

Contact

mpodeley@gmail.com

www.linkedin.com/in/mpodeley
(LinkedIn)

Top Skills

mechanistic interpretability

Agents

Energías renovables

Languages

English (Full Professional)

Spanish (Native or Bilingual)

French (Professional Working)

Certifications

Machine Learning

Leadership Program for Tecpetrol

Sustainable Aviation Fuels

Startup Engineering

Neural Networks for Machine Learning

Honors-Awards

International Finalist

Robocup Winners

Publications

Aplicación de Técnicas de Simulación de Reservorios a la Simulación de Salares

Implementation and Performance of a Heavy Oil Pilot in Atacapi Field, Ecuador (co-author)

Production Analysis and Forecasting of Vaca Muerta Shale Wells in Argentina: Case History-Based (contributor)

Transferencia Tecnológica y de RRHH del Upstream Petrolero al Upstream del Lito

Metodología Integral de Modelado Numérico para Yacimientos Maduros

Matías Podeley

Petroleum Engineer | Business Development | Turning ideas into projects with AI agents

Greater Buenos Aires

Summary

Energy and industrial project developer with a petroleum engineering background. I help commercial, reservoir and mining teams turn ideas into structured opportunities, internal tools and executable projects, combining technical analysis, business development and AI-native workflows.

Experience

Independent AI Project Developer / Researcher

Energy, Mining & Industrial Intelligence | Mechanistic Interpretability
March 2026 - Present (6 months)

I help teams turn ideas into projects using AI-native workflows.

As an independent project developer, I build agents, dashboards and lightweight tools for research, market intelligence, opportunity framing and decision support across energy, mining and industrial development.

Public example: Satellite Earth Observation for Energy & Mining Decisions

<https://mpodeley.github.io/satelites-eo/casos/>

I also like diving into the internals of LLMs to understand how they do their magic.

<https://mpodeley.github.io/interpretabilidad-mecanicista/mi-investigacion/>

Pluspetrol

6 years 10 months

Energy Transition Engineer - Corporate Development

July 2022 - July 2026 (4 years 1 month)

Greater Buenos Aires

Reservoir Engineer - New Technologies - Global Reserves Progression

October 2019 - July 2022 (2 years 10 months)

Buenos Aires, Argentina

ITBA

Graduate Student Instructor - Petroleum Engineering Department
March 2016 - March 2021 (5 years 1 month)

Buenos Aires

- Graduate Student Instructor - Petroleum Project Appraisal (Evaluación de Proyectos Petroleros)
- Researcher (2017-2019) - Reservoir Simulation Research Center (Centro de Simulación de Reservorios/CeSimRes)

Publications:

- Aplicación de Técnicas de Simulación de Reservorios a la Simulación de Salares (VII Seminario de Litio, Salta)
- Transferencia Tecnológica y de RRHH del Upstream Petrolero al Upstream del Litio (VI Seminario de Litio, Catamarca)

Tecpetrol

Reservoir Engineer

September 2014 - October 2019 (5 years 2 months)

Buenos Aires

Blocks 88 and 56, Peru (Consortio Camisea, Pluspetrol led Joint Venture)

- Tecpetrol's Technical representative for the Consortium.
- Migrated and managed full field simulation model of the giant gas condensate field.
- Led Integrated Asset Modelling Study (gap+prosper+mbal).
- Maintained internal case (forecasts, reserves).

Well Expert Project (Tecpetrol+InfOil)

- Co-creator of a web app for managing, visualizing and analyzing well data.
- Geosciences focal point for the development and company-wide deployment of the app.
- Managed team helping leaders deploy the app.

Pendare Field, CPO13 (exploratory field with large resource base), Colombia

- Built simulation models for the assesment of alternative development plans for a greenfield project.

Libertador-Atacapi (mature oil field under water flooding), Ecuador
(Pardaliservices, Tecpetrol led Joint Venture)

- Built reservoir simulation models to optimize field development plans, forecast reservoir performance and estimate reserves.

- Worked closely with G&G team to ensure good consistency in static reservoir model building.

Shushufindi-Aguarico (giant oil field), Ecuador (Consortio Shushufindi, Schlumberger Production Management led Joint Venture)

- Maintained internal case (forecasts, reserves). Attended Technical Committee Meetings.

Pluspetrol

Reservoir Engineer

May 2008 - September 2014 (6 years 5 months)

Argentina

Reserves Progression and Reservoir Studies, Buenos Aires

- Conducted in-house reservoir studies and supervised studies carried out by external consultants for all oil producing assets in Neuquen Basin.

El Porvenir Area, Neuquen

- In charge of all reservoir engineering aspects for the area including reservoir studies, reserve progression, development plan, production forecasts, waterflooding surveillance, design of workover interventions and evaluation of new projects.
- Supervision of field activity on several fields when on duty (hydraulic fracturing, well logging, well testing)

Centenario Field, Neuquen

- Waterflooding surveillance, proposal and design of well interventions (40+)
- Intensive field training on rigs, tools, stimulation, facilities and production operations (oil and gas; conventional and unconventional)

Corporate Engineering , Buenos Aires

- Supported Business development on asset valuation (reserves, development plan, production curve, capex, opex, data room overview)
- Supported Exploration Team on tentative development plans for exploratory resources

Featured Projects

- Hostile bidding on Petroandina Resources (resulting in the acquisition of the company's share on assets in Argentina for +300 MMus\$).
- Block 1AB Integrated Study (Marañon Basin, Peru): joined a task force of geophysicists, geologists and reservoir engineers. Assisted in reserves and resources inventory, building economic analysis and reports.

- Project on geothermal energy use from co-produced water (ORC).

Irevna

Research Analyst

December 2007 - May 2008 (6 months)

- Off Shore Analyst for a major investment bank equity research team
- Created and managed models and research reports on the communications infrastructure industry

Baker Oil Tools

Intern

May 2007 - December 2007 (8 months)

Education

Instituto Tecnológico de Buenos Aires

Petroleum Engineer · (2008 - 2009)

Stanford University School of Engineering

Energy Innovation and Emerging Technologies Program - Online · (June 2022 - October 2022)

Institut national des Sciences appliquées de Lyon

Exchange Student - Computer Science department (M2R), Engineering · (July 2006 - January 2007)

Instituto Tecnológico de Buenos Aires

Industrial Engineer · (2002 - 2006)

Colegio Nacional de Buenos Aires

Bachiller Nacional · (1997 - 2001)