



# Liliana Bishop

## Geophysicist / Rock Physicist

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### STRENGTHS

- 💡 **Passionate Problem Solver**  
Skilled at unraveling intricate geophysical challenges, becoming a trusted resource among colleagues.
- 🗣️ **Effective Communicator**  
Establish rapport through clear communication of complex concepts, fostering team understanding and collaboration.
- ⚙️ **Innovative Thinker**  
Regularly contribute creative solutions resulting in improved processes and elevated project results, earning recognition.
- 👥 **Team Collaborator**  
Work effectively alongside cross-functional teams achieving shared goals, enhancing operational effectiveness.
- 📖 **Continuous Learner**  
Dedicated to ongoing skill enhancement; consistently explore new technologies relevant to the evolving field of geophysics.

### SKILLS

AI/ML Technologies  
Geophysical Analysis  
Rock Physics Data Interpretation  
Algorithm Development  
Research & Development  
Team Collaboration  
Technical Communication  
Problem Solving Data Analysis  
Statistical Software  
Software Integration  
Documentation Standards

### SUMMARY

Driven geophysicist with a strong foundation in AI/ML technologies applied to rock physics and geophysical analysis. Passionate about uncovering new insights through innovative solutions that leverage advanced technology. Experience conducting research and development projects within a rapid-paced environment, employing collaborative approaches to achieve effective and timely outcomes. Acknowledged for communicating complex findings clearly, fostering transparency between teams and stakeholders, and mentoring junior members to elevate team competencies. Eager to support Innovate Tech Solutions in transforming the energy landscape through cutting-edge research and application.

### EXPERIENCE

#### Geophysicist / Rock Physicist

Innovate Tech Solutions 📅 January 2024 - Present 📍 Austin, TX

As a Geophysicist/Rock Physicist, led innovative R&D projects applying AI/ML technologies to geophysical analysis. Involved in driving accuracy improvements and efficiency enhancements in results for clients. Conducted advanced problem-solving initiatives, collaborating closely with industry experts on diverse multidisciplinary teams.

- Conducted R&D projects leveraging AI/ML technology to enhance geophysical analysis, resulting in a notable increase in data interpretation accuracy.
- Collaborated with a multidisciplinary team to develop novel algorithms improving workflow efficiency by streamlining processing times significantly.
- Analyzed complex geophysical datasets using advanced problem-solving techniques, leading to creative and practical solutions for client challenges.
- Developed and maintained AI/ML tools facilitating seamless integration into existing geophysical workflows, positively impacting timelines.
- Communicated research findings and project updates effectively to internal teams and external stakeholders, enhancing project visibility.
- Mentored junior team members on geophysical principles and AI/ML applications, fostering an encouraging knowledge-sharing environment.

#### Junior Geophysicist

GeoData Innovations 📅 June 2021 - December 2023 📍 Houston, TX

Served as Junior Geophysicist focusing on machine learning application within geophysical modeling. Experience included creating robust predictive models and supporting significant improvements in geophysical processes.

- Assisted in developing geophysical models utilizing machine learning strategies, contributing to projects markedly boosting predictive capabilities.
- Participated in collaborative research projects on rock physics, enriching understanding of subsurface conditions for critical client projects.
- Implemented new testing methodologies which significantly diminished errors in geophysical data collection, benefitting company projects.
- Presented findings at esteemed conferences, improving company visibility and establishing valuable relationships within the geophysical community.
- Maintained thorough documentation regarding research processes and outcomes, ensuring compliance with data privacy protocols.
- Engaged in knowledge transfer sessions that expanded team skills in emerging AI/ML technologies.

#### Research Assistant

Data Insights Lab 📅 September 2019 - May 2021 📍 College Station, TX

Conference Presentation

Workflow Optimization

Model Validation

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- Geophysicist / Rock Physicist at Innovate Tech Solutions (2.6 Years)
- Junior Geophysicist at GeoData Innovations (2.5 Years)
- Research Assistant at Data Insights Lab (1.7 Years)

- Actively contributed to academic research projects related to geophysical data interpretation and rock physics with opportunities to showcase discoveries through publications.
- Participated in academic inquiries focusing on geophysical data interpretation and rock physics, culminating in several peer-reviewed publications.
  - Utilized statistical software to examine datasets and deliver crucial insights guiding project direction and outcomes effectively.
  - Crafted presentations for prominent academic conferences, skillfully showcasing research methodologies and significant findings.
  - Collaborated with faculty and researchers exploring innovative machine learning applications tailored to geophysical studies and their potential.
  - Helped organize university-sponsored workshops aimed at educating colleagues about advanced geophysical techniques and methodologies.

LEADERSHIP & AWARDS

- Dean's List, Texas A&M University, 2019-2021
- Best Research Presentation, Geophysics Conference, 2020

EDUCATION

**Master of Science in Geophysics**  
Texas A&M University 🎓 GPA: 3.85 📅 2021 📍 College Station, TX  
***Coursework:** Geophysical Data Analysis, Machine Learning Applications, Computational Geophysics, Advanced Rock Physics*

**Bachelor of Science in Physics**  
University of Texas at Austin 🎓 GPA: 3.70 📅 2019 📍 Austin, TX  
***Coursework:** Classical Mechanics, Quantum Mechanics, Thermodynamics, Electromagnetism*

CERTIFICATIONS

- Certified Geophysicist 📅 2022
- Machine Learning Specialization 📅 2023

TECHNICAL SKILLS

- **AI/ML Tools:** TensorFlow, PyTorch, Scikit-Learn
- **Data Analysis Software:** MATLAB, Python, R
- **Geophysical Modeling Techniques:** Finite Element Method, GeoStat, Reservoir Simulation
- **Technical Documentation Standards:** ISO, IEEE, ASTM
- **Collaboration Platforms:** GitHub, Slack, Microsoft Teams
- **Cloud Computing Services:** AWS, Azure, Google Cloud
- **Statistical Modeling Software:** SAS, SPSS, Minitab
- **Project Management Tools:** JIRA, Asana, Trello
- **Machine Learning Frameworks:** Keras, XGBoost, LightGBM
- **Data Visualization Tools:** Tableau, Power BI, Matplotlib

PROFESSIONAL AFFILIATIONS

- Member, Geophysical Society, 2020-Present
- Volunteer, STEM Outreach Program, 2021-Present

ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST