

Mar Roca Cugat

WORK EXPERIENCE (7)

PostNL, Heerlen — *Postwoman*

APRIL 2023 – PRESENT

Flink, Maastricht — *Supermarket deliverer*

MARCH 2023 – PRESENT

This work involved me delivering supermarket orders on an electric bicycle.

Greylight Projects, Heerlen — *Museum attending*

OCTOBER 2022

My duties involved managing the space during my shifts, taking care of guests at a Greylight Projects exhibition, explaining details about it and answering guests' questions.

PGamerX Legacy, Virtual — *Automatism software developer and technician*

NOVEMBER 2021 – SEPTEMBER 2023

This work involved me developing software, updating and maintaining a service online. This service is dedicated to serving requests via an API with appropriate responses, using artificial intelligence in some applications, to the users who authored the requests.

La Caixa d'Eines, Sant Celoni, Catalonia, ES — *Scientific divulgation and instructor*

SEPTEMBER 2022 – JUNE 2023

This employment involves me assisting in post-school scientific and engineering classes to primary and secondary school students by developing my own set of experiments and experiences, as well as preparing the related theoretical lessons.

Brandon MrAuthor¹, Virtual — *Scientific proofreading*

JUNE 2020 – AUGUST 2020

This employment involved me proofreading a novel for scientific inaccuracies and inconsistencies. The novel is based in the field of marine biology and general laboratory practices.

LANGUAGES (5)

Catalan: Native

Spanish: Native

English: C2 (Certified by Cambridge English)

French: A2 (Certified by DELF Scolaire)

Esperanto: A1 (not certified)

Dutch: A1, learning further (UM Language Center)

PROTOCOLS DESIGNED (2)

Sampling from a nasal source in order to culture bacteria

Peer-reviewed by Professor Olga Sánchez (UAB, UdG).
dx.doi.org/10.17504/protocola.ls.io.81wgb6pk1pk/v10

IB BIO SL IA M23 - A study on the conditions that affect yeast fermentation

dx.doi.org/10.17504/protocola.ls.io.261geny6jg47/v2

¹ Pen name

Something.host, Virtual — *Technical support and sales*

SEPTEMBER 2020 – JANUARY 2021

This employment had me responding to virtual tickets submitted by clients to help them with technical problems in their servers, or help them get the most adequate product for their needs.

EDUCATION, TRAINING, AND DIPLOMAS (10)

Maastricht University — *WBO Biomedical Sciences*

BACHELOR | SEPTEMBER 2023 – (EXPECTED) AUGUST 2026

“The bachelor's programme in Biomedical Sciences explores how the human body works in day-to-day life, during periods of illness, while ageing and while performing to the very best of its ability. The relationship between human beings and their environment from molecule, to gene, to cell and organ, to individual and to entire populations is studied. The programme is often described as the ‘research side of medicine’.” (maastrichtuniversity.nl)

Maastricht University — *Social Dutch (1 and 2) – 2 ECTS*

NON-CURRICULUM COURSE | NOVEMBER 2023 – MARCH 2024

This course aims to teach basic Dutch knowledge levels, focusing on speaking and interaction, but not much on grammar.

Maastricht University — *Introduction to programming in Python*

NON-CURRICULUM COURSE | SEPTEMBER 2023 – FEBRUARY 2024

“In this 14-week-long module, students learned and practised necessary programming skills for building an AI application.” (Course description)

Maastricht University — *Basic Course Quality Assurance for SEP Members*

TRAINING WORKSHOP | DECEMBER 2023

This workshop for training course quality assurance addressed how to identify educational quality, how to distinguish between quality assurance and quality enhancement, gave us instruments for quality assurance, and proper ways of providing feedback, as well as criteria for evaluating assessments.

Departament d'Educació de Catalunya + IBO — *Título de Bachiller + IBO Diploma Programme*

COURSE | SEPTEMBER 2021 – JUNE 2023

This double certificate includes both the standard Spanish Bachiller syllabus, and the IBO DP syllabus, allowing me to be graded by both official organizations. The IB diploma requires an Internal Evaluation

SKILLS

EU Digital Skills Test:

Advanced (6/6 on all tests)

Computer programming:

Python (intermediate)

JavaScript (intermediate)

Webdev (intermediate)

Linux systems (proficient)

Presentation skills:

Proficient

VOLUNTEERING EXPERIENCE (8)

HackClub – *Club Organization*

SEPTEMBER 2022 – AUGUST 2023

This volunteering project involves me organizing a club for the promotion of computer sciences at school.

Ins. JVV – *School networks*

SEPTEMBER 2021 – JUNE 2022

This volunteering project put me in charge of taking pictures for sharing in the school's social networks, as well as helping run them.

Ins. JVV – *Natural History Collection maintainer*

SEPTEMBER 2021 – JUNE 2022

This experience had me create an inventory of all the naturalized animals in the school's collection, brush their fur if needed, clean them up if needed, tag them, photograph them and check their condition.

Ins. JVV – *School library maintainer*

(research essay) to be performed for each subject, as well as an External Evaluation (written exams).

The subjects evaluated by IB were:

- Analysis and Approaches (**Mathematics**) HL²
- **Physics** HL
- **Biology** SL + EE³
- **Chemistry** SL⁴
- Catalan A: **Literature** HL
- **English** B SL
- **Philosophy** SL
- Theory of Knowledge (**Epistemology**)

The subjects evaluated by the Spanish Bachiller were:

- **Catalan** language and literature
- **Spanish** language and literature
- **English** language
- Catalan and Spanish **history**
- Scientific **mathematics**
- **Biology**
- **Physics**
- **Chemistry**

Universitat Autònoma de Barcelona— “Els Dissabtes de la Física 2023” (The Physics Saturdays 2023)

COURSE | FEBRUARY 2023 - MARCH 2023

“The Physics Saturdays are a set of meetings to get to know the world of physics first hand. Every year the [UAB] department schedules a series of conferences related to the present and future of physics. We supplement the meeting with activities, presentation of the degrees in which the department participates and visits to the laboratories. The last Saturday is scheduled jointly with the Mathematics Saturdays” (uab.cat)

Universitat Autònoma de Barcelona— “Microbis i jo” (Microbes and I)

COURSE | JUNE 2021 - JULY 2021

This week-long course is an in-depth course to the basic laboratory operations in a microbiological laboratory, up to Biosecurity Level 2 handling. Each day consisted of 6 hours in the laboratory, plus 2 of theoretical learning. In total, the course had a duration of 40 hours, 30 of which were in a laboratory.

SEPTEMBER 2021 – JUNE 2022

This experience had me help organise the books in the school library, as well as lending them out to students who wanted to borrow them.

Escola Annexa - Lèxcit volunteer

SEPTEMBER 2021 – JUNE 2022

Lèxcit is a Catalonia-wide project to employ volunteering high-school students to help primary-school kids learn how to read, as well as improving their reading skills.

Escola Annexa - English teaching assistant

SEPTEMBER 2021 – JUNE 2022

This experience had me shadow a primary-school English teacher two hours per week to help them run the classes, as well as organise games and other educational and recreational activities to do with the students.

Student Association Helix - Committee treasurer

OCTOBER 2023 – JUNE 2024

I manage the budget, and help organise activities for the Wellbeing committee of the Biomedical Sciences Student Association Helix, at Maastricht University

² HL: High Level

³ EE: Extended Essay (Research project)

⁴ SL: Standard Level

Cambridge English — Cambridge Level 3 Certificate in ESOL International (Advanced/CAE)

CERTIFICATE | JANUARY 2021

Grade A with a level of 202: 208 points in reading, 202 points in use of English, 190 points in writing, 210 points in speaking, and 199 points in speaking; out of a maximum of 210 points for this exam. This corresponds to an English level of C2 in the CEFR scale.

Alliance Française — DELF Scolaire A2

CERTIFICATE | NOVEMBER 2021

Grade 90/100. This certificate was awarded in February 2022, following the exam in May 2021.

Departament d'Educació de Catalunya — ESO (secondary school) graduate certificate

COURSE | SEPTEMBER 2017 – JUNE 2021

This certificate indicates that I graduated from high school (following the Spanish system) with an average grade of 8,48 out of 10.

AWARDS, COMPETITIONS, AND GRANTS (6)

Hackers@UPC — HackUPC 2022 & HackUPC 2023

HACKATHON | MAY 2022 and MAY 2023

Once a year, the programming student association Hackers@UPC organises the biggest physical hackathon for students in Barcelona. I have participated in both the 2022 and 2023 editions, and I have applied to participate in the 2024 edition as well. In 36 hours, you, along with 3 other participants, must develop and present a project. The best projects will be awarded.

Col·legi de Biòlegs de Catalunya — Catalan Biology Olympiads

OLYMPIADS | FEBRUARY 2023

I placed 3rd place in the local phase, and Q1 of all participants.

Societat Catalana de Física — Catalan Physics Olympiads

OLYMPIADS | MARCH 2023

I placed in the top 30 of participants in the 2023 Catalan Physics Olympiads.

HackClub — Winter of Hardware grant

GRANT | DECEMBER 2022

This grant was given to me for the purpose of purchasing hardware and using specifically for a hackathon that the same non-profit is organizing

Student Association Helix & Maastricht University – Student Evaluation Panel member

OCTOBER 2023 – JULY 2024

I am part of the SEP (Student Evaluation Panel) for the first year of Biomedical Sciences (2023–2024) at Maastricht University. We are responsible for identifying the strong and weak suits of the courses, as well as suggesting ways to improve them.

in mid-February. To obtain it, I had to present a grant proposal.

Institut d'Estudis Catalans — *DITMAE probability*

COMPETITION | MARCH 2022

This contest involved answering correctly, and in the least amount of time possible, to a number of probability problems and questions. DITMAE stands for Transborder Saturday for Mathematics in Alt Empordà, and is a yearly competition that has 3 different branches each year, for three different parts of mathematics. I was awarded the prize for first place, meaning my team (a classmate and I) got the most correct answers in the shortest time.

Institut d'Estadística de Catalunya — *Planter d'Estadística IDESCAT*

COMPETITION | MAY 2021

This prize is given to the best statistics report that uses publicly available statistical data to draw conclusions. These reports must be written by a team of people, and the winners get to compete with the same report in the Spanish Statistical Reports competition. I competed together with one of my classmates.