



Daniele Gregori

Researcher, teacher
and freelance developer



Brescia, Italy



<https://datalogos.ai/>



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About me

Freelance data scientist and software developer, 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.

Experience in scientific research, academic writing, teaching, public speaking, programming, software development, data science, and computational language design.

Skills

Mathematical Research

Scholarly Writing

Public Speaking

Academic Teaching

Programming & Data Science

Software & System Design

Entrepreneurship

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

Education

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|-----------|--|---------------------|
| 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 | Liceo Scientifico Leonardo, Brescia | High School |
| | Scientific high school completed with grade 98/100. | |
| 2003-2010 | Music Conservatory Luca Marenzio, Brescia | Conservatory |
| | First level (5th year) piano degree completed with grade 8.6/10. | |

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

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|----------|---|--------------------|
| 2022-Now | 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 |
|----------|---|--------------------|

Development Training

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|-------------|--|----------------|
| 2025 (7 m.) | Imperial College London
Professional Certificate in Machine Learning and AI. | Certificate |
| 2021-2024 | Wolfram Research
10+ Wolfram U certifications (of which 6 at Level I, 2 at Level II). | Certifications |

Development Experience

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|-----------|--|----------------------|
| 2025-Now | Datalogos
Freelance data scientist, software and web developer. | Freelance Developer |
| 2025-2026 | Python Package Index
Development and maintenance of 8 PyPI packages. | Software Contributor |
| 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 academic publications with over 150 total citations: Inspire HEP.

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

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

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

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