

SIMONE MAGNANI

PhD Student

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📄 s41m0n



EDUCATION

Ph.D. in Cybersecurity and Reliable Artificial Intelligence

📄 **Fondazione Bruno Kessler - Università di Genova**

📅 Nov 2020 - ongoing

M.Sc. in Computer Engineering

📄 **Politecnico di Torino**

📅 Oct. 2018 - Oct. 2020, 110/110 cum laude

🔗 Opportunistic Traffic Monitoring with eBPF

B.Sc. in Computer Science and Engineering

📄 **Università di Bologna**

📅 Sept 2015 - Oct 2018, 110/110

🔗 Analisi delle Prestazioni del Linux Kernel Runtime Guardian

PUBLICATIONS

📄 Journal Articles

- S. Magnani, D. S., F. Risso. (2022). A control plane enabling automated and fully adaptive network traffic monitoring with ebpf. *IEEE Access*, 10, 90778–90791. doi:10.1109/ACCESS.2022.3202644

👥 Conference Proceedings

- Doriguzzi-Corin, R., Cretti, S., Catena, T., Magnani, S., & Siracusa, D. (2022). Towards application-aware provisioning of security services with kubernetes. In *2022 IEEE 8th international conference on network softwarization (netsoft)* (pp. 284–286). doi:10.1109/NetSoft54395.2022.9844023

OPEN SOURCE CONTRIBUTIONS

BCC, a toolkit for creating efficient kernel tracing and manipulation programs

📄 **IOVisor** 📅 2020

🔗 iovisor/bcc

Contributed to extend the support of kernel primitives in C and Python.

CrownLabs, Kubernetes-based Remote Laboratories

📄 **Netgroup** 📅 2020

🔗 netgroup-polito/CrownLabs

Member of the Starting team, developed K8S APIs for the web service.

Polycube, build fast and lightweight network functions

📄 **Netgroup** 📅 2019-20

🔗 polycube-network/polycube

Created service for dynamic network traffic monitoring.

TOSHI, Total System Shield

📄 **EiT Digital** 📅 2020

🔗 s41m0n/eBPF_TrafficAnalyzer

Created probes for efficiently extracting data from network traffic.

Kubernetes on Desktop, run user applications in a remote cluster

📄 **Netgroup** 📅 2019-20

🔗 netgroup-polito/KubernetesOnDesktop

Enabled interactions with a cluster and offload Firefox and LibreOffice.

DeChainy, build and easily deploy network functions

📄 **DeChainers** 📅 2019-20

🔗 dechainers/dechainy

Founder and maintainer of the project.

EXPERIENCE

Software Developer, (Internship)

📄 **Yoroy S.R.L.** 📅 Oct-Dec, 2017

🔗 s41m0n/PassiveInformationGatherer

Developed a passive information gatherer system from online databases and IDSs log files.

STRENGTHS

Linux eBPF Docker
Kubernetes Go C C++
Python Java Bash
Open Source Engineering
Programming Cybersecurity
Machine Learning
Commitment Team Player
Resilient Problem-Solving
Reliable Humorous

LANGUAGES

Italian ●●●●●
Mother tongue

English ●●●●●
ielts: 7.0 overall (C1)

REFEREES

Prof. Fulvio Risso

✉ Politecnico di Torino

✉ fulvio.risso@polito.it

📄 Corso Duca degli Abruzzi, 24,
Torino (Italy)

Ph.D. Domenico Siracusa

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(Italy)