

Jose Ignacio Ramírez Fuentes

📍 Málaga, Spain ✉ nramirez@uma.es ☎ +34 679 638 348 🔗 nramirez.es 🌐 nramirez-f

About Me

I'm Nacho, a mathematician and software developer living in Málaga. I aim to specialize in numerical methods for conservation laws and computational fluid dynamics, while also maintaining an interest in full-stack web development. I've taught math, IT, and programming. With a background in mathematics and education, I'm passionate about problem-solving, coding, and sharing knowledge.

For more info about me visit my [Webpage](#) [🔗](#).

Experience

Research Assistant

University of Malaga

Málaga, Spain

Apr 2024 – Present

- I have studied core concepts of Fluid Dynamics and Conservation Laws, specially for the Riemann problem
- Automated the extraction and processing of large climate datasets from API using Python scripts
- Managed the maintenance, optimization, and migration of PHP-based CMS platforms like Joomla and WordPress, ensuring stability, security, and performance

Full Stack Developer

Cloudari

Madrid, Spain

Apr 2023 – Apr 2024

- Managing relational databases using SQL and phpMyAdmin
- Integrated APIs with AJAX and JavaScript for dynamic web applications
- Developed back-end solutions in PHP, ensuring functionality and performance
- Design of front-end interfaces with HTML, CSS, Bootstrap, and JavaScript
- Implemented version control workflows using Git for team-based development and codebase management

High School Teacher

C.D.P. Santa María De Los Ángeles

Málaga, Spain

Sept 2023 – Dec 2023

- Taught mathematics, focusing on arrays, calculus, and problem-solving for first-year pre-university student
- Instructed C++ and HTML5 programming, covering fundamental concepts for last-year high school students
- Managed and maintained the school's IT infrastructure, ensuring optimal performance and security

Education

University of Malaga

MS in Mathematics

Sept 2022 – Dec 2024

- **Coursework:** Navier-Stokes Equations. Theory and Numerical Implementation

University of Malaga

Master in Secondary and Higher Education (sp. Mathematics)

Sept 2022 – July 2023

University of Malaga

BS in Mathematics

Sept 2017 – July 2022

- **Coursework:** Z-Transform and applications to signals and systems

Certifications

Fundamentals of Accelerated Computing with CUDA C/C++

NVIDIA Deep Learning Institute

[See title](#) [🔗](#)

Relational databases and data modeling

Nebrija University

[See title](#) [🔗](#)

PHP Language

Intalencia Innovation

[See title](#) [🔗](#)

Projects

Lid-Driven Cavity

[GitHub](#) 

- Simulation of the Lid-Driven Cavity problem using the Navier-Stokes equations for incompressible fluid flow and the Fractional Step Method

Technologies

Languages: Python, C, C++, SQL, HTML5, R, JavaScript

Frameworks & Tools: Git, GitHub, PhpMyAdmin, Visual Studio Code, Bootstrap, Tailwind CSS