

A N A Z E N T E N O

BIOCHEMIST,
POSTGRADUATE
STUDENT.



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Bolivian

ACADEMIC QUALIFICATIONS

Undergraduate: Bachelor in Biochemistry. Universidad Mayor de San Andrés, La Paz- Bolivia. Summa cum laude. GPA: 8.5.

- Representative of the student body. Best university student awardee (2018)
- Undergrad teaching assistant (2017) Math course: teaching practicals, assisting with the organization and evaluation.
- Undergrad research assistant (2018) PharmacBiochemistry research institute (UMSA) (2018). Project: "Bio-directed fractionation of *Scoparia dulcis*" in search of bioactive compounds against parasitic tropical diseases. Laboratory experience in extraction, purification, and identification of plant compounds (chromatography, spectrometry)
- Undergrad teaching assistant (2019) Parasitology course: Preparation and identification of parasite-infested samples with optical microscopy. Assisted with the organization and evaluation of the course

Postgraduate: Master degree candidate on the Erasmus Mundus Joint Master degree in Environmental Contamination and Toxicology (ECT+). Scholarship holder (2020-2022) (GPA 8.42)

- Research intern at Centre for Experimental Marine Biology and Biotechnology (NanoCarrierERA project) (present) - UPV/EHU. Toxicity profiling of nanomaterials on microalgae, performing standardized procedures following OECD normative.
- Educational history - Erasmus Joint Master degree:
 - Université de Liège
 - Universidad del País Vasco
 - University of Cambridge
- Master thesis project at the Department of Plant Sciences - University of Cambridge: Project funded by the Royal Society-GCRF, which is focused on the valorization of fruit and vegetable waste using a circular approach. The project involves anaerobic digestion, cultivation of microalgae on photobioreactors, and insect feeding trials on the different outputs of this process. Use of techniques like GC- FID, GC-MS, and FTIR.

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LANGUAGES

- English (TOEFL iBT 94)
- Spanish (native speaker)

OTHER COURSES

- EIT Food course: Algae biotechnology 2022 – Techniques and opportunities for the sustainable bioeconomy. (May 2022)
- Assistant of the workshop “Introduction to primer design” - Instituto de Genética Barbara McClintock (2021)
- Course: INTRODUCTION TO R LANGUAGE, 2021 in CIIMAR, Porto (Portugal).
- 10th Workshop in Lipidomics – Online event “Food Lipidomics” Mass Spectrometry Centre of the University of Aveiro (Portugal)

COMPETENCES

- Technical laboratory experience
- Previously worked on aseptic environments (clinical microbiology) and clinical chemistry
- Performed standardized procedures following OECD, use of quality control standards, and good laboratory practices
- Knowledge of molecular biology techniques (primer design, transcriptomics, and molecular monitoring)
- Experience in clinical practices (Phlebotomy, cytological and microbiological sampling, and hematological analysis).
- Skills for pharmaceutical administration in animals and dissection (mouses, mussels, and fish)
- Experience performing ecotoxicological bioassays on microalgae and copepods
- Able to create a good work environment and active team members.
- Wide knowledge of Microsoft office tools and SPSS
- Basic knowledge of R programming.
- Experience with scaling up processes with *Chlorella vulgaris* at the Algal Innovation Center (University of Cambridge)
- Media preparation and culture maintenance for marine and freshwater microalgae.
- Trained in the use of confocal microscopes (SP5 and SP8)
- Experience with analytical techniques like Gas chromatography (FID and MS detector), HPLC, and FTIR

RESEARCH EXPERIENCE

- Presenting author of the project: Toxicity of graphene family nanomaterials alone and with benzo[a]pyrene on the marine microalga *Tisochrysis lutea* (oral presentation) at the 21th International symposium on Pollutant Responses in Marine Organisms (Gothenburg-Sweden, 22-25 May 2022) Manuscript in progress
- Presenting author of the project: The impact of novel contaminants in an overlooked model species: Toxicity of reduced graphene oxide with silver nanoparticles (rGO-Ag NPs) on the marine microalga *Tisochrysis lutea* (poster presentation) at the 21th International Symposium on Pollutant Responses in Marine Organisms (Gothenburg-Sweden, 22-25 May 2022) Manuscript in progress

PERSONAL GOALS

- Learning more about synthetic biology and microalgal biotechnology
- Getting experience with bioinformatic tools
- Expand my professional network across Europe and Latin America
- Focussing my research in applicable, efficient and sustainable processes