Julie Graduate

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Young professional seeking a research-based career within the environmental science field. Strong laboratory skills and a wide knowledge of scientific equipment developed through past research experience.

# Education

## Saint Michael’s College | colchester, vermont | may 2020

* Bachelor of Science in Environmental Science
* Minor: Biology & Chemistry
* Overall GPA: 3.56 • Major GPA: 3.51 • Achieved 3.925 or higher in last three consecutive semesters

## quinsigamond community college | worcester, massachusetts | SeptemBer 2016 – may 2017

* Attended via Dual Enrollment Program with Nashoba Regional High School in Bolton, Massachusetts

# Academic Honors

* Dean’s List, Saint Michael’s College
* Saint Michael’s College Academic Scholarship

# Relevant Coursework

|  |  |
| --- | --- |
| Environmental Studies | Environmental Research Methods |
| American Wilderness | Coral Reef Ecology |
| Environmental Policy | Environmental Conflict Resolution |
| Environmental Chemistry | Community Ecology |
| General & Organic Chemistry | Evolutionary Biology |

# Current Research

## Senior research | department of Environmental studies, saint michael’s college | fall 2018

* Supervisor: Laura Stroup, Ph.D.

Thesis: Explored the deeply-rooted connection between historical attitudes towards wilderness and how they manifest into current perceptions and behavior towards nature. Two countries, United States and Japan, with strikingly opposite views of the wild were analyzed. These relationships were then examined to see how these original attitudes translated to current appreciation and value of nature.

Group Research Project: TBD

## National science foundation funded reseaRch | rubenstein school for environment & natural resources, university of vermont | Summer 2019 - Present

* Supervisor: Rachelle Gould, Ph.D.
* Employed by the National Science Foundation Research Experience for Undergraduates program to conduct a supervised independent study. Research focused on the impacts of message framing on perception of and behavior towards algal blooms in Lake Champlain. Presented research twice to middle school and secondary education teachers with the hopes of incorporating research into their curriculums. Final manuscript is currently in progress and anticipated to be submitted for publication.

# Fieldwork Experience

## Coral reef Ecology and conservation | Havana & Bay of Pigs, cuba | Winter break 2019

* Supervisor: Mark Lubkowitz, Ph.D.
* Field research on coral reefs in Cuba, including analysis of coral diversity as well as health and impact of human activity at various reefs. Working with scientists from the University of Havana. Research conducted contributes to decades- long ongoing study on the status of coral reefs in Cuba. Involved coral identification and quadrat analysis.

## EFFECTS OF HUMAN ACTIVITY ON MAMMAL DIVERSITY | COLCHESTER, VERMONT | FALL 2018

* Supervisor: Declan McCabe, Ph.D.
* Constructed and placed mammal footprint traps in the Saint Michael’s College permaculture garden and the solar panel field. Mammal footprints were organized, identified, and sorted based on location.

## bIOMONITORING IN freshwater STREAMS AND APPLICATION OF BIOLOGICAL INDICES TO DETERMINE BIOTIC INTEGRITY OF FRESHWATER ECOSYSTEMS | VERMONT STREAMS | FALL 2018

* Supervisor: Declan McCabe, Ph.D.
* Collected and identified macroinvertebrate species from two urban and two forested streams via kick sampling technique. Analyzed species richness, EPT richness, and proportion dominance.

## sPECIES-AREA RELATIONSHIP OF MACROINVERTEBRATE COMMUNITIES & ANALYSIS OF DOMINANCE OF ZEBRA MUSSELS | BURLINGTON, VERMONT | FALL 2018

* Supervisor: Declan McCabe, Ph.D.
* Collected, identified, and quantified macroinvertebrate species in Lake Champlain. Analyzed species richness, total abundance of individuals, and evenness.

## cOMPARISON OF SANDPLAIN FOREST TREE SPECIES IMPORTANCE VALUES IN VARIOUS CONTROLLED BURN AREAS | CAMP JOHNSON, COLCHESTER, VERMONT | FALL 2017

* Supervisor: Scott Lewins, M.S.
* Installed quadrats and identified tree species in hot, cool, and unburned areas of the forest. Analyzed relative frequency, relative density, and relative dominance and then compared this data with prior year’s data collection.

# Skills & Abilities

## laboratory skills

|  |  |
| --- | --- |
| NMR and IR Spectroscopy | UV/VIS Spectroscopy |
| Micropipetting | Dissecting Microscope |
| High-Speed Centrifuges  Titrations | Analytical Balance |

## Field skills

|  |  |
| --- | --- |
| Tree Identification | Pitfall Trap Setup and Retrieval |
| Macroinvertebrate Identification | Macroinvertebrate Stream Sampling |
| Bioassessment Techniques | Water Turbidity Testing |

## computer skills

|  |  |
| --- | --- |
| Proficient in Microsoft Office | Primary Literature Review |
| Familiarity with SPSS and R |  |

## Essential skills

|  |  |
| --- | --- |
| Strong Communication & Collaboration | Self-Motivated & Determined |
| Organized & Timely | Adaptable & Reliable |

# Relevant Employment

## Teaching assistant in chemistry department | saint michael’s college | fall 2018 - Present

* Supervisor: Jennifer Paone-Vogt, M.A.
* Prepare for and organize labs for General Chemistry I & II. Assist and guide students in proper completion of laboratory procedures, assignments, as well as clean-up. In addition, provide general forms of assistance to the lab professor including grading. Specific analytical skills: teaching students dilution and pipetting skills; making solutions and standard curves; assist in titrations, synthesis and recrystallization; Microsoft Excel.

## Academic tutor | bolton & Stow, massachusetts | September 2016 –Present (Summers)

* Tutored teenagers from the ages from 13 to 17, some with learning disabilities, weekly in subjects from Science, Mathematics, History, and English. Assisted students in remaining organized and up to date on current projects and various assignments. Work with some students occasionally in the summer preparing for college applications and SAT/ACT preparation.

# Collegiate Activities

## Women’s Rugby football club | saint michael’s college | fall 2017 - Present