

Summary

Analytical and detail-oriented Geoscientist with ~10 years of progressive experience in both industry and academia/research. Thrives in environments offering stimulating challenges and requiring both independent and cooperative decision-making.

With a strong track record in delivering robust insights for subsurface and marine science projects, I am committed to leading and supporting multidisciplinary teams to achieve high standards of scientific excellence. My ambition is to drive impactful outcomes in geoscience and geophysics for energy transition initiatives.

Education



Technical and operational skills

Project management & scientific collaborations

Led cross-disciplinary projects at the interface of research, industry, and policy, including organization of international workshops and conferences to foster collaboration. Expertise in securing competitive funding, coordinating multi-stakeholder teams, and translating scientific advancements into strategic partnerships. Skilled in project design, stakeholder engagement, and delivering high-impact outcomes in energy transition and innovation ecosystems.

Seismic interpretation & structural framework building

2D/3D interpretation, mapping, attribute analysis, seismic-to-well tie, synthetic seismograms, velocity modelling, depth conversion, QC of data, scenario building and uncertainty assessment.

Reservoir characterisation & well integration

Log interpretation (GR, density, sonic, resistivity,...), core/cuttings description, petrography, XRD, porosity/permeability, marker correlation, reservoir simulation, trap and seal integrity (incl. salt-related), early volumetrics, geosteering support and operational updates.

Basin analysis, stratigraphy & geological modelling

Tectono-stratigraphic reconstruction, sequence and seismic stratigraphy, depositional system interpretation, forward/conceptual modelling, evaluation of sedimentary basin architecture, migration pathways, and geostorage screening.

Projects and interests

Co-leader - COST Action SaltAges

Salt-related geohazards

- Landscape evolution, infrastructure risk, and broader impacts

Geological storage (CO₂/H₂)

Potential analysis and leakage risk assessment

- Characterise geometry and kinematic history of salt structures
- Predictive understanding of fault behaviour in targeted sites

Geohazards

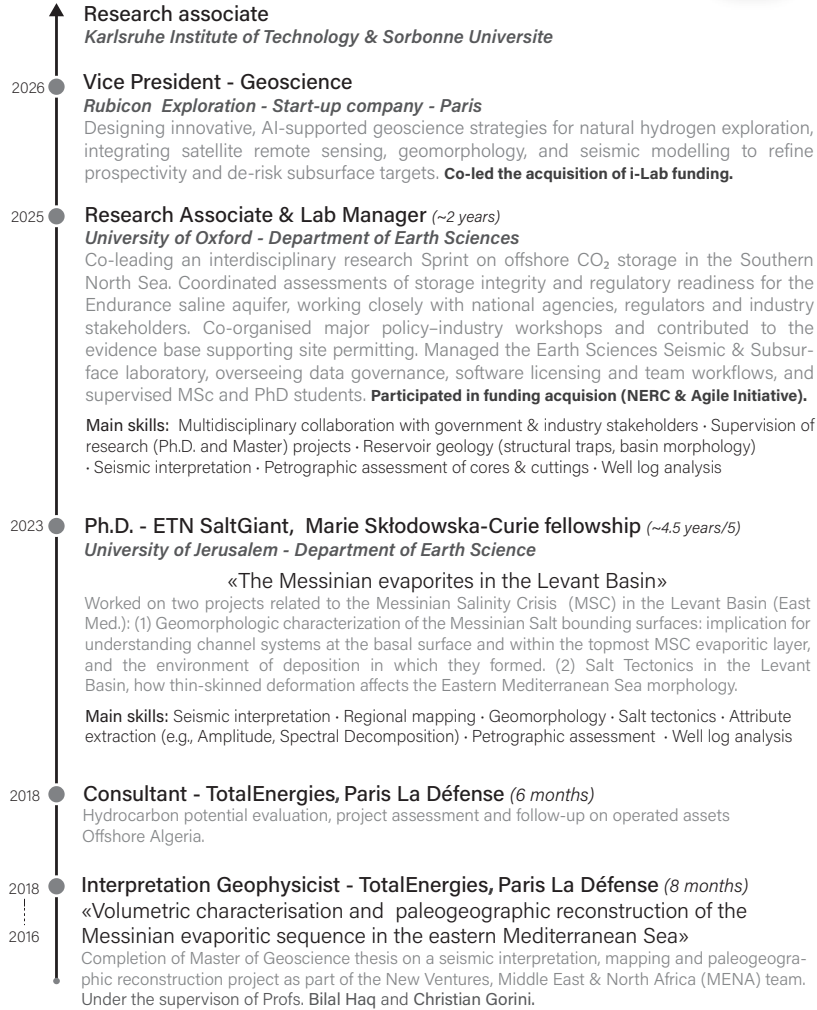
Coastal/shelf risks and collapse structures

- Instability (e.g., landslides & MTDs) along the Mediterranean margins
- Evaporite related sinkholes

Contact

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Professional experience



Software

Seismic & Well Interpretation

Petrel, Kingdom, Sismage, Strater, Gocad/Skua, Leapfrog Geo

GIS & Geospatial Analysis

ArcGIS, QGIS

Data Processing & Analysis (basics)

R (statistics), Python (for machine learning, geomorphology, imaging), Matlab

Illustration & communication

Adobe suite (Illustrator, InDesign, Photoshop, After Effects)

Office & Data Management

Suite Microsoft Office (Word, Excel, PowerPoint)

Selected publication list

[\(clickable links\)](#)

- Moneron, J. and Gvirtzman, Z., 2022. Late Messinian submarine channel systems in the Levant Basin: Challenging the desiccation scenario. **Geology**.

- Moneron, J. and Jackson A-L., C., 2025. Basin-scale development of giant collapse structures induced by gypsum diagenesis. **Geology**.

- Moneron, J., Gvirtzman, Z., Karcz, Z., Sagy, Y., 2024. Discovery of the Messinian Eratosthenes Canyon in the deep Levant Basin. **Global and Planetary Change**.

- Moneron, J., et al., 2024. Exploring the relationship between sedimentary transport systems and basin dynamics: A case study from the Levant Basin (Eastern Mediterranean Sea) before, during, and after the Messinian. **GSA Bulletin**.

- Aloisi, G., Moneron, J., et al., 2024. Chlorine isotopes constrain a major drawdown of the Mediterranean Sea during the Messinian Salinity Crisis. **Nature Comm.**

Languages

