# Tyler Yoklavich

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## Education

2024-Current M.S. Hydrogeology, University of Utah.
Advisor: Douglas Kip Solomon.

2019-2023 B. S. Environmental Geoscience, University of Utah. GPA 3.8/4.0

**Relevant Coursework:**

- Groundwater
- Groundwater Modeling
- Solute Transport and Subsurface Remediation
- Environmental Contaminant Partitioning
- Hydrology
- The Water Planet
- Introduction to GIS and Cartography
- Field Methods
- Field Geology I and II (Field Camp)
- Wasatch in the Field
- Paleoclimate Reconstruction
- Ecology and Evolution
- Conservation Biology
- Global Environmental Issues
- Reactive Earth (Intro to Geochemistry)
- Dynamic Earth (Intro to Geophysics)

**Honors and Awards:**

2024 University of Utah Stokes Memorial Graduate Research Fellowship

2023 University of Utah, Department of Geology and Geophysics: Outstanding Environmental Geoscience Student

2023 Undergraduate Research Scholar Designation

## Publications/Presentations

2024 McCormack, K. L., Li, J., Yoklavich, T. J., & Xia, Y. (2024). A review of fluids under nanoconfinement: Reactivity, geomechanics, phase transitions, and flow. *Physics of Fluids*, *36*(9).

2024 Yoklavich, T. and Solomon, D. K., (2024) Using Automated Seepage Meters to Quantify Surface Water Influence on Hidden Valley Springs, RANGE Undergraduate Research Journal, University of Utah.

2023 AGU Annual Meeting: Supercritical CO2 Injection: Physical Comparisons to Brine Injection for Informing Vertical Seismic Profiles (Poster)

2023 University of Utah Fall 2023 Undergraduate Research Symposium: Using Automated Seepage Meters to Quantify Surface Water Influence on Hidden Valley Springs (Oral Presentation)

2023 Utah Groundwater Conference: Using Automated Seepage Meters to Quantify Surface Water Influence on Hidden Valley Springs (Oral Presentation)

## Work Experience

2024-Current Hydrologic Technician, United States Geological Survey – Utah Water Science Center
- Conducted field work for water resources research including groundwater environmental tracer/age dating sampling, river synoptic surveys, tracer injection, and lake bathymetry

Spring 2024 Research Assistant, Utah Water Research Laboratory – Logan, Utah
- Conducted field work and data analysis for water resources research including SWE sampling and hydrograph analysis in Python.

2021- 2024 Hydrology Internship, Utah Army National Guard Environmental Resource Management
- Conducted groundwater seepage study of irrigation canal.
- Performed spring sampling for PFAS, stable isotopes, general water quality parameters.
- Provided general support to ERM with regulatory compliance monitoring, source protection, field work, and data analysis.

2021-2024 Research Assistant, Energy and Geoscience Institute, University of Utah
- Supported research by conducting literature review, assisting with technical writing, and performing simulation work.
- Supervised by Kevin McCormack, PhD and Brian McPherson, PhD

Fall 2023 Teaching Assistant, University of Utah, Department of Geology and Geophysics
- Provided support to teaching staff of Wasatch in the Field (GEO2500) by leading group discussions, supervising field trips, answering questions during group lab sessions.

Spring 2023 Teaching Assistant, University of Utah, Department of Geology and Geophysics
- Provided support to Dr. Kip Solomon for Water Planet (GEO3300) by grading assignments and supervising field trip.

2020-2021 Student Manager, University of Utah Housing and Residential Education
- Managed mailroom and resident help desk at Peterson Heritage Center on-campus commons area

## Service

2022 Parks and Public Lands' Native Plant Restoration Project, Salt Lake City, Volunteer

2021 Sageland Collaborative (Formerly the Wild Utah Project): Stream Restoration Volunteer

## Skills

- Water sampling (PFAS, stable isotopes, environmental tracers, general water quality parameters)
- Introductory Groundwater flow, solute transport, and aqueous geochemistry modeling (MODFLOW, MODPATH, RT3D, MT3D, SEEP2D, PetraSim, PHREEQC)
- ArcGIS Pro
- Field First Aid
- Microsoft Office (Excel, Word, PowerPoint)
- Adobe Suite (Illustrator, Photoshop, Acrobat)
- Introductory Python (Plotting, NumPy, Pandas, Jupyter Notebook)
- Introductory R (R Data structures, plotting, basic statistical analysis)
- Technical Writing
- Literature Review