

Núria Navarro

✉ nurianav (at) proton (dot) me | 🏠 nurianav.github.io

Personal Profile

I'm a passionate physics graduate student fascinated by the nature of the Universe. My main goal is to understand it as much as I can through physics, mathematics and philosophy. The topics I find most exciting are General Relativity and Quantum Field Theory and I'm interested in pursuing an academic career in High Energy Physics, in particular String Theory and other quantum gravity theories.

I'm a hard-working, creative, multi-talented person gifted with a quick learning capacity and a strong curiosity.

Education

Open University of Catalonia

Philosophy for Contemporary Challenges

Remote

September 2023 - January 2024


- **Courses:** Contemporary Philosophy and The problem of meaning.

The Hebrew University of Jerusalem

MSc in Physics

Jerusalem, Israel

March 2022 - December 2023

- **Thesis:** The surviving remnants of red giants after a partial tidal disruption event, supervised by Tsvi Piran 
- **Technical skills:** Modules for Experiments in Stellar Astrophysics (MESA), SLURM, Python, Fortran, Shell scripts
- **Courses:** Quantum Field Theory I and Feynman Diagrams, Quantum Field Theory II, Statistical Mechanics, Phase Transitions, Advanced Quantum Theory, Advanced Astrophysics: Stellar structure and evolution, Particle Cosmology, Nonlinear Dynamics and Chaos.

Universitat de Barcelona

Theoretical Physics

Barcelona, Spain

Sept 2013 - June 2020

- **Thesis:** Black Holes in Higher Dimensions, supervised by Roberto Emparan . Qualified with the highest grade and honors.

Work Experience

Academia ASES

Undergraduate teacher

Barcelona, Spain

Sept 2018 - Dec 2022

- Taught the subjects Calculus, Multivariable calculus, Mathematical methods 1 (Probability and Complex variable), Classical Mechanics.

Timepath S.L

Junior Developer

Barcelona, Spain

2018

- Development of the project website. Building an API that connects between a scene in Unity3D and an AI via Node.js. Integration of a Unity3D scene in VR for web environments.
- **Technical skills:** Node.js, websockets, C#, Unity, Git, CSS, HTML, PHP, Javascript.

Others

Poker Dealer, Secretary, Inventory supervisor

Barcelona, Spain

2013-2017

Skills

Programming Python, Fortran, HTML/CSS, JavaScript.

Miscellaneous Linux, Shell (Bash/Zsh/Csh), Docker, Git, \LaTeX , Microsoft Office, Notion, Obsidian, Adobe package, WordPress, MESA.

Soft Skills Strategic planning, Writing skills, Engaging presentation, Nonviolent communication, Social skills, Critical thinking.

Interests

Piano I play since I was 5 years old.

Art I enjoy many forms of art. I like drawing, knitting, doing ceramics, dancing, performing and writing.

Yoga and meditation I am an Ashtanga yoga practitioner, and I like Vipassana meditation.

Languages

Catalan Native

Spanish Native

English Fluent

Hebrew Fluent

Italian Working proficiency

Japanese Elementary (Noken 3)

German Elementary

References available upon request.