ANDREA TULIMIERO

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EDUCATION

ETH, Zurich   *September 2018 - September 2020*
M.Sc. in Computer Science
Overall GPA: 5.54 (out of 6.0)

Sapienza University of Rome, Rome   *September 2015 - June 2018*
B.Sc in Engineering in Computer Science
Final grade: 110 cum laude (out of 110)

EXPERIENCE

Software Engineer & Research Assistant   July 2019 - Present
Network Security Group, ETH   *Zurich, Switzerland*

· *Analyzed* security guarantees achieved by the SCION next-generation internet architecture when targeted by DDoS attacks to *clarify* its strengths to customers.
· *Engineered* a new feature for the SCION Coordinator web app by *redesigning* database and API to increase users engagement by 53% [**Python** (Django), **JavaScript**, *HTML*, and *CSS*]
· *Developed* a SCION compatible home router (SCION Box) to make SCION internet accessible to everyone [**OpenWRT**, Linux **net-tools**, **JavaScript**]

Advanced Operating Systems (ETH)   March 2019 - June 2019

· *Built* a research-oriented microkernel in a team of 3.
· *Implemented* components like physical and virtual *memory manager*, and lock-free multi-core *IPC*. [**C**]

Google workshop for Cloud and Development   November 2017 - June 2018
Sapienza University/Google Tel Aviv   *Rome, Italy/Tel Aviv, Israel*

· *Coordinated* a team of 5 to build a web platform to drastically ease and speed up the share of findings between the malware researchers community [**Python** and **JavaScript**]

LEADERSHIP AND AWARDS

· **Speaker** at the SCION Day conference presenting the SCION Box (*talk* available here)
· *Planned* ETH CTF team own capture the flag event.
· *Selected* as one of 5 participants of Sapienza University's *Honors Program* for a semester-long research project about *dynamic malware analysis* [**C++**]
· *Awarded* with Mario Negri scholarship for outstanding results achieved during my B.Sc. studies

PROGRAMMING LANGUAGES AND COMPUTER SCIENCE

C, Python, JavaScript, C++, Linux, TCP/IP, Data structures   github.com/andreatulimiero

EXTRACURRICULAR ACTIVITIES

· Hobbyist competitive programmer on HackerRank and LeetCode [**C++**]