






Daniele Gregori

Researcher, teacher
and software developer

 21 November 1992

 Brescia, Italy

 <https://inspirehep.net/authors/1030877>

 dangregori@gmail.com

About me

Postdoctoral researcher in mathematical, computational and theoretical physics.

Studying new mathematical methods, to empower the search of new physics, especially gravitational waves observations.

Developing algorithms and neural networks to analyse "deep data", such as research papers, in a novel modern way.

Experience in academic writing, teaching, conference speaking and science outreach.

Skills

Mathematical Research

Academic Writing

Seminars & Outreach

Teaching

Programming & Data Science

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

1. Academic research and teaching on physics and mathematics.
2. Data science and program development.

Education

2018-2022	University of Bologna Ph.D. in Theoretical Physics	Ph.D.
2014-2018	University of Bologna Master degree in Theoretical Physics with grade 110 e lode/110	Master degree
2011-2014	University of Bologna Bachelor degree in Physics with grade 110 e lode/110	Bachelor degree
2006-2011	Scientific High School Leonardo, Brescia Completed with grade 98/100	High school
2003-2010	Music Conservatory Luca Marenzio, Brescia Lower piano degree (fifth year) completed	Conservatory

Academic Research Experience

2024 (6 m.)	Postdoctoral researcher at the Institute for Advanced Study, Soochow University (Suzhou, China). Referee: Prof. Rui-Dong Zhu.
2023	Postdoctoral researcher at Nordita, the Nordic Institute for Theoretical Physics (Stockholm, Sweden). Referee: Prof. Konstantin Zarembo.
2021 (6 m.)	Ph.D. visiting fellow at Nordita. Hosts: Prof. Konstantin Zarembo, Dr. Hongfei Shu.
2018-2022	PhD student at the University of Bologna (Thesis: Quantum integrability as a new method for exact results in N=2 supersymmetric gauge theories and black holes, supervisor: Prof. Davide Fioravanti).
2017-2018	Research master thesis (N=2 Gauge Theories from the ODE/IM Correspondence Perspective, supervisor: Prof. Davide Fioravanti).

Software Development Experience

2024	Development of Wolfram Paclet ArXivExplore and corresponding talk at Wolfram Virtual Technology Conference.
2022-2023	Scientific advisor and data scientist (Company: Scriba Brescia).

Teaching Experience

2022	Teaching assistant at University of Bologna Teaching tutor in classical physics, modern physics, calculus and linear algebra to Engineering, Economics and Physics bachelor and master students.	University teaching
2015-2018	Private teacher Private teacher of math and physics to bachelor and other students.	Private teaching

Other informations

Awards: best poster award at international workshop IGST 2022 (Integrability in Gauge and String Theory, 29th July 2022, Budapest, Hungary).

Grants: Angelo Della Riccia Foundation fellowship 2023 (19,000 €).

Conference speaking: 18 talks and 6 posters presented at international scientific conferences, workshops and meetings.

Programming: extensive programming experience in Wolfram, basic knowledge of C++ and Python. Some code repositories at: github.com/Daniele-Gregori.

Languages: mastery of English and Italian; fundamentals of German and Arabic.

Outreach: continuing science outreach activity on Instagram @danielgreg.hepth and contribution to the book "From Lab to Life" (Beyond Science Magazine).

Social skills: responsibility, seriousness, justice, kindness.