

Fellippe Bione *Geologist (DSc)*

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Languages: Portuguese (native) | English (fluent) | Spanish (intermediate)

Profile

A professional with five years of experience in geoscientific software development projects (R&D), looking forward to solving scientific-industrial problems by developing creative solutions through highly adaptive and proactive work. I have large experience in working at multidisciplinary projects for technological innovation, especially those related to geological modeling and applied research. I am always curious about learning new topics and open to new challenges.

Education

DOCTORAL DEGREE IN GEOSCIENCES | 2024 | UNIVERSIDADE FEDERAL FLUMINENSE

MASTER DEGREE IN GEOLOGY | 2019 | UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

DEGREE IN GEOLOGY | 2016 | UNIVERSIDADE FEDERAL DO RIO DE JANEIRO

Professional Experience

SENIOR GEOSCIENTIST @ ELIIS | AUGUST 2024 - PRESENT

- Geological consultancy;
- R&D and Project Management (database related - Petrobras);
- Project proposals;
- Algorithm development (PaleoScan™ Python Extension);
- Events presentations;
- Software testing;

GEOLOGIST @ PETROSOFT DESIGN | NOVEMBER 2021 - AUGUST 2024

- Geological consultancy;
- Algorithm development and project proposals;
- Meeting with company's decision-makers to align needs and maximize the integration of proposed solutions to the main framework;
- Software testing and QA/QC;
- Client support;
- Scientific and technical report writing.

RESEARCHER @ LOOP - UFF | MARCH 2019 - DECEMBER 2022

- Data interpretation, spatialization and modeling (well log, seismic and geochemical data);
- Software development - team management, conceptual model, code writing (Python);
- Sequence stratigraphy and 3D stratigraphic modeling (Espírito Santo Basin);
- Mentoring undergraduate students of different areas (geology, geophysics and computer sciences).

Skills

- Geological modeling;
- Stratigraphy;
- Seismic data;
- Geoprocessing;
- Data science;
- Geophysics;
- Team management;
- Python;
- Machine Learning;
- Version control (git);
- G&G software;
- Problem-solving;
- Team-working;
- Agile developments.

Courses and Certificates

DATA ANALYSIS WITH PYTHON | 2021 | IBM – COURSERA | 13 h

EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING | 2021 | IBM – COURSERA | 8 h

DIONISOSFLOW TRAINING | 2021 | IFP ENERGIES NOUVELLES | 6 h

STRATIGRAPHIC FORWARD MODELLING: A SHORT INTRODUCTION TO DIONISOSFLOW | 2019 | IFP ENERGIES NOUVELLES | 16 h

OFFSHORE DRILLING TECHNIQUES | 2016 | TOTAL PROFESSEURS ASSOCIÉS and TOTAL E&P DO BRASIL | 20 H

Registered Patents

Albuquerque, A.L.S., Venancio, I.M., **Bione, F.R.A.**, Abreu, P.V., Couto, L.L., Moreira, M., Bernardes, M.C., Belem, A.L., Santos, T.P., Díaz, R., Souza, I.V.A.F., Spigolón, A.L.D. 2021. **Método de determinação do conteúdo, qualidade e maturação da matéria orgânica em ambiente marinho para exploração de poços de petróleo.** Instituto Nacional da Propriedade Industrial, Brazil. Depositors: Petróleo Brasileiro S.A., Federal Fluminense University. Attorney: Francisco Carlos Rodrigues Silva. BR 102021025711-3 A2, 2023. Deposit date: December 18th 2021. National Publication date: June 20th **2023**.

Albuquerque, A.L.S., Venancio, I.M., **Bione, F.R.A.**, Abreu, P.V., Couto, L.L., Moreira, M., Bernardes, M.C., Belem, A.L., Santos, T.P., Díaz, R., Souza, I.V.A.F., Spigolón, A.L.D. 2021. **Method for determining the content, quality and maturation of organic matter in marine environment for exploration of oil wells.** United States Patent and Trademark Office, United States. Patent: Utility model. Registry number: US2023/0195966A1, 2023. Deposit date: December 19th 2022. Publication date: June 22nd **2023**. Financing institutions: Petróleo Brasileiro S.A., Federal Fluminense University.

Scientific Publications

Bione, F.R.A. et al. **Estimating total organic carbon of potential source rocks in the Espírito Santo Basin, SE Brazil, using XGBoost.** *Marine and Petroleum Geology*, 162, 106765, **2024**. <https://doi.org/10.1016/j.marpetgeo.2024.106765>

Santos, T.P., Lisboa, L.P., Carreira, V., **Bione, F.R.A.**, Venancio, I.M., Bernardes, M.C., Belem, A.L., Díaz, R., Moreira, M., Lopes, A.A.O., Santos, T.L., Souza, I.V., Spigolon, A.L.D., Albuquerque, A.L.S. **Orbitally-driven Paleogene to Neogene deposition in the western South Atlantic (Espírito Santo Basin) and its correlation with global sea level.** *Sedimentology*, **2023**. <https://doi.org/10.1111/sed.13104>

Venancio, I.M., Santos, T.P., **Bione, F.R.A.**, Belem, A.L., Bernardes, M.C., Díaz, R., Moreira, M., Carreira, V., Spigolon, A., Souza, I.V.A.F., Albuquerque, A.L.S. **Preservation Factors during Cretaceous Oceanic Anoxic Events in the Espírito Santo Basin, Southeast Brazil.** *Geosciences*, 12(10), 251, **2022**. <https://doi.org/10.3390/geosciences12100351>

Venancio, I.M., Belem, A.L., Santos, T.P., Lessa, D.O., **Bione, F.R.A.**, Díaz, R., Bernardes, M.C., Souza, I.V.A.F., Coutinho, L.F.C., Albuquerque, A.L.S. **Temporal and spatial differences between predicted and measured organic carbon in South Atlantic sediments: constraints to organic facies modelling.** *Marine and Petroleum Geology*, 138, 105524, **2022**. <https://doi.org/10.1016/j.marpetgeo.2022.105524>

Santos T.P., **Bione F.R.A.**, Venancio I.M., Bernardes M.C., Belem A.L., Lisboa L.P., Franco D.R., Díaz R.A., Moreira M., Leonardo N.F., Souza I.V., Albuquerque A.L.S. **Late Cretaceous astrochronology, organic carbon evolution, and paleoclimate inferences for the subtropical western South Atlantic, Espírito Santo Basin.** *Cretaceous Research*, 129, 105032, **2021**. <https://doi.org/10.1016/j.cretres.2021.105032>

Bione, F.R.A. et al., **2019. Geochemistry, Sm-Nd isotopes and SHRIMP U-Pb geochronology of the Morro do Coco Granite (RJ, Brazil): another piece of the post-collisional magmatism of the Ribeira Belt.** *Braz. J. Geol.*, 49(3): e20190010. <http://dx.doi.org/10.1590/2317-4889201920190010>.