

MARIA MICAELA NINNI

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Professional Profile

A Geologist with an M.S. in Geochemistry and Ore Deposits, I provide a unique blend of specialized knowledge and data-centric rigor. I bridge foundational technical expertise with strategic insight, utilizing quantitative assessment to inform and guide critical decision-making.

After working as a researcher and lecturer at world-renowned institutions such as the *University of Pennsylvania* and the *Carnegie Institute for Science*, I am pivoting my career towards the private sector, where my experience in highly dynamic and collaborative environments can be a distinct asset. This experience solidified my analytical and proactive mindset, forged in settings where constant innovation with concrete actionable results were paramount.

Although my work primarily focused on the economic assessment of mineral resources, the core competencies I developed are fully transferable to new areas of work. My specialization lies in a disciplined approach to problem-solving—applying structured thinking and data analysis to navigate complexity, steering projects to completion amidst ambiguity, and articulating progress and outcomes to drive aligned decision-making across diverse teams.

It is precisely this fusion of technical depth and a strategic, global outlook—honed in leading international research centers—that allows me to offer a unique and solution-oriented perspective.

Value Proposition

1. Adaptability in Global, High-Performance Environments

I thrive in fast-paced, globalized, multidisciplinary settings. Backed by years at top-tier institutions like the *University of Pennsylvania* and the *Carnegie Institute for Science*, my experience navigating the high-pressure, results-driven cultures of leading U.S. research centers has equipped me with the resilience and collaborative agility to integrate seamlessly and fast into teams.

2. Theory driven, Results-Oriented Problem Solving

My strength lies in developing a holistic theoretical framework, to understand the data and turn results into actionable strategy. I specialize in deconstructing challenges through data-driven analysis, designing practical solutions, and executing projects that deliver concrete outcomes. This iterative process —constantly assessing results against objectives to refine the course of action— ensures that projects not only advance but evolve intelligently to maximize impact and drive continuous forward momentum.

3. Strategic Communication & Continuous Learning

A fully bilingual communicator, I take a huge commitment in conveying complex ideas to diverse audiences. In parallel, learning programming and design tools has fueled my curiosity and became a continuous-learning journey. This approach has allowed me to gain confidence in a wide range of tools and stay current with emerging technologies and trends.

Professional Aptitudes

1. Data Analysis & Programming

- **Programming Proficiency:** Hands-on, self-taught expertise in Python, SQL, and Java. Developed custom scripts for data analysis and automation during graduate research and have continued to build and publish small-scale applications (available on GitHub).
- **Geospatial Analysis:** Proficient in ArcGIS for georeferencing, spatial data management, and advanced analytical modeling.
- **Data Management:** Skilled in end-to-end data workflows, from acquisition and processing to visualization and interpretation, ensuring data integrity and actionable insights.

2. Technical Expertise & Quality Assurance

- **Advanced Analytical Techniques:** Extensive hands-on experience with a suite of laboratory instrumentation, including XRD, SEM, EMPA, XRF, ICP-OES, and Raman Spectroscopy.
- **Procedural Development & Compliance:** Ability to develop, standardize, and execute complex technical procedures. Maintained documentation and precise records in full compliance with institutional standards..

3. Soft Skills

- **Theory-to-Practice-to-Results Translation:** Ability to connect abstract theoretical frameworks with practical experimentation and data. I leverage empirical results to validate hypotheses, refine models, and formulate new, targeted research questions and strategic objectives, ensuring a cycle of continuous, evidence-based improvement.
- **Audience-Centric Communication:** Bridges the gap between deep technical analysis and strategic decision-making. I architect intuitive narratives and visual frameworks that make the complex simple, ensuring findings land with impact for specialized teams and executive stakeholders alike.
- **Structured Collaboration & Leadership:** Highly organized with a proven track record of setting and achieving personal and team goals in academic settings. Effective both as a peer and a leader, capable of coordinating multidisciplinary teams, managing timelines, and fostering a collaborative environment to drive projects to successful completion.

Work & Research Experience

2020 - 2024	University of Pennsylvania, PA, USA <i>Student Researcher - B. Franklin Fellowship Recipient / Teaching Assistant</i> Project: Geology and Economic feasibility of a Mn-deposit in Toc Tat, Vietnam. Identified ore and gangue minerals, determined ore grade, and assessed mine performance using geochemical data. Establish the presence of harmful contaminants. Learned and performed a wide range of analytical techniques to assess the project's objectives, including ICP-MS, ICP-OES, XRD, Raman, among others. Published a Master's thesis, scientific papers, and delivered presentations at conferences, alongside other scientific outreach activities.
2022 - 2023	Carnegie Institute for Sciences, D.C., USA <i>Student Researcher - Scholarship</i> Project: Analyzing the provenance of diamonds from the Juina region in Brazil. Identified rare ferropericlase inclusions using cutting-edge XRD techniques at Argonne National Laboratory's Advanced Photon Source. Worked with international teams at Carnegie Institute (DC) to analyze diamond inclusions.
2019 - 2020	Universidad de Buenos Aires, CABA <i>Student Researcher -</i> Project: Geology, Structure and Geochemistry in the Mn-Au vein at Los Viscos in the YMAD Mine, Catamarca.
2010 - 2025	Freelance Language Teacher (Argentina, Mexico, USA)
2015 - 2017	Snowshoe Ski Resort, WV, United States Sales
2011 - 2013	Kel Ediciones, Martinez, Buenos Aires
2010 - 2011	SelecciónWeb, CABA

Languages - Spanish & English, native.

References

- Lic. Oscar G. Vazquez - 1164434918 - Independent Mining Sector Consultant / Senior Geologist
- Dr. David Goldsby - dgoldsby@sas.upenn.edu - Earth & Environmental Science Department Chair