**Joshua Springett**

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**Senior Geoscientist, Opportunity Generator, Quantitative Seismic Interpreter, Exploration & Development**

Seasoned geoscience technical leader with 16 years at ExxonMobil, delivering high-value exploration & development projects. Proven opportunity generator & strategic thinker. Captured five licenses in Namibia, increased recoverable volumes by >38% EUR at Yellowtail; $500M additional net present value, creating opportunities through innovative seismic interpretation & reservoir characterization. Led cross-functional global teams of 12. Known for driving collaborative problem solving & mentoring early-career talent. Recognized instructor in deepwater stratigraphy, driving technical quality & challenging geological paradigms. Dual UK - French citizen; native English, B2-C1 French. Eager to apply innovative geoscience & strategic leadership to high-impact challenges in exploration & development.

**Education:**

MSci Geology & Geophysics, 1st Class, Royal School of Mines, Imperial College London, year abroad UCLA, California (2009)

**Technical Skills**:

2D & 3D Seismic Interpretation, AVO, Seismic Attributes, 3D Volume visualization, Reservoir Characterization & Modeling, Subsurface Geoscience Data Integration, Deepwater Stratigraphy, Prospect Mapping & Assessment, Risk & Uncertainty Evaluation, Data Room Evaluation, Formation Evaluation, Petroleum Systems Analysis, Field Development Planning, Well Planning & Operations, Geosteering

**Leadership Skills:**

Technical Team Leadership, Project & Timeline Management, Partner & Stakeholder Relations, Project Work Program Design, Exploration Portfolio & Risk Management, Mentorship & Coaching, Field Safety Leadership, Technical Review & Quality Assurance

**Geographic Experience:**

Guyana, Namibia, South Africa, Gabon, Angola, Congo, East Med, Mozambique, Tanzania, Kenya, African Interior Rifts, Morocco, Western Sahara, Mauritania, Senegal, Red Sea, East India, South Korea, Black Sea, Neuquen, GOM, Kurdistan, Faroes, Western Siberia

**Professional Training:**

ExxonMobil’s Enterprise Leadership Development Program, Integrated Reservoir Characterization & Management, Dynamic Data Integration, Execute to Produce & Optimize, Flagship Geoscience Geology, Geophysics, Operations, Formation Evaluation & Field Schools

**Software:**

Petrel, Kingdom, Palaeoscan, GeoTeric, GeoX, ArcMap, Tableau, RocDoK, PetroMod, Office, Python

**Professional Experience:**

**ExxonMobil, Senior Development Geoscientist: Yellowtail Field, Guyana, Houston, 08/2023 - Present**

* Spearheaded novel reservoir characterization and innovative update to Yellowtail Reservoir 2 field development plan, increased EUR by 38%, 92 million barrels of oil, additional $350M in Net Present Value
* Executed Yellowtail Res 2 seismic framework mapping & interpretation of 3D Ocean Bottom Node & streamer data sets, created novel reservoir model, integrated static pressure data for compartment definition
* Directed a cross-functional team to prepare & plan for Yellowtail Reservoir 2 field startup, coordinated with reservoir engineering & geomodelers to integrate dynamic & production data to update static reservoir model
* Integrated seismic, well logs, AUDR (Azimuthal Ultra Deep Resistivity) images & core into reservoir models, characterized fluid movement and maximized recovery; delayed water breakthrough by two years at Res 2
* Led a team of six to generate (OBN) 3D seismic and well framework for Yellowtail and Whiptail developments, integrated core data, created novel EODs, seismic reservoir architecture, established facies types & distributions
* Planned 21 & geosteered 10 horizontal development wells; ensured accurate placement & reduced drilling risk
* Pioneered Machine Learning AI regional 3D seismic fault mapping study, accelerated fault interpretation by 60% & authored Petrel interpretation workflows which decreased seismic framework mapping time by ~70%
* Headed a four-person team on the ‘Yellowtail Induced Seismicity Study’, delivering monthly updates and a formal report to the Guyanese government to meet license commitments
* Represented ExxonMobil to partners, government & ministry, presenting analysis & recommendations
* Transferred knowledge to Exploration and Development teams through mentorship & training in core description, 2D & 3D seismic mapping & reservoir characterization increasing organizational effectiveness
* Established project plans and performance milestones as formal mentor for early career professionals & interns
* Enforced standards as active member of technical quality assurance team, responsible for review of prospects
* Executed subsurface technical evaluation and assessment of offshore South Korean exploration opportunity and used deep African regional knowledge to support evaluations in SW Africa, Gabon, Congo & Angola

**ExxonMobil: Geoscience Business Development Advisor, Global Exploration, London, 04/2021 - 08/2023**

* Led a global team of 10 geoscientists & analysts to reorganize Business Intelligence function, accelerated opportunity identification, increased cross-functional collaboration, liaised with executive steering committee
* Represented ExxonMobil at MMEA\* & LACAS\*\* industry scout meetings, networked effectively for opportunity identification, gathered business intelligence, collaborated with management to form exploration strategies
* Executed Egyptian gas‑market study to underpin East Med license management & development strategy, collaborated across gas market, global energy outlook & geoscience teams, presented formal recommendations
* Coordinated subsurface evaluation of East Indian deepwater basins in partnership with Indian NOC, ONGC. Mapped play & prospect inventory, created potential capture strategies and drove exploration focus
* Convened ‘Southern South Atlantic Conjugate Margins’ geoscience technical conference at Geological Society London, presented at PESGB Africa ‘Stratigraphic Evolution of the Red Sea Basin’

**ExxonMobil: Geoscience Technical Team Lead, Africa Business Development, London, 04/2019 - 04/2021**

* Drove Namibia country entry, partnered with commercial specialists to capture 5 licenses via farm-in & direct negotiation, planned seismic work program, wrote bid documents and presented to Oil Ministry & Regulator
* Led a large cross-functional global team to evaluate all African basins for hydrocarbon potential, created a scoring & classification scheme to enable opportunity generation & selection in Tableau for active portfolio management
* Coordinated a team through numerous data‑room evaluations, regional studies, lead inventory mapping, economic screenings & tender rounds, built strong external relationships with governments & partners
* Recognized prospect generator, integrator and creative, identified numerous leads & prospects in diverse petroleum plays, highly experienced new opportunity practitioner driving African Exploration business

**ExxonMobil: Senior Exploration Geoscientist, Africa Business Development, London, 08/2012 - 04/2019**

* Led subsurface farm‑out of XOM’s offshore South Africa equity to Equinor, secured partner funding and risk share
* Spearheaded the technical evaluation of more than 40 data rooms globally. Recognized expert in petroleum play analysis and risking, regional analysis and integration, data room evaluation specialist
* Delivered quantitative seismic interpretations & 3D volume visualizations. 2D & 3D seismic data, well ties and DHI AVO analysis, anomaly forward modeling for prospect identification & maturation; onshore and offshore
* Executed numerous volumetric & risk assessments of leads, prospects and plays for economic analysis in both clastic and carbonate environments in rank frontier, emerging and mature basins
* Drove sequence‑stratigraphic & structural‑mapping projects in compressional, extensional and salt basins, integrated complex seismic & well data and onshore satellite imagery, gravity and magnetic data sets
* Completed well log analysis, mapped regional frameworks, hydrocarbon‑system audits, mapped source‑rock facies, built basin models, source rock maturity & timing maps for petroleum play identification & risking
* Led a culture of continuous safety improvement for 120 staff, awarded President’s Prize for Safety Leadership

**ExxonMobil: Operations Geologist, Worldwide Geological Operations, Houston, 08/2011 - 09/2012**

* Completed drill well planning, pore pressure prediction, pressure surveillance & site investigation for 16 global exploration wells. Wellsite geologist for deepwater GOM well, leading operations reporting & coordination

**ExxonMobil: Geoscientist, Black Sea Exploration Turkey, Operations, London, 08/2009 - 08/2011**

* Mapped & drilled frontier deepwater exploration prospect Kastamonu‑1 on 2D seismic; first test of the play

**Affiliations**: Fellow of the Geological Society of London

**Publications:**  [From Grainsize to Tectonics](https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009JF001495) in Journal of Geophysical Research, [Decoding Downstream Trends in Stratigraphic Grainsize as a Function of Tectonic Subsidence](https://pubs.geoscienceworld.org/gsa/gsabulletin/article-abstract/123/7-8/1363/125680/Decoding-downstream-trends-in-stratigraphic-grain?redirectedFrom=fulltext) in Geological Society of America Bulletin

**Professional Growth:**  Ongoing development of Python proficiency for geoscientific analysis and automation

*\*Mediterranean, Middle East & Africa \*\* Latin and Central Americas*