

# Tyler J. Sheldon

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## EDUCATION

**Middlebury College** | Middlebury, VT 2018  
Bachelor of Arts in Computer Science, *summa cum laude*

**Universidad Austral de Chile** | Valdivia, Chile 2017  
Semester abroad program with coursework in Latin American history, Spanish language, CS

## PROFESSIONAL INTERESTS

Software Engineering, Wildlife Ecology and Conservation, Geographic Information Systems, Science Communication, Sustainable Design

## PROFESSIONAL EXPERIENCE

**Wildlife Field Technician** | Saint Maries, ID 2021  
*Idaho Department of Fish and Game/University of Idaho*

- Monitored moose cows and calves using ground VHF telemetry techniques
- Conducted field necropsies, often carrying out over 50 lbs of organ samples across rough terrain
- Performed regular GIS analysis of moose movement patterns

**Web Development Consultant, part-time** | West Hartford, CT 2020 - 2021  
*Westfield Academy of Debate and U.N.*

- Designed and implemented an [interactive webmap](#) to showcase Westfield's global community
- Designed layout and wrote copy for current Westfield website

**Teacher: IB Computer Science, Algebra; Inclusion Specialist** | Hyannis, MA 2018 - 2020  
*Sturgis Charter Public School*

- Designed and taught original curriculum for IB Computer Science
- Created a suite of ecological game simulations to teach computer modeling

**Volunteer Bander** | Brewster, MA 2019 - 2020  
*Wing Island Bird Banding Station*

- Patrolled 800ft of mist-netting in a coastal wetland setting, assisted in recording data

## COURSEWORK

### Computer Science [Major]

*Theoretical and applied computer science with an emphasis on spatial analysis*

- Collaborated with Middlebury animators to design a tool for [animating fractured 3D meshes](#)

### Ecology

*Coursework focus on fieldwork and conservation*

- Fieldwork techniques including mist-netting, small mammal trapping (Sherman traps), electrofishing

### GIS & Cartography

*Human geography with an emphasis on map design*

- Modeled and mapped [microterrain](#) of New England woodlands using photogrammetry software
- Researched and designed [historical maps](#) of OMDP National Monument

### Physics, Spanish Language

## COLLEGE WORK EXPERIENCE

### Middlebury College Climbing Wall

2016 - 2018

*Wall Monitor*

### Middlebury Outdoor Programs

2015 - 2018

*Outdoor Orientation Leader: backpacking, rock climbing, canoeing*

- Hiked, climbed, paddled through the Green and Adirondack Mountains
- Led groups of 8-10 first-years, planning itineraries and meals

## COMPUTER SKILLS

Programming Languages: Python (advanced), Javascript/CSS/HTML (intermediate), Java (basic), C (some exposure); programming tools: d3 (advanced)

Software: ArcGIS (intermediate), QGIS (intermediate), Adobe Photoshop & Illustrator (advanced), Blender (intermediate)

## FIELD SKILLS

- Ground VHF telemetry
- Ungulate necropsies, sterile sampling procedures
- Camera trap setup and data collection
- Fawn capture and collaring, *Odocoileus virginianus* and *O. hemionus*

- Safe snare trap design and repair, *Ursus americanus*
- Mist-netting, avian identification
- Wilderness First Responder certified, 2014 - 2020

## LANGUAGE SKILLS

Highly proficient in written and conversational Spanish