Lorenzo Sani

Cambridge | ls985@cam.ac.uk

Education

Oct. 22–Jul. 25 · *PhD in Computer Science*, **University of Cambridge**

- Second-year student in the Machine Learning Systems group. Supervised by Dr Nicholas Lane.

`Machine Learning` `Federated Learning` `Distributed Systems`
`Python` `PyTorch` `Slurm`

Dec. 19–Mar. 22 · *Master degree in Applied Physics*, **University of Bologna**

- Thesis titled "Unsupervised Clustering of MDS data using federated learning". Supervised by Prof. Enrico Giampieri and Prof. Gastone Castellani

`Machine Learning` `Federated Learning` `Complex Systems` `Bioinformatics`
`Python` `PyTorch` `TensorFlow`

Sep. 16–Dec. 19 · *Bachelor degree in Physics*, **University of Bologna**

- Thesis titled "Correzioni relativistiche negli atomi idrogenoidi e struttura fine". Supervised by Prof. Roberto Zucchini

`Physics` `Quantum Mechanics` `C++` `ROOT` `LabSim`

Publications

Submitted to MLSys (24)
Lorenzo Sani*, Pedro Porto Buarque Gusmão*, Alex Iacob*, Zhao Wanru, Xinchi Qiu, Yan Gao, Javier Fernandez-Marques, and Nicholas Lane. "Pollen: High-throughput simulation of federated learning via resource-aware client placement".

Submitted to MLSys (22)
Daniel J. Beutel, Taner Topal, Akhil Mathur, Xinchi Qiu, Javier Fernandez-Marques, Yan Gao, **Lorenzo Sani**, Kwing Hei Li, Titouan Parcollet, Pedro Porto Buarque Gusmão, Nicholas D. Lane. "Flower: A Friendly Federated Learning Research Framework"

Dec. 21
Álvarez Federico, Zazo Santiago, Parras Juan, Almodóvar Alejandro, Alonso Patricia, Giampieri Enrico, Castellani Gastone, **Sani Lorenzo**, Rollo Cesare, Sanavia Tiziana, Krogh Anders, Prada-Luengo Íñigo, Kanterakis Alexandros, Sfakianakis Stelios, Cremonesi Francesco. "D6.2 - Preliminary conclusions about Federated Learning applied to clinical data" `https://zenodo.org/record/5862591#.YqCt4tJByEI`

Work Experience

Oct. 23–Dec. 23
Teaching Assistant, *Dept. of Computer Science and Technology, University of Cambridge*

- L46 - Principles of Machine Learning Systems

Jan. 23–March. 23
Teaching Assistant, *Dept. of Computer Science and Technology, University of Cambridge*

- L361 - Federated Learning

Mar. 20–Jun. 20   **Software Specialist**, *Oppent, Milan*

- Development of an Android service app for AGV navigation system interaction.

`C++` `Python` `Java`

Additional Information

Website	`https://relogu.github.io/`
GitHub	`https://github.com/relogu`
LinkedIn	`https://www.linkedin.com/in/lorenzo-sani-373045224`
Google Scholar	`https://scholar.google.com/citations?user=IoCEzUMAAAAJ&hl=en`
Phone	+39 3342220727
Address, UK	UK, Cambridge, Jesus Ln, Jesus College
Interests	Football, Rock Music