

STEFANO CROTTI

PROBABILISTIC MODELLING
SCIENTIFIC COMPUTING



CONTACT

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🌐 [Personal website](#)

🐙 [GitHub](#)

in [Linkedin](#)

SOFTWARE

- Python, Julia, MATLAB
- pandas, scikit-learn, pytorch
- VSCode, Git, GitHub, Jupyter Notebook, Unix CLI

LANGUAGES

- English (Professional)
- Italian (Mother tongue)
- French (Fluent)
- Spanish (Intermediate)



PROFILE

I am a physicist with an **interdisciplinary education** in modelling of complex systems, experience with **scientific software** development, interested in **computational challenges**.



WORK EXPERIENCE

Postdoctoral Researcher 2025-present
CEA Paris-Saclay

- Building generative models of functional RNA sequences
- Combining biophysical insight with computational techniques
- Working with data from artificial evolution experiments

Salesperson 2017
Decathlon Italia

- My first work experience with customers



OPEN SOURCE PACKAGES

- [TensorTrains.jl](#): lightweight and robust Tensor Network logic
- [BeliefPropagation.jl](#): an algorithm for Bayesian inference on graphs
- [IndexedGraphs.jl](#): a graph library with efficient edge indexing



EDUCATION

PhD in Physics 2021-2025
Polytechnic University of Turin, Italy

- Bayesian inference of Markov processes
- Developed a Matrix Product States-based approximation
- Published in [PNAS](#)

MSc in Physics of Complex Systems 2018-2020
Polytechnic University of Turin, Italy

Grade: 110/110 cum laude

Diploma in Innovation and Entrepreneurship 2018-2021
Alta Scuola Politecnica, Italy

A Multidisciplinary [international honour program](#)

BsC in Electronic Engineering 2015-2018
Polytechnic University of Turin, Italy

Grade: 110/110 cum laude