Millie Chang

Graduate Geophysicist

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STRENGTHS

Analytical Thinking
Utilized analytical skills in simulations, deriving actionable insights from complex data patterns.

Effective Communication
Articulated technical concepts clearly during presentations, fostering engagement among peers and faculty.

Collaboration
Worked directly with diverse teams, boosting project outcomes through shared knowledge and expertise.

Attention to Detail
Maintained rigorous QC practices throughout testing, significantly minimizing errors in final outputs.

Problem Solving
Used creative problem-solving skills to address workflow challenges, enhancing efficiency and support structure.

SKILLS

Seismic Processing | Depth Imaging | Unix/Linux | Geoscience Software | Data Analysis | Technical Report Writing

LANGUAGES

English — Native

Mandarin — Proficient

SUMMARY

Enthusiastic graduate eager to join a leading geophysical team. Recent BSc in Geophysics with hands-on experience in seismic processing and depth imaging. Trained in using advanced geoscience software applications across diverse projects, ensuring quality control and accurate results. Proven ability to manage multiple tasks efficiently within set deadlines while collaborating effectively with peers and mentors. Excel in both written and verbal communication, fostering productive relationships within teams. Motivation centers on contributing to innovative projects, growing alongside skilled professionals in an engaging environment.

EDUCATION

Bachelor's Degree in Geophysics

University of Texas at Austin GPA: 3.7 2026 Austin, TX

Coursework: *Geological Structures, Seismic Wave Propagation, Signal Processing Methods, Data Analysis Techniques*

TECHNICAL SKILLS

- **Geoscience Applications:** Seismic Visualization, Depth Imaging Software, Geophysical Data Analysis
- **Programming Languages:** Python, MATLAB, R
- **Database Management:** PostgreSQL, MySQL, SQLite
- **Operating Systems:** Windows, Linux, Unix
- **Reporting Tools:** LaTeX, Microsoft Word, MATLAB Reports
- **Data Processing Tools:** MATLAB, Python Libraries, Shell Scripting
- **Seismic Processing Tools:** OpendTect, Kingdom Suite, GeoModeler
- **Version Control Systems:** Git, GitHub, Bitbucket
- **Visualization Software:** ArcGIS, ParaView, QGIS
- **Statistical Analysis Tools:** R, SPSS, Python (Pandas)

EXPERIENCE

Geophysics Research Intern

University Research Lab June 2025 - August 2026 Austin, TX

Supported research initiatives in seismic processing, working closely with a multidisciplinary team and leveraging specialized software tools.

- Conducted seismic velocity analysis, enhancing understanding of subsurface structures and geological formations.
- Developed QC attributes such as RMS maps and horizons for improved data interpretation and accuracy.
- Managed workflows effectively through dedicated geoscience software, optimizing project efficiency and timelines.
- Compiled detailed processing reports summarizing methodologies and findings to facilitate knowledge transfer.
- Collaborated with researchers on workflow assembly for complex seismic processing tasks.
- Addressed and resolved quality issues during production, improving overall process effectiveness.

Capstone Project Developer

Academic Research Project January 2025 - May 2025 Austin, TX

Led a graduate-level capstone project focusing on signal processing techniques relevant to geophysics, offering innovative insights into the field.

MY CAREER

- Geophysics Research Intern at University Research Lab (1.2 Years)
- Capstone Project Developer at Academic Research Project (4 Months)
- Student Geophysicist at University Project (3 Months)

- Performed in-depth studies analyzing digital signal processing techniques relevant to geophysical applications.
- Employed Unix and Linux systems for simulations and comprehensive data analysis.
- Created an extensive report detailing methods, results, and implications associated with findings.
- Presented project outcomes to faculty and peers, gaining accolades for presentation clarity and detail.
- Developed a prototype tool for seismic data processing, translating theoretical insights into practical applications.
- Participated in peer reviews, enhancing project outcomes through collaborative feedback.

Student Geophysicist

University Project September 2024 - December 2024 Austin, TX

Engaged in a focused group project highlighting real-world applications of geoscience software for effective data analysis.

- Worked collaboratively with team members to analyze seismic data for improved geological insight.
- Automated data processing tasks utilizing scripts, resulting in significant workflow efficiency advances.
- Enrolled in ongoing team discussions regarding project development and tackling technical challenges.
- Applied critical thinking skills to resolve job-related issues during processing runs, enhancing group efficacy.
- Documented processes to educate future users about project methodologies and findings for ongoing use.
- Received positive feedback from peers and educators alike for contributions toward project innovation.

LEADERSHIP & AWARDS

- Dean's List, University of Texas at Austin, 2024-2026
- Best Capstone Project Award, University of Texas at Austin, 2025

CERTIFICATIONS

- Introduction to Geophysics 2026
- Data Analysis in Geophysics 2026

PROFESSIONAL AFFILIATIONS

- Member, Geophysics Society, University of Texas at Austin
- Volunteer, Annual Science Fair, University of Texas at Austin

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST