World Wide Web Conference (WWW), Virtual Event, Taipei, Taiwan, April, 2020.
- 2019 **“A Scalable Packet Core for Next Generation of Cellular Networks ”**
 - Harvard University, 2019, Cambridge, MA, USA
- 2016-2017 **“A High Performance Packet Core for Next Generation Cellular Network”**
 - ACM SIGCOMM 2017, LA, USA.
- 2015-16 **“Minimally Disruptive Management Frameworks for Advanced Network Functions”**
 - Duke University, Durham, NC, USA
 - HP Labs, Palo Alto, CA, USA
 - UC Berkeley, Berkeley, CA, USA
 - University of Southern California (USC), Los Angeles, CA, USA
 - Bell Labs, NJ, USA
- 2013 **“SIMPLE-fying Middlebox Policy Enforcement Using SDN”**
 - ACM SIGCOMM 2013, Hong Kong

Honors and Awards

- Recognized in the AI 2000 list of most influential scholars in the area of computer networking from 2011-2020
- Google Faculty Research Award 2018-2019, \$25,000

Teaching Experience

Assistant Professor, LUMS

- CS 582: Distributed Systems (Fall 2021, 2020, 2019, 2018)
- CS 382: Network-Centric Computing (Spring 2022, 2021, 2020)
- CS 678: Topics in Internet Research (Spring 2022, 2021, 2020, 2019, 2018)
- CS 6312: Privacy in the Digital Age (Fall 2019)
- CS 4713: Introduction to the Internet: Architecture and Protocols (Fall 2018)

Services

Technical Program Committee member for the following conferences:

- ACM HotNets 2021, ACM HotNets 2021
- ACM SIGCOMM 2019, ACM SIGCOMM 2021
- ACM SoCC 2021,
- COMSNETS 2021,