Filippo Galli

Pisa, Italy – filippo.galli@sns.it

Education

Scuola Normale Superiore Nov 2020 - Oct 2024
PhD in Data Science, graduated with honors Pisa, Italy
- Thesis: Data Utility and User Privacy in Differentially Private Machine Learning
- Published research in top conferences and journals. Organized and secured funding for seasonal schools. Led collaborative research efforts involving multiple researchers and institutions. Served as Teaching Assistant for Logistics.

Politecnico di Torino Oct 2014 - Apr 2018
M.Sc. Mechatronic Engineering, 108/110 Torino, Italy
- Major: Robotic systems, perception, control and simulation
- International research experiences in top robotics labs and universities

Politecnico di Torino Sep 2011 - Oct 2014
B.Sc. Electrical Engineering, 103/110 Torino, Italy
- Major: Power generation, transmission and utilization

Work Experience

Meta Inc. Jul 2023 - Oct 2023
Research Scientist Intern, Statistics & Privacy Team New York City, NY, USA
- Published research on efficient privacy auditing techniques for large language models (LLMs).
- Developed and integrated privacy auditing tools based on my research into Meta's codebase.

Scuola di Studi Superiori Sant'Anna Aug 2018 - Oct 2020
Research Collaborator, Real-time Systems Laboratory Pisa, Italy
- Researched and optimized AI-driven data center operations, improving efficiency and resource allocation.
- Developed and deployed automation tools for a leading telecom company.

Hackmind Feb 2018 - May 2018
Fellow, Startup Incubation Program Berlin, Germany
- Investigated computer vision applications for agricultural monitoring and automation.
- Conducted market research and feasibility studies, assessing commercial viability.

CERN - European Organization for Nuclear Research Mar 2017 - Jan 2018
Technical Student, Magnetic Measurements Section Geneva, Switzerland
- Programmed `C++` drivers for robotic systems, enabling precise magnetic field mapping in dipoles.
- Contributed to the mechanical design of magnetic measurement systems for CERN experiments.
- Operated precision measurement instruments to analyze LHC magnet performance.

NASA - Jet Propulsion Laboratory July 2016 - Jan 2017
Visiting Researcher Student, Robotics section Pasadena, CA, USA
- Researched and implemented simulation and numerical trajectory optimization for drones using nonlinear MPC.

Additional Information

Relevant courses: Private Equity and Venture Capital, Università Bocconi, Jan 28, 2025
Selected publications: Galli, F., Melis, L., Cucinotta, T. (2024). Noisy Neighbors: Efficient membership inference attacks against LLMs. *PrivateNLP Workshop at ACL 2024*
Patent: European and Italian Patent EP4016963A1 / IT102020000031034, "A method for the resource management of a Network Function Virtualization Infrastructure"
Language Skills: Italian (native), English (fluent), French (basic), German (basic)
IT Skills: MS Office, Python, C/C++, Pytorch, Sciki-learn, Pandas, Numpy, Git, Linux, Cloud Computing (GCP), Kotlin/Java
AI Skills: NLP, LLMs and transformer architectures, computer vision and CNNs, classical and modern machine learning, generative and discriminative models.