KYLE COMPARE

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Florida State University
EOAS Building Rm 3037
1011 Academic Way
Tallahassee, FL 32306-4520

EDUCATION

Ph.D. Florida State University, Geology — In Progress
Research Area: Groundwater-surface water interaction in karst environments
Advisor: Ming Ye

M.S. Florida State University, Geology — 2020
Thesis: "Development and testing of an automated, in-situ groundwater seepage meter"

B.S. Florida State University, Geology — 2018
Minor in Chemistry
Magna Cum Laude
Honors Thesis: "Using natural radon (^{222}Rn) as a tracer of groundwater discharge in Lake Bradford"

PROFESSIONAL EXPERIENCE

Florida State University — 2018-present
Graduate Research/Teaching Assistant

Kansas Geological Survey, University of Kansas, Lawrence, KS — 2020
Applied Geohydrology Intern
- Project: Characterizing Intermittency and Subsurface Heterogeneity in the Middle Arkansas River Basin

Florida Geological Survey, Tallahassee, FL — 2017
GIS Intern

TEACHING EXPERIENCE

Florida State University — 2018-Present
Teaching Assistant
- ESC 1000L: Introduction to Earth Science Laboratory
- EVR 1001/1001L: Introduction to Environmental Science and Lab
- EVR 4922: Senior Environmental Science Capstone
- GLY 4751C: Introduction to Remote Sensing and GIS
- GLY 4790: Geology Field Camp

PUBLICATIONS

Zipper, S.C., Propescu, I., **Compare, K.**, Zhang, C., Seybold, E. Alternative stable states and hydrological regime shifts in a large intermittent river (*In Preparation for Environmental Research Letters)*

TECHNICAL REPORTS

Compare, K., Zipper, S. C., Zhang, C., & Seybold, E. (2021). Characterizing Streamflow Intermittency and Subsurface Heterogeneity in the Middle Arkansas River Basin (Kansas Geological Survey Open File Report 2021–1; p. 26).

PATENTS

Ye, M., **Compare, K.**, Dominguez, D., 2022. Automated Device for In-Situ Measurements of Groundwater Fluxes to Surface Water Bodies. US Patent Application 17/324,040, filed June 30, 2021. *Patent Pending.*

PRESENTATIONS

Zipper, S., **Compare, K.**, Propescu, I., Seybold, E., Zhang, C., Flow regimes and alternate stable states in a non-perennial river. Presented at American Geophysical Union Fall Meeting 2021 [Poster]

Compare, K. and Ye, M., Examining the Impacts of a Lake-Draining Sinkhole Event on the Down Gradient Aquifer. Presented at Geological Society of America Annual Meeting, 2021. [Oral]

Compare, K., Zipper, S., Seybold, E., Zhang, C., Groundwater-Driven Intermittency Regimes in a Seventh Order Intermittent River. Presented at American Geophysical Union Fall Meeting, 2020. [Oral]

Compare, K., Ye, M., Dominguez, D., Development and Testing an Automated, In-Situ Groundwater Seepage Meter. Presented at Geological Society of America Annual Meeting, 2020. [Oral]

Compare, K. Groundwater Seepage: Measuring the Unseen, Master's in 4 Finalist Competition, Florida State University, 2020 [Oral]

Compare, K. Using Natural Radon (^{222}Rn) as a Tracer of Groundwater Discharge into Lake Bradford. Presented at College of Arts and Sciences Celebration of Philanthropy Student Showcase, Florida State University, 2018 [Poster].

GRANTS AND AWARDS

Carbonate Critical Zone Research Coordination Network, GSA Travel Grant ($750) 2021

Weaver Geology Field Camp Scholarship ($2000) 2018

PROFESSIONAL SERVICE

AGU Hydrology Section Student Subcommittee (AGU-H3S) Member 2021-Current
AGU-H3S Secretary 2022

AGU Hydrology Section-Groundwater Technical Committee 2021-Current
Student Member

ASCE EWRI Groundwater Management Committee Student Member 2021

MENTORSHIP

Undergraduate Research Opportunity Program (UROP)
Mentee: Carolyn Emerson (2021-2022)
Project: Connecting climatic teleconnection events to sinkhole occurrence

OUTREACH

Source to Sink: A CompareCast 2021-Current
Co-Host of a podcast discussing environmental science and environmental education

Skype-a-Scientist
Vincenza High School, AP Environmental Science, December 2021
Jordan/Jackson Elementary School, 4th grade, October 2021
Chatsworth Elementary School, 4th grade, December 2020.

Science Fair Judge
Capital Regional Science Fair, Tallahassee, February 2017

PROFESSIONAL AFFILIATIONS

Carbonate Critical Zone Research Coordination Network, 2021-Present
American Society of Civil Engineers, 2021
American Geophysical Union, 2020-Present
Geological Society of America, 2016-Present

ADDITIONAL ACHIEVEMENTS

Outstanding Teaching Assistant Award Nominee (2022)
FSU Master's in 4 Competition Finalist (2018)
Geologist in Training (FL) Certification (2018)
Eagle Scout (2014)