LORENZO PAPPONE

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EDUCATION

Saint Louis University *Aug 2021 - current*
Ph.D. Student in Computer Science St. Louis, MO, USA
Department of Computer Science

University of Naples Federico II *2015 - 2021*
B.S & M.S in Computer Engineering Naples, Italy
Department of Electrical Engineering and Information Technology

PERSONAL SKILLS AND COMPETENCES

Language: Italian (native), English (fluent)
Programming: Python, Java, Scala, C/C++, Javascript
Other Tools: git, MATLAB, Spark, Hadoop, Flask, Tensorflow, Keras, MySQL, PostgreSQL

WORK EXPERIENCE

Research Assistant *2021 - current*
Saint Louis University St. Louis, MO, USA

- Conducted research and authored articles on applied machine learning for network traffic matrix estimation and routing optimization.

Visiting Scholar *May 2023 - Sep 2023*
Boston University Boston, MA, USA

- Conducted research on transfer learning with generative adversarial networks for network attack intrusion detection.

Data Engineer *Mar 2021 - Ago 2021*
Almaviva DigitalTec Naples, Italy

- Design and development of a back-end Spark job for a big data management platform to support SQL-like operations over geo-spatial data (Scala, SQL).

Graduate Research Assistant *Oct 2020-Mar 2021*
University of Naples Federico II Naples, Italy

- Development of multi-task deep learning approaches to predict mobile-app network traffic aggregates over short-time scales.

PUBLICATIONS

[1] Bhavanasi, S. S., **Pappone, L.**, Esposito, F., "Dealing with changes: Resilient routing via graph neural networks and multi-agent deep reinforcement learning," *IEEE Transactions on Network and Service Management*, 2023. DOI: 10.1109/NFV-SDN56302.2022.9974607.

[2] Bhavanasi, S. S., **Pappone, L.**, Esposito, F., "Routing with graph convolutional networks and multi-agent deep reinforcement learning," pp. 72–77, 2022. DOI: 10.1109/TNSM.2023.3287936.

[3] Amoroso, R., **Pappone, L.**, Esposito, F., "A federated learning approach to traffic matrix estimation using super-resolution techniques," pp. 473–476, 2023. DOI: 10.1109/CCNC51644.2023.10060210.

[4] **Pappone, L.**, Cerasuolo, F., Persico, V., Ciuonzo, D., Pescape, A., Esposito, F., "Prediction of mobile-app network-video-traffic aggregates using multi-task deep learning," pp. 1–6, 2022. DOI: 10.23919/IFIPNetworking55013.2022.9829800.