Leonardo Soto, MSc.

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1 Education

MSc in Chemistry, Uppsala University, Uppsala, Sweden	2023
MSc in Analytical Chemistry, University of Tartu, Tartu, Estonia	2023
BEng in Chemical Engineering, National Polytechnic School (NPS), Quito, Ecuador	2017

2 Professional Experience

Collaborator at the Environmental Engineering Teaching Laboratory

2020-2021

Civil and Environmental Engineering, NPS, Quito, Ecuador supervision and advising of undergraduate students managed equipment, reagents, purchases, maintenance, and information systems

Laboratory Technician

2017-2021

Center for Environmental Research and Control, NPS, Quito, Ecuador managed and applied physicochemical methods according to ISO 17025 wrote SOPs, guides, technical and management procedures developed and deployed a web app prototype for lab information management organized the production of microbiology laboratory video tutorials

3 Research Experience

Graduate Student, lab Dr. Anneli Kruve

2023

Materials and Environmental Chemistry, Stockholm University, Stockholm, Sweden predicting bioactivity of detected chemicals with machine learning building molecular networks for non-targeted LC-ESI-HRMS

Graduate Student with Dr. Magnus Palmblad

2023

Center for Proteomics and Metabolomics, Leiden University, Leiden, Netherlands building semantic graphs from LC-MS experimental methodologies

Lab Technician, at NPS

2019

Center for Environmental Research and Control, NPS, Quito, Ecuador managed the TOC method with an accredited research scope under ISO 17025 statistical testing for flexible scopes

Undergraduate Student with Dr. Florinella Muñoz

2015

Nuclear Sciences, National Polytechnic School, Quito, Ecuador advanced oxidation processes with ozone, activated carbon and hydrogen peroxide

4 Publications

- M. Palmblad, E. Asein, N. Bergman, A. Ivanova, L. Ramasauskas, H. Reyes, S. Ruchti, L. Soto, and J. Bergquist, "Semantic Annotation of Experimental Methods in Analytical Chemistry", DOI: 10.1021/acs.analchem.2c03565, Analytical Chemistry, 2022
- F. Muñoz, V. Maldonado, M. Barba, L. Soto, and O. Balladares, "Study of the combination of ozone with hydrogen peroxide and activated carbon in the treatment of BRL blue dye and a textile effluent", VII EPOA II CIPOA Conference, 2015

Curriculum Vitae Leonardo Soto

5 Academic Service

Teacher Feb 2019 – Jun 2019

Polytechnic Training Center CCP, Quito, Ecuador

presented courses for the National Exam for Admission to University

Math Teacher Dec 2017 – May 2018

Department of Basic Education, NPS, Quito, Ecuador

prepared and presented a leveling course for high school students within a social project

Presenter Jun – Aug 2017

The Science Tunnel, Sociedad Max Planck

science communication to non-expert audiences at the Ecuadorian National House of Culture

Chemistry Teacher

Aug 2015, Aug 2016

Federation of Students of the National Polytechnic School, Quito, Ecuador

prepared and presented 2 courses in undergraduate level on Chemistry, wrote and graded exams

6 Skills

Laboratory: HPLC-ESI-MS, IC, TOC, ASV, FTIR, electrochemistry, sample preparation

Technical: Method validation, Uncertainty estimation, Metrology, ISO 17025

Languages: Spanish - *native*. English - *advanced*. French - *basic* **Software**: Cytoscape - *intermediate*. Xcalibur, MZMine - *basic*

Programming: Python, R, bash, LATEX - intermediate. SQL, PHP, HTML5 - basic

7 Continuing Education

Bioinformatics: Introduction and Methods	2024
Toxicology 21: Scientific Applications	2023
Applied Machine Learning in Python	2022
LC-MS Method Validation	2021
Measurement Uncertainty in Chemical Analysis	2021
ISO/IEC 17025 Laboratory Management Implementation	2019
Metrologist Training Program	2019
Project Management PMBOK® Guide	2019
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