



Leonardo Salicari

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 - 🌐 Github account
- Born 7 June 1996

EDUCATION

October 2021 - ongoing

Ph.D. in Physics

University of Padua, Department of Physics and Astronomy "Galileo Galilei"

Supervisor: Prof. Antonio Trovato

Topic: *Statistical Mechanics and numerical simulations of topologically entangled proteins*

October 2018 - April 2021

Master's degree in Physics - Statistical Mechanics

University of Padua, Padua, Italy

- Final Score: 110 cum laude
- Thesis: "Folding Mechanisms of Entangled Proteins: Numerical Simulations within Coarse-Grained Structure-based Models"

Selected topics: Stochastic dynamics, Phase transitions and Critical phenomena, Machine Learning (supervised), Data Analysis and Visualization, Non-Equilibrium Statistical Mechanics, Molecular Dynamics, Density Functional Theory, and Biophysics

October 2015 - September 2018

Bachelor's degree in Physics

University of Perugia, Perugia, Italy

- Final Score: 110 cum laude

TALKS/POSTERS

Talks

- Webinar for BioExcel with the title *Folding Mechanisms of an Entangled Proteins* (May 2022)
- Talk about folding of small Entangled proteins and the use of the Gaussian entanglement as a meaningful collective variable (Physics of Biomolecules: Structure, Dynamics and Function; September 2022)

Posters

- One of the top three Research Posters at the remote *BioExcel School on Biomolecular simulations* with title *Folding Mechanisms of Entangled Proteins* (April 2022)

PUBLICATIONS

- "Folding kinetics of an entangled protein", L. Salicari, M. Baiesi, E. Orlandini, F. Seno, A. Trovato, *manuscript in preparation*

MAJOR RESEARCH INTERESTS

Statistical Mechanics, Computational Biology, Machine Learning, Complex Systems

SKILLS

Languages

- Italian – Native speaker
 - English – level C1 *European language levels*
- Academic English Course (30h) - UNIPD Language Center

Programming languages

Python, C++, JavaScript, and L^AT_EX

Softwares

LAMMPS, PyMol, VMD, GROMACS