**Anna Sacarabany Springett**  
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**Senior Geoscientist, Expert in Probabilistic Resource Assessment & Volumetric Risk, Subsurface Integration, Reservoir Modelling, Decision Quality Practitioner, Drill Well Planning & Execution**

**Summary**

Senior Geoscientist with 16 years at ExxonMobil, delivering high-impact global exploration & development projects across the globe. Recognized company expert in resource uncertainty, probabilistic risk assessment and scenario-based analysis. Led the technical evaluation underpinning multi-billion-dollar investment decisions in Guyana’s Longtail and South East Gas Area, shaping field development strategies.

Strong recent focus on decision quality and framing, supporting senior leaders through scenario-based analysis and structured evaluation. A thorough and numerate integrator, skilled in well planning, execution, and cross-discipline collaboration. Led the discovery, appraisal, and reservoir model construction for the Glaucus field offshore Cyprus.

Trusted advisor and influencer without authority, known for championing quality decisions grounded in sound volumetric analysis and rigorous risk characterization. Passionate mentor and teacher, delivering internal training and enabling knowledge transfer across multi-disciplinary teams. Steward of best practices for the Assessment skill area. Dual French and UK citizen, fluent in both French and English.

**Education**

MSc, Engineering & Petroleum Geosciences, École Nationale Supérieure de Géologie, Nancy (2008)

ExxonMobil Graduate Program, London Business School (2009 – 2011)

**Skills**

Resource Uncertainty & Risk Assessment, Subsurface Scenario Modelling, Data Integration, Investment Decision Framing, Cross-Functional Leadership, Portfolio Prioritization, Technical Capability Development, Exploration & Appraisal Drilling

**Software**: Petrel, GeoX, Tableau, Decision Frameworks Tools, ArcGIS, DeeSse, Palisade Suite, Office

**Regions worked:** Guyana, Brazil, Mauritania, East Med, Cyprus, Barents Sea, France, Portugal, Offshore Adriatic, Black Sea, Ukraine, Hungary, Poland, Libya, SE Asia

**Professional Experience**

**ExxonMobil, Jan 2009 – Present**

**Global Advisor for Resource Assessment & Uncertainty Analysis: Houston, Aug 2023 – Present**

* **Delivered 10+ GeoX resource assessments across multiple Guyana development projects**, stewarded risked volume estimates and informed investment decisions and field development plans, maximizing potential value
* **Drove uncertainty and scenario framing evaluation** for **16 SE Guyana reservoirs**, directly supported a **$10B+ Longtail development decision** and gas development strategy for the Haimara cluster
  + **Designed & implemented complex multi-segment aggregate** volumetric assessments for gas-condensate reservoirs, integrated sparse well calibration, seismic, pressure data & complex dependencies
  + **Updated a three-interval static reservoir model** to inform scenario-based analysis, integrated complex fluids & dynamic data to support & design field development program for the Turbot reservoir, Guyana
* **Facilitated** decision quality and framing workshops for 4 major projects: Guyana Longtail, South East Gas Area, LaBarge CCS, and Permian Basin Unconventional resources to identify pathways to value and challenges
* **Created cross-disciplinary alignment**; integrated Petrel Monte-Carlo plug-ins & GeoX, to develop consistent, probabilistic scenario-based resource assessments between reservoir engineering & geoscience teams
* **Enhanced corporate guidance** on subsurface scenario-based analysis across conventional, unconventional, and carbon capture & storage (CCS) assets
* **Developed** internal **risking methodology** for CCS uncertainty, strengthening project evaluation in support of energy transition efforts
* **Built and led training programs** on statistics, risking, and uncertainty analysis for geoscience and engineering teams, driving technical consistency and decision quality across the ExxonMobil Upstream
* **Drove global technical excellence; delivered and coordinated** ExxonMobil’s Uncertainty Analysis Lecture Series and Reservoir Modelling Symposium for a global audience to enable knowledge transfer
* **Delivered** formal presentations & recommendations to senior leaders and cross functional stakeholders
* **Mentored numerous geoscientists**, strengthened capability in uncertainty analysis and volumetric assessment
* **Member of ExxonMobil’s Regional Response Team, Operations** & UK Emergency Support Group, provided real-time crisis support, situation management & contingency response for oil spills or incidents

**Senior Geoscientist: Exploration & New Ventures, Eastern Med**, **London, Jan 2017 – July 2023**

* **Led the exploration maturation, discovery and appraisal of the Glaucus field** offshore Cyprus; coordinated a global, multidisciplinary team, through prospect maturation, characterization, assessment & drilling operations
  + **Spearheaded** two successful drilling campaigns (Glaucus 1 &2), safely delivered frontier deep-water exploration wells & advocated for critical dynamic data acquisition for flow and in-place volume evaluation
  + **Pioneered** object-based stochastic algorithms (DeeSse) for reservoir architecture
  + Built a **concept-driven geological model**, captured complex reservoir architecture and flow implications to inform future field development plan in complex sub-salt, poorly imaged area
  + **Generated appraisal strategy for development** and guided real-time decisions on Formation Evaluation program, Total Depth criteria and well testing program
* **Shaped Cyprus prospect portfolio optimization** and **Block 5 pursuit. Conducted** and **advised the East Med team on** **probabilistic assessments** and **uncertainty analysis, coordinated and lead multiple workshops**
* **Built alignment** with senior leaders, Cyprus government, ministry & partners (Qatar Energy) for successful project execution through formal and informal leadership, advocacy and delivery of formal presentations
* **Convened and participated in** the 3rd East Mediterranean EAGE Conference as a Technical Committee Member

**Geoscientist: Exploration & New Ventures, Europe, London, Jan 2009 – Dec 2016**

* **Interpreted 2D & 3D seismic, well data and integrated regional geology** for petroleum play definition, prospect identification, mapping, assessment and risking
* **Built foundational expertise across diverse basins**, executed evaluation of tender rounds (23rd Barents License Round) & focus studies (Atlantic Margin, Adriatic, Black Sea) across Europe
* **Prepared bid documents** & designed license work program for applications offshore France & Ukraine
* **Generated prospect inventory** and assessments in Turkish Black Sea and offshore Libya on 2D seismic data
* **Completed hydrocarbon system analysis and evaluated play potential** of unconventional resources onshore Hungary and Poland

**Research & Internships:**

* TOTAL, ‘CO₂ Origin Prediction via Geochemistry in SE Asia’ (2008, Paris)
* Institut de Physique du Globe Paris, ‘Tsunami Gravity Wave Propagation Modeling’ (2008, Paris)
* University of Chicago, ‘Isotope Analysis of Meteorites’ (2007, Chicago)
* Centre de Recherches Pétrographiques et Géochimiques, ‘Rare Earth Elements in 3.8Ga dolomite’ (2007, Nancy)

**Affiliations & Professional Training**

**Affiliations**: Fellow of the Geological Society of London, Member of the Society of Decision Professionals

**Professional Training**: ExxonMobil’s Flagship Geoscience Schools