

Michael Cebal

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EXPERIENCE

Updated Aug 2025

Giacomello Lab | SciLifeLab (KTH)
MSc Student // Research Engineer

Stockholm, Sweden
Nov 2024 – Aug 2025

Conducted spatial transcriptomics analysis of musculoskeletal samples from spaceflight-exposed mice (NASA Rodent Research 9). The project aims to optimize cryosectioning techniques and conduct detailed transcriptomic analysis to compare bone and muscle adaptations between spaceflight and ground control groups.

Anna Rising Lab | Biosciences Unit (Karolinska Institutet)
Research intern

Stockholm, Sweden
Mar 2024 - Jun 2024

Conducted purification of spider silk proteins from recombinant bacteria and engineered 3D structures to enhance cell attachment. The aim was to study the biomechanical properties of spider silk and its potential applications in creating 3D matrices for cell culture.

Immunity and Small Molecules Lab | CiMUS (USC) **Santiago de Compostela, Spain**
BSc Student

Nov 2022 - Jul 2023

Research on the action mechanisms of novel low molecular weight compounds in treating Rheumatoid Arthritis. My role involved extensive gene expression assays using qPCR in cells from both healthy donors and patients. The project aimed to explore the efficacy of eprinomectin in reducing pro-inflammatory cytokine secretion in vitro.

Pereira/Acedo´s Lab | ILDH (UCL)
Research Intern

London, United Kingdom
Oct 2020 - Jun 2021

The aim of the project was to validate the effects of novel photosensitive therapeutics. My role involved generating spheroids for molecular characterization (3D models of cholangiocarcinoma) and optimize PCR techniques for Sanger sequencing.

EDUCATION

International Space University (ISU)
Master in Space Studies (MSS)

Strasbourg, France
Aug 2025 - Present

Karolinska Institutet (KI)
MSc in Biomedicine

Stockholm, Sweden
Aug 2023 – Jun 2025

European Space Agency (ESA)
ESA/ELGRA Gravity-Related Research Summer School

Transinne, Belgium
Jun 2024 - Jun 2024

Universidad Santiago de Compostela (USC)
BSc in Biotechnology

Santiago de Compostela, Spain
Sep 2023 - Jan 2024

PROJECTS

Independent Analyst: NASA Open Science Data Repository
Exploring publicly available space data for research insights

Stockholm, Sweden
Jan 2025 – Present

Gravity Adaptation Research with noisy GVS (GARN Project)
ESA Experiments Program Applicant

Transinne, Belgium
Jun 2024 - Present

COURSES AND CONFERENCES

Single-cell and spatial transcriptomics data analysis
KTH Royal Institute of Technology

Stockholm, Sweden
Dec 2024 – Jan 2025

Visualize your Science Course
Karolinska Institute

Stockholm, Sweden
Nov 2024 – Feb 2025

Bonn Brain³ Conference
Bonn University

Bonn, Germany
Aug 2024

Direct marketing and use of social networks
Ministry of Development, Spain

Galicia, Spain
Jan 2020 – May 2020

SKILLS

Programming
Python, R, and MATLAB

Media Production
Photoshop, Procreate, After Effects, PowerPoint, CapCut

Drone Pilot
DJI Mini 3 Pro and DJI Avata 2

LANGUAGES

Galician
Native

Spanish
Native

English
Proficient

Portuguese
Intermediate

VOLUNTEERING

Science Communication
2023-Present

Red cross
2022 - Present

G-Night
2022-2023

HONORS & AWARDS

Full MSS Scholarship (awarded by “Fundación Barrié”)

Full MSc Scholarship (awarded by the “LaCaixa” Foundation)

Academic excellence awards for best record in the BSc (Awarded by the Government of Galicia from 2021 to 2023)

11 x BSc Honors recognition

Distinction for the university entrance exams (awarded by the Government of Galicia)

A-Levels Cum Laude

OTHER MERITS

ESA Careers Day attendant

Galician Shot Put and Discus Throw Champion (2020-2022)

Youth Galician Cooking Contest 3rd place (2021)