

CV Pablo J. Lebed

Contact Information

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Professional Summary

Expert Analytical Chemist & Spectroscopy Specialist (PhD) with over 10 years of experience in advanced spectroscopy and chromatography techniques, including ICP-MS/MS, ICP-OES, and GC-FID. Skilled in leading technical initiatives, developing and validating new analytical methods, and ensuring stringent quality standards across research and industrial laboratories. Proven expertise in projects related to battery materials, nanomedicine, environmental analysis, and radiochemistry.

Work Experience

Senior Analytical Chemist Northvolt AB, Västerås, Sweden - (Dec 2021 - Jun 2025)

- Spearheaded the development and validation of new analytical methods.
- Led the Development Area for ICP-OES, ICP-MS, XRF, and TGA within the CAM and Revolt QC & Characterization Teams.
- Developed and implemented Revolt's QC Lab Quality Management System, enhancing lab efficiency and reliability.
- Implemented key routines for Incoming Quality Control, Deviation Management, and Continuous Improvement to optimize lab operations.

Environmental Chemist Solarus Renewables AB, Sweden - (Jul 2025 - Sep 2025) - Internship

- Analyzed industrial wastewater treatment methods, linking them to costs such as CAPEX, OPEX, and LCA.
- Compiled technical information into clear reports for decision-makers in the paper, food, and medicine industries.

Senior Engineer Institute for Energy Technology, Lillestrøm, Norway - (Dec 2020 - Oct 2021)

- Conducted trace element analysis for industrial R&D samples using ICP-MS and ICP-OES.
- Developed an extraction chromatography method for the analysis of Strontium (Sr) isotopic ratios.

Research Scientist SINTEF, Trondheim, Norway - (Apr 2019 - Mar 2020)

- Developed methods for detecting nanomedicine carriers using a Postnova FFF system and Agilent ICP-MS-MS.
- Set up sample preparation and analysis methods for fatty acids in fish oil using the GC-FID Agilent 8890 system.
- Developed the Teledyne LSX-213 G2+ Laser Ablation system and successfully acquired the first customers.

Senior Engineer Geological Survey of Norway, Trondheim, Norway - (Sep 2018 - Oct 2018)

- Conducted K-Ar Geochronology of Illites and developed a Potassium (K) measurement strategy.

Researcher & Post-Doctoral Researcher Norwegian University of Life Science, Ås, Norway - (Apr 2015 - Aug 2018)

- Developed and applied analytical strategies for selenium and chromium speciation analysis.
- Contributed to the EU NANOREM project, developing a strategy to fingerprint nanomaterials and assess the mobility of iron nanoparticles.
- Analyzed Sr-90 in fish samples from Chernobyl and developed the sample concentration and clean-up procedure.
- Taught and demonstrated HPLC-ICP-MS for a university course.

Researcher & Post-Doctoral Researcher Laval University, Québec, Canada - (Sep 2010 - Mar 2015)

- Developed sample preparation strategies for radiochemistry and worked on the extraction of actinides and rare-earth elements.
- Published two high-impact scientific articles and provided support and guidance to students.
- Synthesized, characterized, and demonstrated the analytical performance of a new hybrid organic-inorganic adsorbent.
- Successfully assigned the geo-origin of old Champagne samples using semi-quantitative ICP-MS analysis and PCA.

Skills

Lab Technology

- **Spectroscopy/Spectrometry:** ICP-MS-MS, ICP-MS, ICP-OES, sp-ICP-MS, LC-ICP-MS, FFF-ICP-MS
- **Chromatography:** GC-FID, HPLC-UV/VIS
- **Material Science:** TEM, solid-state FTIR, solid-state NMR, nitrogen physisorption analysis, thermogravimetric analysis (TG/DTA), XRD and XPS interpretation, DLS/PSA
- **Radiation Counters:** Liquid Scintillation, Alpha Spectrometry

IT Tools

- HTML | CSS | JavaScript | Linux | Git | GitHub | VS Code | MS Office 365 | Notion | Jira | Confluence

Certifications, Trainings, & Memberships

- Introduction to Good Manufacturing Practice (GMP): Research Quality Association (RQA), 2018.
- Introduction to Good Laboratory Practice (GLP): Research Quality Association (RQA), 2019.
- SPC and Capability: Northvolt AB, 2023.
- American Society for Quality - ASQ: (2023-2024)
- American Society for Testing and Materials - ASTM International: (2023-present)

Languages

- Spanish - Mother tongue | English - Professional proficiency | Norsk - Level A2

Education

- PhD Analytical Chemistry - 2010 Universidad Nacional de La Plata, La Plata, Argentina
- BSc Biochemistry - 2003 Universidad Nacional del Sur, Bahía Blanca, Argentina