

Nathan Keith, Staff Scientist

***EDUCATION***

- ***B.S. Physics, 2007.***  
University of California, San Diego
- ***California Single Subject Clear Credential, 2009.***  
***NCLB Highly Qualified Mathematics Instructor***  
Tulare County Teacher Induction Program
- Visual Basic Introduction and Intermediate Courses, 2016  
University of Missouri, St. Louis
- PyData Conference, 2014  
Programming and Data Mining Techniques  
Facebook, Mountain View, CA

***EMPLOYMENT HISTORY***

- ***Staff Scientist*** 2014 - present  
Ozark Underground Laboratory, Inc.  
Protem, MO
- ***Mathematics Instructor*** 2008 - 2014  
Granite Hills High School  
Porterville, CA

***SUMMARY OF EXPERTISE***

- Performing QA/QC on spectrofluorophotometer data gathered from dye tracing samples to compile certificates of analysis and reports for various ongoing projects.
- Leading educational workshop discussions on karst features, hydraulic conductivity, environmental influences, and cave ecosystems including microclimate, troglifauna and stygofauna at Tumbling Creek Cave.
- Implementing, servicing, and analyzing information from groundwater and microclimate dataloggers
- Injecting fluorescent tracer dyes, placing and collecting activated carbon and grab water samples, and implementing automatic pumped samplers for groundwater tracing projects.

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- Assisting in cave fauna surveys including endemic species (*Antrobia culveri*, *Chaetaspis aleyorum*, and *Brackenridgia ashleyi*) and recovery strategies for the federally endangered Tumbling Creek Cavesnail (*Antrobia culveri*).
- Performing statistical and data mining analysis and creating graphical representations of information gathered in the field.
- Performing alpha radiation monitoring in caves to trace airflow and evaluate concentrations of ionizing radiation.
- Writing computer programs in C, Python, and VB.NET as well as computer simulations and modules in Mathematica and MatLab.
- Resolving computer, technical and software issues.