

Alejandro García Soria

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ABOUT ME

I am a physicist and mathematician with a strong academic background in theoretical modelling, data analysis, and applied mathematics. I hold a Dual Bachelor's in Physics and Mathematics and am completing a Master's in Theoretical Physics at the Instituto de Física Teórica (IFT, CSIC-UAM), with a focus on quantum gravity and hydrodynamics via the AdS/CFT correspondence. My work integrates analytical thinking, programming, and statistical tools—skills I am excited to apply in data-driven environments beyond academia.

RESEARCH EXPERIENCE

JAE INTRO – CSIC | RESEARCH INTERN IN THEORETICAL PHYSICS
Nov 2024 – Feb 2025 | IFT – CSIC, Madrid

- Conducted supervised research in quantum gravity and machine learning.
- Studied the viscosity-to-entropy ratio in strongly coupled systems using the AdS/CFT correspondence.
- Gained first-hand experience in theoretical physics research and collaborative code-based workflows.

IFT – CSIC | MASTER'S RESEARCH PROJECT
2025 | Madrid, Spain

- Thesis on quantum gravity, hydrodynamics, and the AdS/CFT correspondence.
- Developed skills in analytical modelling, high-level mathematics, and scientific computing.

ACADEMIC PROJECTS

BACHELOR'S THESIS – PHYSICS | GR, BLACK HOLES AND WORMHOLES
2023 | University of Oviedo

- Investigated exotic spacetime geometries in General Relativity.

BACHELOR'S THESIS – MATHEMATICS | DYNAMICAL SYSTEMS AND HOPF BIFURCATION
2023 | University of Oviedo

- Studied bifurcations in nonlinear systems using analytical techniques.

OTHER EXPERIENCE

PRIVATE TUTOR | MATHEMATICS AND PHYSICS
2022 – Present | Oviedo & Remote

- Tutored students in quantitative reasoning and technical subjects.

CONTACT

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EDUCATION

AUTONOMOUS UNIVERSITY OF MADRID (UAM)

M.SC. IN THEORETICAL PHYSICS (IFT-CSIC)

2024 – 2025 | Madrid

Specialization in particle physics and cosmology.

Thesis on AdS/CFT, quantum gravity, and hydrodynamics.

UNIVERSITY OF OVIEDO

DUAL B.SC. IN PHYSICS AND MATHEMATICS

2018 – 2023 | Oviedo

Final GPA: 8.78 in Physics.

Theses in GR and Dynamical Systems.

SKILLS

PROGRAMMING

Python • Matlab • R
LaTeX • Git • Bash

DATA & ANALYSIS

Numerical modelling
Symbolic computation
Machine learning (basic)

LANGUAGES

Spanish (Native)
English (C1 – Cambridge Certified)
French (Basic)

OTHER

Microsoft Excel, Word, Outlook
Strong analytical and quantitative reasoning
Driving license (EU)