

Miguel García Gómez

Theoretical Physicist



About me

Highly responsible and passionate to accomplish objectives. Well-versed in communicating and with strong organizing and time management skills. Self-driven by an innate sense of curiosity, which leads me to constantly seek knowledge and explore new ideas with an open mind and a desire for growth. Areas where my curiosity embraces me to keep on learning range from Generative Artificial Intelligence, LLMs, Machine Learning, Data Analysis, Blockchain Technology, Quantum Computing and Complex Systems among many others.

Contact

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- Miguel García
- Car Available, Driving License B

Languages

- Spanish - Native Language
- Catalan - Native Language
- English - Professional Knowledge
- French - Basic Knowledge
- Chinese - Basic Knowledge

Download my CV, Projects & Certificates



EDUCATION

2019-2024



Physics Degree
Universitat de Barcelona
Faculty of Physics

Barcelona

Specialized in Fundamental Physics with the following optional subjects:

- Computational Physics
- Statistical Physics
- Theoretical Mechanics
- Electrodynamics
- Physics of Continuous Media
- Quantum Mechanics (QM)
- General Relativity
- Astrophysics & Cosmology
- Atomic Physics & Radiation
- Nuclear & Particle Physics
- Collective Phenomena and Phase Transitions
- Classical & Quantum Information Theory
- Magnetism & Superconductivity
- Many-Body QM & Ultracold Systems
- High Energy Physics & Accelerators
- Gender, Science & Technology

2017-2019



Scientific Baccalaureate
Hamelin-Laie International School

Montgat

Rewards obtained:
-Honorable mention in Technological Modality
-Honorable mention in English Language

WORK EXPERIENCE

2022-2023



Part-Time Sales Assistant
Snipes, Carrer de la Portaferriassa, 15

Barcelona

Groupal Accomplishments:
-2022 Best Regional Sales Performance
-3x Team of the Month of Spain

Personal Accomplishments:
-2x S2H Leader
-7x Top 4 Overall A2 Leader
-6x Top 4 Best Overall Monthly Performance

INFORMATION TECHNOLOGY SKILLS

Programming Languages

Fortran: ★★★★★
Python: ★★★★★

Python Libraries

NumPy: ★★★★★ TrackPy: ★★★★★
Pandas: ★★★★★ Regex: ★★★★★★

Data Analysis Tools

Jupyter Notebook: ★★★★★
Spreadsheets (Google, Excel): ★★★★★

Visualization Tools

Gnuplot: ★★★★★ Powerpoint: ★★★★★
Matplotlib: ★★★★★ Power Bi: ★★★★★★







Document Processing

LaTeX: ★★★★★
Markdown: ★★★★★

Personality Traits



Other Interests

- Music 
- Movies 
- Gym 
- Podcasts 
- Travels 
- Books 

ACADEMIC PROJECTS

Bachelor Thesis 2024	Kinematic Exploration of Ring-Armored Self-Propelled Robots , Miguel García, <i>End-of-Degree Project</i> .
Review Article 2023	Positron Annihilation into Dark Matter Experiment , Miguel García & Pau Pagès, <i>High Energy Physics</i> .
Research Article 2023	Simulació Numèrica per l'Estudi de la Transició de Fase en un Sistema 2D , Miguel García, <i>Collective Phenomena and Phase Transitions</i> .
Research Article 2022	Introducció a la Microfluídica , Miguel García, <i>Physics of Continuous Media</i> .
Scientific Showcase 2019	Panel Solar Auto Orientado , Miguel García, <i>XX Exporecerca Jove</i> .

All projects are viewable and can be downloaded directly via the hyperlinks or via the QR code on the previous page.

CERTIFICATES & SKILL TRACKS



Google Data Analytics Professional Certificate (Ongoing)

1. Basics: Data, data, everywhere (*Coursera, March 2024*)
2. Ask questions to make data-driven decisions (*Coursera, April 2024*)
3. Prepare data for exploration (*Coursera, May 2024*)



Introduction to Quantum Computing (*IBM SkillsBuild, April 2024*)



AI Fundamentals Certification

1. Understanding AI (*DataCamp, March 2024*)
2. ChatGPT Fundamentals (*DataCamp, April 2024*)
3. Understanding Machine Learning (*DataCamp, April 2024*)
4. Large Language Models (LLMs) Concepts (*DataCamp, April 2024*)
5. Generative AI Concepts (*DataCamp, April 2024*)
6. AI Ethics (*DataCamp, April 2024*)



Generative AI (*Santander Open Academy, February 2024*) Introduction to Data Science (*Santander Open Academy, March 2024*)

All certificates are viewable directly via the hyperlinks or via the QR code on the previous page.