

Edward L. Vinis

Experimental Geochemist & Environmental Geologist | edvinis1@gmail.com
Brussels, Belgium | +32 471 51 67 91 | edvinis.com | [linkedin.com/in/ed-vinis](https://www.linkedin.com/in/ed-vinis)

Professional Summary Environmentally focused scientist with a Master's in Environmental Studies and dual Bachelor's degrees in Geology and Chemistry. Experienced in high-temperature geochemical research, environmental sample preparation, and quality assurance within laboratory settings. Proficient in various analytical instrumentations, data management, IT, and graphic software, as well as experience in business development. Currently seeking a career in the environmental sector in Brussels.

Education

- **M.S. in Environmental Studies** | Tohoku University, Japan | Sep. 2024
 - Recipient of the Japanese Government (MEXT) Scholarship.
 - **B.S. in Geology** | University of Oregon, USA | Sep. 2021
 - Earth Science GPA: 3.94; Commencement Speaker.
 - **B.S. in Chemistry** | University of Puget Sound, USA | May 2014
-

Professional Experience

Graduate Student Researcher | Tohoku University, Japan | Sep. 2022 – Sep. 2024

- Received Japanese government (MEXT) funding to perform geochemical experiments on silica precipitation and granite.
- Conducted high-temperature and pressure (>380°C, 25 MPa) flow-through experiments to understand silica behavior in crustal environments.
- Performed quantitative analyses of findings using chemical instrumentation and software.
- Trained and aided fellow researchers in flow-through experiments and techniques.
- Published findings in *Nature Communications* and *Scientific Reports*.
- Presented research at six international conferences.

Organic Prep Analyst I | TestAmerica Inc. (now Eurofins), USA | Mar. 2016 – June 2017

- Prepared environmental samples for organic compound analysis using wet laboratory techniques, including leachate extraction and concentrating.
- Concentrated 80-100 water and soil extracts daily to desired volumes prior to analysis.
- Performed TCLP (Toxicity Characteristic Leaching Procedure) to simulate environmental leaching from toxic samples.
- Organized and finalized large datasets for input into Laboratory Information Management Systems (LIMS).

Quality Assurance Lab. Technician | Grain Millers Inc., USA | Mar. 2015 – June 2015

- Inspected processed grain products to meet quality standards following Standard Operating Procedures (SOPs).
- Analyzed grains and flours for moisture, protein, dietary fiber, and visual properties.
- Utilized LIMS software for data collection and organization.

Chemistry Intern | Silvan Ridge Winery, USA | Sep. 2014 – Nov. 2014

- Conducted daily physical and analytical analyses of fermenting wines, including pH, sugar, and sulfur content.
- Organized datasheets from daily analytical findings during the harvest season.

Undergraduate Researcher | University of Puget Sound, USA | May 2013 – Dec. 2013

- Received a grant to perform research investigating efficient liquid crystal compounds through organic synthesis.
 - Utilized laboratory instrumentation including NMR, IR, mass spectrometry, and gas/liquid chromatography.
-

Additional Experience

Project Administrator | Kimball Construction, USA | Jan. 2019 – Aug. 2022

- Managed subcontractors, assisted in business development, and utilized CRM software to grow a small construction business.

English Language Teacher | The Language Academy, Belgium | Feb. 2026

- Taught an intensive English as second language course for students aged 12-18.
-

Skills and Assets

- **Laboratory Instrumentation:** ICP-AES/OES, SEM-EDS, SEM-CL, X-Ray CT, μ -XRF, EPMA, Raman Spectroscopy, H-NMR, IR, DSC.
- **Techniques:** Flow-through experiments, organic synthesis, leachate extraction (TCLP), grain analysis, high-pressure gas/fluid equipment (Swagelok), extensive multitasking.
- **Software:** Python (Matplotlib, Numpy), ArcGIS/QGIS, LIMS, CRM software, Adobe Illustrator, Microsoft Office, Dragonfly CT modeling software, WordPress.
- **Languages:** English (Native), Spanish (Working Proficiency).
- **Visa:** Belgian working visa.