

# STEFANO CROTTI

PROBABILISTIC MODELLING  
SCIENTIFIC COMPUTING



## CONTACT

✉ [s.crotti@outlook.com](mailto:s.crotti@outlook.com)

🌐 [Personal website](#)

GitHub

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