

2021 DGS Milestones

Company

- Celebrated our third anniversary in business!
- Preferred provider for Halliburton and Amazon Network Partners

Research

- Our new *book Machine Learning for Science and Engineering* was accepted for publication by the SEG.
- The results of our *uncertainty of automated fault interpretations* project were presented in a joint paper at the 2021 AAPG and SEG Annual Conference and Exhibition.
- We advanced and verified our cloud-based stack of tools to *manage and analyze big-data prestack seismic*.
- We rapidly prototyped advanced techniques for *interpolating higher dimensional seismic data*.

Consulting

- Managed a client's onshore/offshore development team.
- Helped clients port advanced geoscience visualization software onto new operating systems.
- Scanned millions of lines of commercial software for security vulnerabilities.
- Delivered administrative and operational support for Halliburton's new cloud-based SeisSpace Essentials offering.
- Assisted in complex seismic data loading and project dataset management tasks.

Training

- We acquired and extended modern training materials for SeisSpace Power Users (and anyone who aspires to be a processing expert).
- We modernized and extended the SeisSpace processing system tutorials.
- We delivered a new version of our hands-on machine learning Python workshop, with added focus on Deep Learning.

Software development and support

- Updated and validated seamless data transfer technology between interpretation and processing systems.
- Revised and enhanced prestack seismic regularization software.
- Developed new contouring software to support more accurate geologic horizon mapping workflows.
- Worked with client on a novel multi-surface approach to horizontal well correlation.
- Update rendering technology for on-screen and hard copy of meshing data structures.
- Participated in designing novel subsurface hybrid meshing representations.

