

Stanford



Meredith Goebel

Physical Sci Res Scientist

Geophysics

Bio

BIO

Meredith Goebel primary interests center on the application of geophysical methods for addressing problems surrounding the evaluation and management of groundwater resources. She currently serves as a Research Scientist at Stanford University, developing methods for integrating new datasets into groundwater models to improve their accuracy and utility, specifically in California's Central Valley. In addition to this work, she is also involved in number of projects investigating new tools for groundwater recharge site assessment in the Central Valley.

Meredith completed her PhD in Geophysics at Stanford University, working with electrical and electromagnetic geophysical methods to map and monitor saltwater intrusion at both the lab and field scale. The field scale research for her PhD was conducted along the coast of the Monterey Bay, mapping the distribution of fresh and salt water in the subsurface both onshore and offshore along the bay. Prior to starting at Stanford she got her BA in Geophysics from UC Berkeley, and interned in the seismology group at Lawrence Livermore National Laboratory.

ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Geophysics

Publications

PUBLICATIONS

- **Managed aquifer recharge site assessment with electromagnetic imaging: Identification of recharge flow paths** *VADOSE ZONE JOURNAL*
Pepin, K., Knight, R., Goebel-Szenher, M., Kang, S.
2022
- **Induced seismicity during the 2012 Newberry EGS stimulation: Assessment of two advanced earthquake detection techniques at an EGS site** *GEOTHERMICS*
Templeton, D. C., Wang, J., Goebel, M. K., Harris, D. B., Cladouhos, T. T.
2020; 83
- **Mapping saltwater intrusion with an airborne electromagnetic method in the offshore coastal environment, Monterey Bay, California** *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*
Goebel, M., Knight, R., Halkjaer, M.
2019; 23