FELLIPPE BIONE

GEOLOGIST (DSc)

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ABOUT

A professional with five years of experience in R&D and geoscientific software development projects, 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.

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

CURRENT ACTIVITY

GEOLOGIST AT PETROSOFT DESIGN:

November 2021 - Present

- 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.

EDUCATION

DOCTORAL DEGREE IN GEOSCIENCES

2024 | Universidade Federal Fluminense - UFF

MASTER DEGREE IN GEOLOGY

2019 | Universidade Federal do Rio de Janeiro - UFRJ

DEGREE IN GEOLOGY

2016 | Universidade Federal do Rio de Janeiro - UFRJ

ONE-YEAR INTERNATIONAL SCHOLARSHIP

2014 | University of Queensland - UQ - Australia

RECENT ACTIVITY

PHD RESEARCHER AT LOOP (UFF):

March 2019 - December 2022

- Data interpretation, spatialization and modeling (well log, seismic, geochemical and other geological data);
- Software development team management, conceptual model, code writing (Python) and QA/QC;
- Sequence stratigraphy and 3D stratigraphic modeling (Espírito Santo Basin);
- Mentoring undergraduate students (geology, geophysics and computer science students).

STUDY AREAS **TECHNICAL SKILLS PERSONAL SKILLS** Geological modeling Python programming Creative Geoprocessing **GIS** Problem-solver Stratigraphy G&G Software Innovate Geochemistry Software testing Proactive Versioning (git) Team worker Geophysics Agile development Data science Leader Machine Learning

SCIENTIFIC PUBLICATIONS

- BIONE F.R.A., Venancio I.M., Santos T.P., Belem A.L., Rangel B.R., Souza I.V.A.F., Spigolon A.L.D., Albuquerque A.L.S. Estimating total organic carbon of potential source rocks in the Espírito Santo Basin, SE Brazil, using XGBoost. Marine and Petroleum Geology, 162, 106765, 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. 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. 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. https://doi.org/10.1016/j.cretres.2021.105032
- Bione F.R.A., Bongiolo E.M., Mendes J.C., Roland C.L. 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.

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.

ISSUED ONLINE CERTIFICATES

2021



Data Analysis with Python IBM - Issued by Coursera 13 hours



Exploratory Data Analysis for Machine Learning IBM - Issued by Coursera 8 hours

OTHER COURSES

2021 DIONISOSFLOW TRAINING

DIDIER GRANJEON and BENOIT CHAUVEAU - IFP ENERGIES NOUVELLES

6 hours

2019 STRATIGRAPHIC FORWARD MODELLING: A SHORT INTRODUCTION TO DIONISOSFLOW

BENOIT CHAUVEAU - IFP ENERGIES NOUVELLES

16 hours

2016 OFFSHORE DRILLING TECHNIQUES

ALPHONSE GRYNKO - TOTAL Professeurs Associés & TOTAL E&P do Brasil