



# Stella Beck

## Geophysicist/Geodesist

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### STRENGTHS

- 🔍 **Analytical Skills**  
Refined the ability to pinpoint data inaccuracies during analysis, driving actionable insights.
- 👥 **Leadership**  
Energy led diverse teams towards delivering successful research outcomes amid tight timelines.
- 💡 **Creative Problem Solving**  
Proactively found solutions for complex geophysical challenges, enhancing team decision-making processes.
- 🔄 **Adaptability**  
Thrived under pressure, quickly adjusting strategies according to evolving project demands.
- 💬 **Effective Communication**  
Expertly articulated technical concepts to stakeholders, gaining trust and clarifying expectations.

### SKILLS

Geophysical Data Analysis

Algorithm Development

Software Development MATLAB

Python Machine Learning

Signal Processing

Research Leadership

Technical Documentation

Data Visualization

Team Collaboration

Problem Resolution

Statistical Analysis

Sensor Evaluation

### SUMMARY

Driven geophysicist with over five years in geophysical data analysis and navigation systems. Experienced in developing innovative algorithms and user-friendly software tools for real-world applications. Strong background in physics and mathematics, complemented by a Master's degree in Geophysics. Skilled at leading research initiatives that integrate advanced data science methods to enhance defense-related navigation modalities. Passionate about supporting critical national missions through accurate geophysical insights and mentoring fellow researchers.

### EXPERIENCE

#### Geophysicist

GeoDynamics Solutions 📅 June 2021 - Present 📍 Washington, DC

Serves as a geophysicist specializing in data analysis relevant to military navigation systems, fostering powerful operational outcomes. Responsible for pioneering projects regarding the accuracy and applicability of geophysical data for various platforms.

- Analyzed geophysical data products, enhancing their reliability for military navigation systems.
- Developed algorithms integrating geophysical data into navigation frameworks, significantly improving mission success rates.
- Led interdisciplinary teams providing technical counsel on geophysical sensors' integration into defense operations.
- Collaborated closely with military sponsors to evaluate cutting-edge geophysical solutions responding to urgent needs.
- Created error models defining implications of geophysical data sources on mission-critical activities.
- Applied machine learning techniques, optimizing data processing workflows to achieve operational efficiency.

#### Junior Geophysicist

EarthTech Innovations 📅 August 2018 - May 2021 📍 Alexandria, VA

Contributed as a junior geophysicist, participating in software development pipelines aimed at advancing geophysical analyses. Collaborated intensively with senior team members to elevate service quality in defense technology.

- Supported production-level software tool creation for geophysical data analysis, enhancing user experience.
- Conducted extensive assessments of current navigation methodologies, suggesting valuable improvements.
- Assisted in geophysical data evaluations, ensuring alignment with military platform requirements.
- Engaged in collaborative research projects focused on refining geophysical analysis technologies.
- Participated in designing novel geophysical sensors, enabling innovative advances for national defense.
- Documented findings and generated comprehensive reports to inform stakeholder decisions.

### LEADERSHIP & AWARDS

- Certified Geophysicist, American Geophysical Union, 2021
- Excellence Award in Research, University of Maryland, 2020

### EDUCATION

#### Master's Degree in Geophysics

University of Maryland 🎓 GPA: 3.8 📅 2020 📍 College Park, MD

Geodesy Techniques

Advanced Analytics

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



● Geophysicist at  
GeoDynamics Solutions (5.2  
Years)

● Junior Geophysicist at  
EarthTech Innovations (2.8  
Years)

*Coursework: Geophysics, Earth Science, Mathematics, Signal Processing*

## CERTIFICATIONS

- Certified Geophysicist 📅 2021
- Project Management Professional (PMP) 📅 2025

## TECHNICAL SKILLS

- **Programming Languages:** MATLAB, Python, R
- **Data Analysis Tools:** Excel, MATLAB, Python Pandas
- **Visualization Software:** Tableau, Matplotlib, Seaborn
- **Machine Learning Frameworks:** TensorFlow, Scikit-learn, PyTorch
- **Development Methodologies:** Agile Development, Waterfall
- **Research Platforms:** GitHub, JIRA, Confluence
- **Testing Tools:** Unit Testing, Integration Testing, Regression Testing
- **Simulation Software:** MATLAB Simulink, COMSOL
- **Geospatial Analysis Tools:** ArcGIS, QGIS, Google Earth
- **Error Modeling Techniques:** Statistical Methods, Monte Carlo Simulations

## PROFESSIONAL AFFILIATIONS

- Member, American Geophysical Union
- Contributor, Geophysics Society of America

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST