

Lorenzo Contessi

Physicist in nuclear theory, modeler,
expert in numerical predictions.



Profile: I am a physicist working in the modeling and simulation of complex phenomena. The years spent in academia taught me to see patterns in complexity, which I use to develop models in various scientific contexts, such as nuclear, cold atoms, and hadronic systems. I have a theoretical but practical approach, and I enjoy developing codes (HPC and OOP) and using numerics to test my hypotheses and extract predictions.

I am a flexible and independent researcher accustomed to structuring research projects, from writing proposals to delivering the final product. I enjoy new challenges that require analytical thinking, developing new methods, and acquiring new competencies.

Key skills

Classical and quantum Monte Carlo

Project management

Statistical and bayesian analysis

Scientific communication
- written and oral -

Python

C/C++

Mathematica

Public speech and
seminar presentation

Matlab

Fortran

SQL

Academic achievements & education

— Postdocs —

2021/24 IJCLab In2p3
CNRS

2019/21 ESNT / CEA

2017/19 Racah Institut
IL

— Ph.D. —
2017 Trento, IT

Degree: BAC+Master in theoretical physics, Trento IT, 2013

Diploma: electronic and telecommunication technician, 2008

- 13+ peer review articles — [Inspire](#) — (10 first author and 6 Letters)
- 4 international workshops organization
- 10+ invited international talks
- Several contribution talks to conferences
- 3 thesis supervisions: 2 Ph.D. and a bachelor
- Referee for PRL, Rev. Mod. Phys., EPJA, Nucl. Sci. Tech.
- Teaching experience:
 - Mechanic et électro/magnéto-static / dynamic teaching assistant and university tutor (3 years).
 - Monte Carlo course at CEA
- Qualified for Maître de Conférences in 2023



Born 25/07/1989

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Inspire: [1277633](#)

Languages

Italian: ★★★★★

English: ★★★★★

French: ★★★

International exposition

Born in **Italy**
Resident in **France**

I worked or lived also in:

Israel **U.S.A.**
Germany **Japan**

Soft skills

Quick-thinker
Problem simplification
Naturally curious
Skill transfer
Autonomous

Beyond work

I am an active person (fencing, gym), I like also strategy board games, and organizing private events