

Stanford



Ian Gottschalk

Ph.D. Student in Geophysics

Bio

BIO

Ian is a 5th year Ph.D. Student in the Environmental Geophysics group lead by Rosemary Knight. He is researching ways to use geophysical methods to reduce the uncertainty in management decisions. His research focuses on finding effective ways to relate the geophysical properties we measure to the groundwater properties and processes that we care about. His thesis investigates a method to combine the geophysical method of airborne electromagnetics with numerical groundwater models to better understand seawater intrusion.

Check out the "Research & Scholarship" tab and the Stanford GEM Center Website for more info!

STANFORD ADVISORS

- Rosemary Knight, Doctoral (Program)

LINKS

- GEM Center Website: <https://gemcenter.stanford.edu/>

Research & Scholarship

PROJECTS

- [Click Here] Integrating geophysics with geostatistical models to understand saltwater intrusion
- [Click Here] Creating subsurface flow models from electrical resistivity tomography for aquifer recharge and recovery

Publications

PUBLICATIONS

- **Integrating Non-Colocated Well and Geophysical Data to Capture Subsurface Heterogeneity at an Aquifer Recharge and Recovery Site** *Journal of Hydrology*
Gottschalk, I. P., Hermans, T., Knight, R., Caers, J., Cameron, D. A., Regnery, J., McCray, J. E.
2017; 555: 407-419

PRESENTATIONS

- A Remote Sensing Mass Balance Approach to Estimating Spatial Recharge in California's Central Valley Aquifers - Geological Society of America Fall Meeting (9/26/2016)
- Building Flow and Transport Models with Electrical Resistivity Tomography Data - AGU/SEG Hydrogeophysics Workshop (July 26, 2017)
- Integrating non-collocated well and geophysical data to capture lithological heterogeneity at a managed aquifer recharge and recovery site - AGU Fall Meeting (December 20, 2016)