

Education	<b>Department of Computer Science, Duke University</b> Ph.D. Student, Computer Science (expected September 2022) <ul style="list-style-type: none"><li>• Advisor: Prof. Bruce Maggs</li></ul>	08/2017 – Present
	<b>Computer Science &amp; Artificial Intelligence Lab (CSAIL), MIT</b> Visiting Researcher	09/2019 – 09/2020
	<b>National University of Sciences and Technology (NUST), Pakistan</b> Bachelor of Engineering, Software Engineering <ul style="list-style-type: none"><li>• Senior Design Project: Differentiated Services over SDN-IXP</li></ul>	09/2010 – 06/2014
Work Experience	<b>Max Planck Institute for Informatics (MPI), Saarbrücken, Germany</b> Research Intern <ul style="list-style-type: none"><li>• Worked on privacy in DNS client-side resolution</li><li>• Explored structural differences between landing and internal pages of websites and how that affects prior web performance studies</li></ul>	05/2019 – 08/2019
	<b>Akamai Technologies, New York City</b> Performance Engineer Intern <ul style="list-style-type: none"><li>• Derived methods for inversion of the footprint descriptor calculus. This inversion would create representative traffic traces, preventing privacy leaks from large logs</li></ul>	05/2018 – 08/2018
	<b>Arbisoft, Lahore, Pakistan</b> Software Engineer <ul style="list-style-type: none"><li>• Full-stack web development on Python Django &amp; Backbone.js</li><li>• Designed modules for XML &amp; JSON processing and generation</li><li>• Automated customer engagement and service through Natural Language Processing on text messages</li></ul>	09/2015 – 07-2017
	<b>Laboratory of Communications, Networks &amp; Multimedia, NUST</b> Summer Undergraduate Researcher <ul style="list-style-type: none"><li>• Added analytics features to BISmark network dashboard</li><li>• Deployed BISmark public server at NUST</li></ul>	06/2013 – 09/2013
	<b>Smart Machines &amp; Robotics Technology Lab, NUST</b> Undergraduate Researcher <ul style="list-style-type: none"><li>• Engineered machine learning and evaluation components of Tele-Surgical Robotic Simulation (TSRS)</li><li>• Organized evaluation experiment for TSRS</li></ul>	12/2012 – 05/2013
	<b>Puncturable Pseudorandom Sets and Private Information Retrieval with Polylogarithmic Bandwidth and Sublinear Time</b> <i>E. Shi, W. Aqeel, B. Chandrasekaran, and B. Maggs</i> Pre-print on <a href="#">Cryptology</a> 2020	
Publications	<b>On Landing and Internal Pages: The Strange Case of Jekyll and Hyde in Internet Measurement</b> <i>W. Aqeel, B. Chandrasekaran, B. Maggs, and A. Feldmann</i> ACM Internet Measurement Conference (IMC) 2020 <b>Community Contribution Award</b>	
	<b>A bird's eye view of the world's fastest networks</b> <i>D. Bhattacharjee, W. Aqeel, G. Laughlin, B. Maggs, and A. Singla</i> ACM Internet Measurement Conference (IMC) 2020	

## Assertion-Carrying Certificates

*W. Aqeel, Z. Hanif, J. Larisch, O. Omolola, T. Chung, D. Levin, B. Maggs, A. Mislove, B. Parno, and C. Wilson*  
Workshop on Foundations of Computer Security (FCS), 2020

## Untangling Header Bidding Lore: Some myths, some truths, and some hope

*W. Aqeel, D. Bhattacharjee, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla*  
Passive and Active Measurement Conference (PAM) 2020

**Best Dataset Award**

## Gearing up for the 21<sup>st</sup> Century Space Race

*D. Bhattacharjee, W. Aqeel, I. Bozkurt, A. Aguirre, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla*  
ACM HotNets 2018

## Dissecting Latency in the Internet's Fiber Infrastructure

*I. Bozkurt, W. Aqeel, D. Bhattacharjee, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla*  
Pre-print on [arXiv](#) 2018

## cISP: A Speed-of-Light Internet Service Provider

*D. Bhattacharjee, S. Jyothi, I. Bozkurt, M. Tirmazı, W. Aqeel, A. Aguirre, B. Chandrasekaran, P. Godfrey, G. Laughlin, B. Maggs, A. Singla*  
Pre-print on [arXiv](#) 2018

## Benchmarking Expert Surgeons' Path for Evaluating a Trainee Surgeon's Performance

*M. A. Ahmad, S. B. Mansoor, Z. A. Khan, W. Aqeel, and S. H. Kabir*  
ACM SIGGRAPH Virtual-Reality Continuum and Its Applications in Industry (VRCAI) 2013

## Teaching Experience

### Duke University

- Teaching Assistant, CPS 310 Operating Systems
- Teaching Assistant, CPS 310 Operating Systems

08/2018 – 12/2018  
01/2018 – 06/2018

## Service

### ACM EuroSys

Shadow Program Committee member

2021

### USENIX Operating Systems Design and Implementation

Artifact Evaluation Committee member

2020

## Awards & Honors

- Internet Measurement Conference, Community Contribution Award
- Passive and Active Measurements Conference, Best Dataset Award
- Duke University Graduate School Fellowship
- SEECs-NUST Alumni Association Scholarship
- Six merit-based grants from NUST
- NUST Entrance Test scholarship for securing rank 20 out of 20,000 students
- Board of Secondary Education, Karachi, scholarship for securing rank 16 out of 118,000 students

2020  
2020  
2017 – 2019  
2013 – 2014  
2010 – 2014  
2010  
2008

## Skills

Python, C, JavaScript, Prolog/Datalog, Linux, git