**Madeline Nybl­a­de**

**Python** (Intermediate)**; Photoshop** (Advanced)**; GPS Use** (Advanced); **Excel (Advanced); ArcGIS** (Intermediate); **Outdoor Emergency Care Technician** (National Ski Patrol Medical Certification); **Telemark Skiing** (Expert)**; Backpacking** (Expert); **Bike Touring** (Expert)

Skills

**PSU Applied Math Research Experience**

(Summer 2016, Summer – Present)

* Built a coupled hydrologic, economic, and agricultural model for the agricultural-hydrologic system in Punjab, India with Dr. Zikatanov and Dr. Russo
* Wrote successful summer research proposal for the Erickson Discovery Grant (Summer 2017)
* Modeled subsurface geology based on seismic and drill core data
* Configured large datasets using Python

**President of** [**Eco Action**](http://sites.psu.edu/ecoaction/)**, Penn State**

(Summer 2017 – Present)

* Lead regular meetings, organize events, work with members of the community to lead meaningful action

**Ski Patrol and Young Adult Patrol Advisor**

(Winter 2011 – Present)

* Preform emergency medical care and transport off the mountain for patients
* Support and train young adult patrollers

**Youth Development Professional**

(Summer 2014, 2015)

* Led 2-3 week programs for 7-13 year-olds
* Guided 1-3 day backpacking and canoeing trips
* Facilitated team-building and debriefing exercises

**Outdoor Leadership Experience**

(2014 – Present)

* Organize and lead weekend backpacking trips for college students through the Penn State Outing Club
* **Student Poster Awards** for best student poster and abstract at the MODFLOW and More conference (2017), for 3rd best poster in the Physical Sciences (2017) and for best poster for course-based research (2016) at the PSU undergraduate student poster competition
* **PEO Star Scholarship** for excellence in leadership, academics, and community service (2014)
* **Bruce E. Knox Award** for outstanding community service presented by the Youth Service Bureau of Centre County, PA (2013)
* **Hans Hyson Award** for outstanding leadership as a young adult patroller (2013)

**Penn State Geoscience Field Camp**

(Summer 2017)

* Studied stratigraphy, geomorphology, structural geology, and thermal modeling in a 6-week field program in Utah, Montana, Wyoming, and Idaho

**Himalayan Ecological Studies, Bhutan**

(Fall 2015)

* Studied political, landscape, and mountain ecology as part of the semester-long School for Field Studies Bhutan program
* Conducted camera-trapping study to assess mammal diversity and model occupancy in a research forest preserve
* Presented research to Bhutanese government officials

**BS in Geoscience, Penn State**

**University Park Campus**

(Fall 2014 – Present)

* Current Senior, achieving GPA of 3.95/4
* Minoring in International Agriculture
* Studied Calculus, Differential Equations, Chemistry, Physics, Biology, Earth Materials, Earth History, Geophysics, Geochemistry, Structural Geology, Landscape Ecology, Science Writing, Soils, Economics, Biogeography, Flower Arranging, and Fly Fishing
* Studied the potato famine in Ireland (May 2016), biology of eco-health in Tanzania (May 2015), and international agriculture in Belize (November 2014)

Awards

Penn State Schreyer Honors Student, Class of 2018

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Education

Work Experience