

Samuel J. Chester

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EDUCATION

Columbia University

PhD Candidate, Department of Earth and Environmental Sciences

Middlebury, VT

February 2022

Middlebury College

Bachelor of Arts, Geology (major), Computer Science (minor)

Middlebury, VT

February 2022

GPA: 3.8/4.0; College Scholar (highest academic honor) four semesters

Computer Skills: Python, C, MatLab, R, ArcGIS, QGIS

Concord Academy High School

Concord, MA

GPA: 4.2/4.3; Dean's List

May 2017

Athletics: Captain, Varsity Men's Squash

RESEARCH

Senior Thesis, Middlebury College, in prep.

2021

A Cretaceous cooling event in the southeast Adirondacks inferred from QTQt modeling of apatite (U-Th)/He and fission track dating

- A thermochronology study focusing on the tectonic history of Northern Appalachians
- Data analysis, scripting in R, modeling in thermochron software, and results interpretation
- I presented this work as a poster presentation at the Thermo2021 conference in Santa Fe, NM

Independent Study, University of Canterbury, New Zealand

2020

The role of coastal erosion and tectonic uplift in marine terrace formation: a modeling case study of Kaikoura Peninsula, New Zealand

- Developed an original, two-dimensional model for marine terrace formation in Python
- Combined remote sensing (in ArcGIS), and data analysis to model morphology based on published data sets

EXPERIENCE

Lemon Fair Insect Control District

Middlebury, VT

GIS Analyst and Field Technician Internship

Summer 2021

- Conducted GIS analysis in ArcGIS Pro and hydrologic modeling in Python
- Create a methodology for future remote sensing projects
- Presented our work at the New England Arc-Users Conference

Pine Island Camp

Belgrade Lakes, ME

Head Trip Leader, Shop Instructor and Camp Counselor

Summers 2017, 2018

- Lead 3-8 day backpacking and canoe trips for campers aged 9-15
- Run the wood shop program at the camp and train other staff in trip leading

Loon Preservation Conservation

Holderness, NH

Field Assistant

Summer 2016

- Aid field biologist in ongoing research
- Maintain field areas and set up designated loon habitats

ADDITIONAL

Activities and Interests: Music (banjo, guitar, and bass), triathlon (ironman and half-ironman competitor), wilderness photography, backpacking, winter camping, skiing, telemarking, and kayaking.