

Europass Curriculum Vitae



Personal information

Name / Surname

Daniotti Simone

Nationality

Italian

Date of birth

12 03 1994

Gender

Male

Education and training

Dates

2009 - 2013

Name and type of organization
providing education and training

Secondary School focusing on Scientific study "Vittorio Bachelet", Milan, Italy

Dates

October 2014 - February 2018

Name and type of organization
providing education and training

Università degli Studi di Milano, Physics department, Milan, Italy

Title of qualification awarded

Bachelor Degree in Physics

Thesis

Quantum teleportation in the presence of random telegraph noise

Supervisor

Prof. Matteo G.A. Paris

Dates

November 2019

Won University grant to do MSc thesis abroad.

Dates

January 2020 - July 2020

Name and type of organization
providing education and training

Sony Computer Science Laboratories, Paris, France

Contract

Internship

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded
 Thesis
 Internal Supervisor
 External Supervisor
 External Supervisor
 External Supervisor
 Evaluation
 Number of 30L

February 2018 - July 2020
 Università degli Studi di Milano, Physics department, Milan, Italy
 MSc Degree in Physics
 Maximum Entropy Approach For The Prediction Of Urban Mobility Patterns
 Prof. Davide Emilio Galli
 Prof. Vittorio Loreto
 Bernardo Monechi, PhD
 Enrico Ubaldi, PhD
 110L/110
 4
 The list of the exams at the end of the CV.

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded
 Supervisor

December 2020 - April 2021
 University of Utrecht, Utrecht, Netherlands
 ERC Awarded PhD Student in Computational Soft Matter
 Prof. Marjolein Dijkstra

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded

February 2021 - April 2021
 University of Utrecht, Utrecht, Netherlands
 Teaching Assistant in the "Modelling and Simulations" course.

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded

June 2021 - September 2021
 Sony Computer Science Laboratories, Paris
 Research Assistant

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded

October 2021 -Present
 Complexity Science Hub, Wien
 Junior Researcher

Dates
 Name and type of organization
 providing education and training
 Title of qualification awarded

March 2022 -Present
 University of Technology Wien
 PhD Candidate in Computer Science

Spoken languages

Mother tongue
 Other language(s)
Self-assessment
European level^()*

English

Other language(s)
Self-assessment
European level^()*

French

Italian

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

^(*) Common European Framework of Reference (CEF) level

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
A2	A2	A2	A2	A2

Extra-Curricular Activities

Dates	2016 - 2018
Office held	Active Member of AISF UNIMI, local committee of the Italian Association of Physics Students (AISF)
Occupational skills covered	Team working, organisational and public speaking skills
AISF website	http://ai-sf.it

Conferences

CISF Torino 2016 - Spring 2016
Participating to the second Italian Conference of Physics Students, attending conferences and events, making acquaintances

ICPS Malta 2016 - Summer 2016
Participating to the International Conference of Physics Students, attending conferences and events, making international acquaintances

Missions

Conference	September 2-6 2019 Lake Como school of Advanced Studies, <i>Model-Guided Data Science</i>
Name and type of organization providing education and training Conference	January 2021 University of Amsterdam CECAM School "Understanding Molecular Simulations"
Name and type of organization providing education and training Conference	January 2021 NWO (Dutch Research Council) "Physics@Veldhoven 2021"

Publications

Simone Daniotti, Claudia Benedetti, Matteo G.A. Paris, *Qubit systems subject to unbalanced random telegraph noise: quantum correlations, non-Markovianity and teleportation*, Eur. Phys. J. D (2018) 72: 208
<https://link.springer.com/article/10.1140%2Fepjd%2Fe2018-90450-x>

Computer skills

Data analysis skills: during my internship and for my university projects I improved my skills in analysing and taking statistics about the dataset I'm studying, in order to have a solid basement for research purposes.
Databases: SQL based (PostgreS,SQLite)
Experience both on Gnu/Linux based and OS X systems
Good Command in Julia: Agent-Based simulations and Data analysis.

Good command in Python, in particular using data management libraries(for example Numpy, Pandas and Geopandas), machine learning libraries (Scikit-Learn,PyTorch, Tensorflow, Keras) and data representation libraries (Seaborn); focussing on machine learning, I've built and validated models, such as Decision Trees, Ensemble Models, SVM and Deep Neural Networks.

Good Command in C and object oriented C++: during my PhD experience at Utrecht University, I wrote Monte Carlo simulations and Advanced Sampling Techniques, giving the opportunity of improving my coding skills in those compiled languages.

Good capacity in using software development platforms, such as GitHub.

Good command of \LaTeX , awk

Intermediate level Wolfram Mathematica

Good command of Molecular dynamics tools, such as VMD,Gromacs,Lammps

Good command of data analyser software ROOT

Intermediate user of Word, Excel and PowerPoint

Master Degree in Physics		
Exams in Physics Dept.	Grade	CFU
Statistical Mechanics 2	30/30	6
Computational Methods for Physics: Molecular Dynamics	29/30	6
Quantum Theory of Many Body Systems 1	30/30	6
Computational Biophysics	30/30	6
Mathematical Methods for Physics: Geometry And Groups 1	28/30	6
Protein Physics 1	30/30, with honors	6
Classical Electrodynamics	30/30	6
Astronomy 1	30/30, with honors	6
Advanced Statistical Physics	30/30, with honors	6
Theory of Quantum Computation	30/30, with honors	6
Exams in Informatics Dept.	Grade	CFU
Statistical Methods for Machine Learning	28/30	6
Bioinformatics	30/30	6
Weighted Average / Tot	29.58	120
Final Evaluation	110L	120