PERSONAL INFORMATION   Sara Folchini

Sex F | Nationality Italian

WORK EXPERIENCE

From September 2020

PhD fellowship

Theoretic and Scientific Data Science, International School of Advanced Studies (SISSA)

- Continual Learning, Transfer Learning, Similarity measures for Neural Networks
- Direct Feedback Alignment algorithm
- Bayesian Inference
- Unsupervised learning – dimensionality reduction
- Theory of Neural Networks
- See attachment 3 for list of exams

From September 2019 to September 2020

Employee

Exact Lab

- Parallel computing (MPI)
- Machine Learning (Self-Organising Maps, Leiden Algorithm)
- Web interfaces in python (Flask)
- Frontend libraries (Bokeh, Leaflet)

EDUCATION AND TRAINING

- **From September 2014 to October 2017**   **Phisical Engineering**   105/110

  Politecnico of Torino

  - Digital and Analog Electronics
  - C programming
  - Solid State physics, Nuclear Physics, Quantum Mechanics, Statistical Mechanics,
  - Nanoscience Technologies
  - Mathematical Methods
  - See attachment 1 for the full list of exams

- **From September 2017 to March 2020**   **Quantitative and computational biology**   110L/110

  University of Trento

  - Computational biophysics
  - Trajectory analysis methods
  - Python programming and Data structures
  - Machine Learning theory
  - Genomic data analisys with R
  - Molecular Biology, Biochemistry
  - See attachment 2 for the full list of exams