Samuel Araújo Silva

SOFT SKILLS

- Adaptability
- Interpersonal Relationship
- Collaboration
- Organization
- Communication

samuel.sas.silva@gmail.com

PERSONAL PROFILE

Graduated in Biological and Chemical Engineering and specialized in the Environmental Technology Field, with excellent analytical, rational and teamwork skills acquired during the years of study and in professional / personal experiences. Looking for a challenge in a context that takes into account environmental concerns, promoting sustainability and innovation. Always ready to learn more and to improve personal and professional development.

ACADÉMIC BACKGROUND

2015 – 2021
Integrated Master in Chemical and Biological Engineering – Minho's University (Portugal)
September 2019 – January 2020
Mobility Program at TU Delft – Netherlands
July 2020 – December 2020
Master Internship – INL (International Iberian Nanotechnology Laboratory) - Water Quality Group - SEALAB Project.

TECHNICAL SKILLS/ EXPERIENCE

Molecularly imprinted polymers (MIP's) - Synthesis and characterization of MIP's
Analytical electrochemistry – Knowledge in electrochemical technics; Cyclic Voltammetry (CV); Differential Pulse Voltammetry (DPV); Chronoamperometry
Analysis of real samples – Analysis of sea water samples and management of the collected data using computational tools
Analytical instrumentation - SEM; AFM; FTIR; HPLC; Metrohm - AUTOLAB

COMPUTER SKILLS

MATLAB – Develop of advance scripts for metabolic pathway analysis; Application of numerical methods for problem solving; Automation of data management and analysis;
Python – Develop of scripts for data analysis;
Excel – Data analysis and management; Application of numerical methods for optimization problems solving; Statistical analysis; Develop of advanced spreadsheets.
NOVA – Develop of procedures for electrochemical data acquisition
Word and PowerPoint

PARTICIPATIONS

NEEB (Núcleo de Estudos de Engenharia Biológica) at sports department in 2019
Project SEALAB – Develop of an electrochemical sensor and integration of the sensor in a maritime device

INTELLECTUAL PROPERTY AND COPYRIGHTS

Master thesis – Samuel Silva, DEVELOPMENT OF AN ELECTROCHEMICAL SENSOR FOR DETECTION OF ORGANIC WATER CONTAMINANTS (ATRAZINE) BASED ON MOLECULAR IMPRINTED POLYMERS, MSc in Biological Engineering – Environmental Technology, Universidade do Minho, 2021.
Scientific communication - Samuel Silva, Begoña Espiña, João M. peixoto, Raquel Queirós, DEVELOPMENT OF AN ELECTROCHEMICAL SENSOR FOR DETECTION OF ATRAZINE BASED ON MOLECULAR IMPRINTED POLYMERS, EuronanoForum 2021, 5-6 May 2021, Virtual Conference

LANGUAGE

Portuguese – Native speaker
English - Listening and writing, C1 - Speaking, B2