



Daniele Gregori

Researcher, teacher
and software developer



21 November 1992



Brescia, Italy



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About me

Freelance software developer and data scientist. Building deterministic and machine learning algorithms to analyze and handle deep data.

Formerly postdoctoral researcher in theoretical physics, studying new mathematical methods to empower the search of new physics.

Substantial experience in scientific research, academic writing, teaching, public speaking, programming, software development, data science.

Skills

Mathematical Research

Academic Writing

Seminars & Outreach

Academic Teaching

Development & Data Science

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

Scientific Education

- | | | |
|-----------|--|---------------------|
| 2014-2018 | University of Bologna | Master of Science |
| | Master degree in Theoretical Physics with grade 110 cum laude/110. | |
| 2011-2014 | University of Bologna | Bachelor of Science |
| | Bachelor degree in Physics with grade 110 cum laude/110. | |
| 2006-2011 | Scientific High School Leonardo, Brescia | High school |
| | Completed with grade 98/100. | |

Research Experience

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|-------------|--|-----------------------|
| 2024 (8 m.) | Institute for Advanced Study, Soochow University Suzhou, China. Referee: Prof. Rui-Dong Zhu. | Postdoc researcher |
| 2023 | Nordic Institute for Theoretical Physics Stockholm, Sweden. Referee: Prof. Konstantin Zarembo. | Postdoc researcher |
| 2021 (6 m.) | Nordic Institute for Theoretical Physics Stockholm, Sweden. Hosts: Prof. K. Zarembo, Dr. H. Shu. | Ph.D. visiting fellow |
| 2018-2022 | University of Bologna
Ph.D. in Mathematical Physics. Advisor: Prof. Davide Fioravanti. | Ph.D. candidate |

Teaching Experience

- | | | |
|-----------|---|--------------------|
| 2022-2026 | University of Bologna
10+ courses: lin. algebra, calculus (I,II), physics (I,II,modern), math. physics III, math. methods for AI, to bachelor and master students. | Teaching assistant |
| 2015-2018 | Private teaching
Teacher of math and physics to high school and bachelor students. | Private teacher |

Development Training

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|-------------|---|--------------------------|
| 2025 (7 m.) | Imperial College London
Professional Certificate in Machine Learning and Artificial Intelligence | Professional Certificate |
| 2024 (2 m.) | Wolfram Research
Neural Networks Bootcamp | Certificate |
| 2022 (2 m.) | Wolfram Research
Data Science Bootcamp | Certificate |

Development Experience

- | | | |
|-----------|--|----------------------|
| 2025-2026 | Datalogos
Freelance data scientist, software and web developer. | Freelance developer |
| 2024-2026 | Wolfram Research
Development of 10+ Wolfram resource functions and paclets. | Software contributor |
| 2022-2023 | Scriba Brescia
Scientific advisor and data scientist (part-time). | Data scientist |

Other Information

Awards: Best Poster Award at international workshop Integrability in Gauge and String Theory 2022 (Budapest, Hungary).

Contests: Physics Olympiad National Qualifier (2011, Senigallia, Italy).

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

Publications: 6 scientific publications with over 150 total citations: Inspire HEP.

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

Programming: Extensive programming experience in Wolfram language, good knowledge of C++, Python, SQL, TeX, HTML, CSS: github.com/Daniele-Gregori.

Languages: Fluent English and Italian, fundamentals of Arabic and German.

Outreach: Contribution to the book "From Lab to Life" (Beyond Science Magazine).