

MYRON "MALISSE" LUMMUS

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Lawrence, KS, 66049

EDUCATION

UNIVERSITY OF KANSAS, Lawrence, KS

PhD in Geology

Expected Graduation: Spring 2024

Current GPA: 3.690

TRINITY UNIVERSITY, San Antonio, TX

B.S. in Geosciences, Cum Laude

Spring 2020

Final GPA: 3.632

AWARDS AND SCHOLARSHIPS

McNair Scholars Program

Summer 2019

Southwest Gem and Mineral Society Scholarship in Geology

Spring 2019

Edwin E. Ecker Scholarship in Geology

Spring 2018

Trinity University Dean's List

Fall 2017

FASTER Scholarship

Fall 2016

AEP Educational Award

Fall 2016

RESEARCH EXPERIENCE

Graduate Research Assistant

Quantifying Present and Future Glacial Meltwater Contributions to Stream Discharge in High Mountain Asia (ongoing project funded by NASA's High Mountain Asia Team)

University of Kansas, Lawrence, KS | Project Advisor: Dr. Leigh A. Stearns Fall 2020- Present

- Investigate the connections between the hydrosphere and cryosphere using various remote sensing, machine learning, and modeling techniques
- Engage with local stakeholders to ensure that results of the study will have the most impact on those most likely to be affected by glacier change in the region
- Collaborate with larger High Mountain Asia Team to improve and inform high level, interdisciplinary research

Undergraduate Researcher (Including senior thesis project)

Characterizing Dye Tracer Testing Including the Competitive Sorption of Florescent Dye and Groundwater Contaminants and the Lower Detection Limit of Dye on Granular Activated Carbon

Trinity University, San Antonio, TX | Project Advisor: Dr. Brady Ziegler Spring 2018- Spring 2020

- Created quantitative solutions of fluorescent dye and contaminants to be used in experiments

- Conducted controlled experiments that simulated natural karst systems by using mixed flow reactors to investigate the competitive sorption of dye and contaminants on granular activated carbon
- Quantified the amount of fluorescent dye adsorbed to GAC in the presence and absence of sorption competitors
- Synthesized findings into thesis paper

Undergraduate Researcher: Keck Geology Consortium- Gateway Project

Yellow Cedar Growth Response to Decadal Climatic Shifts at Cedar Lake, Juneau, Alaska

College of Wooster, Wooster, Ohio | Project Advisor: Dr. Greg Wiles

Summer 2017

- Collected tree ring samples in Juneau, Alaska over a week-long field campaign
- Collected, processed, and analyzed tree ring width data using dendrochronology techniques (COFECHA, ARSTAN, etc.) to record average growth of the species over time
- Investigated the correlation between tree ring width data and various climatic factors (mean temperature, precipitation, PDO, etc.) to gain a better understanding of the current decline of the species

ADDITIONAL EXPERIENCE

Graduate Teaching Assistant

Fall 2020

University of Kansas, Lawrence, Kansas

- Graded assignments and quizzes for introductory geology courses
- Fostered deeper student understanding of geology through tutorial hours
- Lead students through geologic concepts during fieldwork

Student Grader

Spring 2019

Trinity University, San Antonio, Texas

- Assisted grading assignments, labs, and quizzes for introductory geology courses

Texas Hydro Geo Workshop Participant

Boerne, Texas

Fall 2017; Fall 2018

- Explored various techniques of hydrology including well monitoring and tracer testing
- Executed stream gauging techniques in the field
- Networked with students, professionals, and academics in the fields of geology and hydrogeology

PRESENTATIONS

GSA Meeting: Phoenix, AZ

Fall 2019

Trinity University Undergraduate Research Symposium

Summer 2019

GSA Meeting: Seattle, WA

Fall 2017

TECHNICAL SKILLS

Microsoft Office Suite	Expert
UV-Vis Spectrophotometry	Expert
LS50B Luminescence Spectrometer	Expert
Adobe Illustrator	Intermediate
Python	Intermediate
QGIS	Intermediate
MATLAB	Novice
R Studio	Novice
COFECHA	Novice
ARSTAN	Novice

CAMPUS & COMMUNITY INVOLVEMENT

Member, American Geophysical Union	Fall 2020-Present
Vice President, Sigma Gama Epsilon Environment Studies Honor Society	Fall 2018-Spring 2020
Member, Geological Society of America	Spring 2017-Present
Member, Geology Club, Trinity University	Fall 2016-Spring 2020
President, Swing Bums Dance Club, Trinity University	Fall 2016-Spring 2020

RELEVANT COURSEWORK

Graduate

GEOG 560 GIS Application Programming	GEOL 503 Numerical Methods
GEOL 791 Grad Student Prof Skills & Ethics	GEOL 791 Writing in the Geosciences
GEOL 891 Special Topics: Glaciology	

Undergraduate

GEOS 4396 Thesis Research & Presentation	GEOS 3401 Structural Geology
GEOS 4395 Thesis Research	GEOS 3400 Earth Materials
GEOS 3491 Special Topic: Hydrogeology	GEOS 3310 Global Climate Change
GEOS 3422 Sedimentology & Stratigraphy	GEOS 3190 Directed Studies; 3 semesters
GEOS 3421 Environmental Geochemistry	GEOS 3120 Major's Field Trip; 2 semesters
GEOS 3412 Applied Geophysics	GEOS 2401 Earth History
GEOS 3408 GIS and Remote Sensing	GEOS 2400 Dynamic Earth

GEOS 1409 Earth's Environmental Systems
CHEM 4242 Advanced Analytical Chemistry
CHEM 3432 Analytical Chemistry
CHEM 1318 General Chemistry
CHEM 1118 General Chemistry Lab
MATH 1311 Calculus I
MATH 1312 Calculus II

MATH 1320 Statistical Methods
PHYS 1309 General Physics I
PHYS 1111 Introductory Physics Lab
PHYS 1310 General Physics II
PHYS 1112 Intermediate Physics Lab
CSCI 1311 Intro to Programming Logic