



Junhao Liu

UPC Math & Computer Science

Dual-degree student

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(exact location is masked), Barcelona

ABOUT ME

I naturally convey enthusiasm, especially when engaged in learning, problem-solving, or communicating with others. When facing challenges, I approach them with patience and perseverance to drive projects forward—a skill reinforced by my experience caring for my two younger siblings and babysitting my niece.

Currently, I am eager to contribute to projects that expand my knowledge in Computer Science. With a strong mathematical mindset, I am particularly interested in AI, Big Data, algorithms, and other cutting-edge technologies.

LANGUAGE SKILLS

4-polyglot: Chinese (native), English (Cambridge C1-level), Spanish and Catalan (almost 10 years living in Barcelona, C1-certified through High School graduation).

Self-learning French as a hobby (currently A2 level).

HIGHLIGHTS & HOBBIES

- Participated in *Bojos per les Matemàtiques*, a selective math discovery program for teenagers, admitted among 30 students from over 1,000 applicants in Catalonia.
- My High School project, related to Physics teaching through videogames, was published in a book by the *Jornada Científica de Catalunya*, a science journal for teenagers.
- Decent piano-playing skills (and continuously improving it).

STUDIES

September 2023 – Present
(estimated finish date: Spring 2028)

UPC Polytechnic University of Catalonia
CFIS Interdisciplinary Higher Education Center

Dual-degree: Degree in **Mathematics** & Degree in **Computer Science**. It is provided by the CFIS faculty in UPC. GPA in the first year (out of 10): 9.18.

Some of the acquired knowledge:

- Mathematical Optimization algorithms; combinatorial thinking
- Microcontroller programming characteristics and application; MIPS assembly language
- C++ data structures and algorithms
- General database manipulation using SQL

September 2021 – May 2023
High School: INS Ventura Gassol

Graduated from High School with a GPA of 9.01 (out of 10), achieving a perfect 10 in Physics on the University Entry Exam (entry grade: 12.39 out of 14).

RELATED EXPERIENCE

Web Developer (summer 2021)

Developed a custom presentation and interactive menu website for a sushi restaurant from scratch using HTML, CSS, and JavaScript to fully meet the client's needs. Hosted statically on GitHub for cost efficiency and assisted with domain registration (nuevoaromakaori.com). The site dynamically retrieves data from a JSON file stored in a GitHub subdirectory to generate HTML table content.

Webpage designer & programming (spring 2022)

Developed a presentation website for a ramen restaurant using Bootstrap for desktop compatibility. Though the project was completed, the owner ultimately chose not to continue hosting the page.

LABORAL EXPERIENCE

- Apple retail store promoter*: 4 months of part-time job (during university studies). Assisted customers by answering their questions about Apple products and recommending the most suitable options.
- Restaurant waiter* (full-time, for a few summers, in different restaurants): handled phone calls and reservations, communicated with customers for dish recommendations, served dishes and prepared drinks.