

Mar Roca Cugat

WORK EXPERIENCE (4)

Freelancing, Self-employment

DECEMBER 2021 – PRESENT

This work involves me developing websites, graphic design assets (for example, to develop brand identity) and other software development tasks.

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

NOVEMBER 2021 – SEPTEMBER 2023

This work involves 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 divulgator 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: A2 (not certified)

PUBLISHED PROTOCOLS (2)

Sampling from a nasal source in order to culture bacteria

Peer-reviewed by Professor Olga Sánchez (UAB, UdG).
[dx.doi.org/10.17504/protocols.io.81wgb6pk1pk/v10](https://doi.org/10.17504/protocols.io.81wgb6pk1pk/v10)

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

[dx.doi.org/10.17504/protocols.io.261geny6jg47/v2](https://doi.org/10.17504/protocols.io.261geny6jg47/v2)

SKILLS

EU Digital Skills Test:
Advanced (6/6 on all tests)

Computer programming:
Intermediate

¹ Pen name

EDUCATION, TRAINING, AND DIPLOMAS

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.

Universitat Autònoma de Barcelona— “Microbis i jo”

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.

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

CERTIFICATE

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

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

Departament d'Educació de Catalunya— ESO 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.

VOLUNTEERING EXPERIENCE (5)

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

SEPTEMBER 2021 – JUNE 2022

This experience had me help organize 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.

AWARDS, COMPETITIONS, AND GRANTS

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 in order 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 with a classmate of mine.

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

Escola Annexa - *English teaching assistant*

SEPTEMBER 2021 - JUNE 2022

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