Zubair Ahmad

Ph.D. - Web Security & Privacy

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Interests and Vision

○ My interests revolve around internet privacy and security in the context of emerging technologies. Specifically, I am interested in investigating the application of tools to enhance internet security and privacy by means of AI, web measurements, information flow analysis, and GDPR. I am passionate about exploring novel techniques for preserving individual security and privacy while enabling valuable data-driven insights.

Experience

2020 to current

Research Assistant, *Ca'Foscari University Venice, Italy*

○ Research: I am actively involved in the development of the research activity of the Software and System Verification group under the supervision of Stefano Calzavara. Currently we are actively working on research projects related to **"Dynamic Taint Tracking for Web Privacy Analysis"**.

March 2023

Research Intern , *CISPA Helmholtz Center for Information Security, Germany*

○ Worked as a research intern at Secure Web Application Group (SWAG) under the supervision of Ben Stock. We worked on research projects related to "Analyzing the Privacy Protection Mechanism in different Browsers and Extensions"

Aug 2013 to Dec 2013

Trainee Engineer, *PTCL, Islamabad, Pakistan.*

○ Worked in the business and operation department and hand-on experience with different software like CRM, BNCC, and OMT

Sep 2013 to May 2014

Field Engineer, *IPL I2c.Inc, Islamabad, Pakistan.*

○ Software and Hardware installation - ATM Machines.

Education

2020 to current

Ph.D in Computer Science *Ca'Foscari University Venice* , Italy

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○ Internet Security and Privacy.
○ EU compliance Regulations, GDPR.

2016–2019　**(87%) Master Degree in Information and Communication Engineering**, *CQUPT Chongqing* , China.

○ Grade: 110/110 cum laude – **Outstanding Graduate Award 2019**

2007–2009　**B.E Electronics**, *DUET*, Karachi, Pakistan.

○ Grade: 110/110 cum laude

Languages　English (native), Chinese (fluent), Italian (basic).

Publications

AsiaCCS 2023　**Zubair Ahmad**, Stefano Calzavara, Samuele Casarin, and Ben Stock . "Information Flow Control for Comparative Privacy Analyses", (AsiaCCS - under review)

TWEB 2023　**Zubair Ahmad**, Samuele Casarin, and Stefano Calzavara. "An Empirical Analysis of Web Storage and its Application in Web Tracking" (ACM Transaction on Web Journal - 2023)

MadWeb-NDSS 2022　**Zubair Ahmad**, Samuele Casarin, and Stefano Calzavara. "What storage? An Empirical Analysis of Web Storage in the Wild" MadWeb-NDSS USA, 2022

ChinaCom 2020　**Zubair Ahmad**, Ma P, Wei T, Wang L, Chai R "Service Delay Minimization-Based Joint Clustering and Content Placement Algorithm for Celluar D2D Communication" Communications and Networking. ChinaCom , Feburay 2020.

ChinaCom 2020　C Liu, **Zubair Ahmad**, Rong Chai, Qianbin Chen. "Energy Efficiency Optimization Based Joint Resource Allocation and Clustering Algorithm for M2M Communication Networks". ChinaCom, Springer, Cham. vol 313, pp 351-363

WOCC 2019　Waleed Almughalles, Rong Chai, Junliang Lin, **Zubair Ahmad**. "Task Execution Latency Minimization-based Computation Offloading and Cell Selection for MEC-Enabled HetNets". 28th WOCC 2019 Beijing China

Awards, Honors and Fellowships

○ Summer School OPLSS – Oregon State University USA 2021
○ **Best Performance Award** European Parliament - 2021-22
○ **Outstanding Graduate Award** – Master Degree 2019
○ **Italian PhD Fellowship 2020**
○ **Best Performance Award** – United States Academic Decathlon 2017
○ **Best Paper Award**, China 2019
○ **First Prize** "One Belt One Road Business Idea Challenge, China 2017
○ **Chinese Scholarship Award**, 2016
○ PhD Representative – Ca'Foscari University Venice 2021
○ Vice President – International Students Association CQUPT China 2017

Community Services

- **MadWeb 2024** (Co-located with NDSS) – Program Committee
- **Transactions on Consumer Electronics** - Reviewer

Teaching and Supervision

- **Ca'Foscari University** – 40 Hours per year teaching activity
- **Master Thesis Supervision** - Samuele Casarain and Hamza Rouhani