

Josh Boschelli

Geophysicist/Environmental Scientist, Glorieta Geoscience Inc.

EXPERIENCE SUMMARY

- Geophysical project design, investigation, data analysis and oversight.
- Processing of seismic, magnetic, gravitational, electrical resistivity, and ground penetrating radar data for subsurface analysis, and map and model production.
- Software and program engineering encompassing: MATLAB, Linux, Bash, C, Python, FORTRAN, JavaScript, and VBA.
- Mathematical modeling of linear and nonlinear systems.
- Multi-format presentation of research and technical reports; narrow to broad audiences.
- Field work in Geological, Geophysical and surface water systems.
- Data analysis of water quality and source pollution control.

SELECTED PROJECT EXPERIENCE

Dairy/CAFO Environmental Monitoring, NM (2017-Present)

Provide consulting services to dairy facilities for compliance with groundwater discharge permits and environmental monitoring. Preparation of quarterly compliance report to state agencies. Data verification and validation through GGI's own online aggregate system CAFOWeb for data management of water quality, water usage and nutrient management

PREVIOUS WORK EXPERIENCE

OIINK Seismic Research Experiment, Indiana (2013-2016)

- Conducted a geophysical investigation of the subsurface of the Midwestern United States to identify covered geological hazards.
- Installation, maintenance, and removal of a multiyear seismic array spanning Illinois, Indiana, Missouri and Kentucky.
- Trained volunteers on field procedures, organized outreach events, and spoke at local meetings concerning potential earthquake hazards.

New Mexico Institute of Mining and Technology- Department of Mathematics, New Mexico (2011-2013):

- Conducted research under the supervision of faculty members to construct models for linear and nonlinear systems.
- Data analysis of samples collected from both public and proprietary sources.

New Mexico Geochronology Research Laboratory, New Mexico (2009-2010):

- Conducted research under the supervision of New Mexico Institute of Mining and Technology faculty member to study the timing and development of the Rio Grande Rift.
- Data analysis of samples collected from southern New Mexico.
- Participated in laboratory research using K/Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ isotope dating methods.

EDUCATION

B.S. Mathematics with a minor in Earth Science: New Mexico Institute of Mining and Technology, 2013

M.S. Geophysics with a focus in Seismology , Purdue University, 2016



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SKILLS

- Proficient in programming and working in Microsoft office, MATLAB, python, C, Bash, JavaScript, Seismic Unix, Minitab, and Arc GIS.
- Experience in Kingdom software, and the use and maintenance modern geophysical equipment, including seismometers, geophones, gravimeters and other geophysical equipment.
- Familiar with scientific, technical and grant writing.



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