**Anika Tullos**

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**Education**

**Tilton School**, Tilton, NH **2015-2019**

High School

**Hamilton College**, Clinton, NY **2019-2023**

Major: Geoscience; Minors: Mathematics & Russian

GPA: 4.01

**University of Oregon,** Eugene, OR **2023-Present**

MS Student in Earth Sciences

**Relevant Coursework**

**Geosciences:** Environmental Geology, Sedimentology & Stratigraphy, Mineralogy, Hydrogeology, Structural Geology, Paleontology, GIS for Geoscientists, Senior Seminar in Geosciences, Advanced Hydrogeology, Drones & Phones

**Supporting Math/Science:** Calculus II, Linear Algebra, Differential Equations, Multivariable Calculus, Calculus-Based Physics, Principles of Chemistry, Computer Science for All, Organic Chemistry I, Statistical Analysis of Data

**Skills**

Experienced with Bico-Brain Chipmunk Rock Crusher, Fisher Isotemp Muffle Furnace, Rocklabs Rock Pulverizer, Buehler Lapidary Polishing Table

Proficient in Adobe Premiere Pro, Photoshop, Illustrator, & InDesign; ArcGIS Desktop and Pro; basic Python; Wordpress; MS Word & Excel; conversational Spanish & Russian language

**Field and Research Experience**

**A Petrological Study of Hofsjökull Volcano, Central Iceland 08/22 – 05/23**

**Hamilton College Thesis in Geosciences**

Worked with Professor David Bailey and the Hamilton College Analytical Laboratory in collaboration with Dr. Sæmundur Ari Halldórsson (University of Iceland)

* Prepared thin-sections and WD-XRF beads from 25 basalt samples from Hofsjökull to determine major and trace element geochemistry
* Write a full project report to be submitted and presented in April 2023

**Volcanology Field Camp in Hawaii 12/27/22-01/12/23**

**South Dakota School of Mines**

Visited the Kilauea volcanic complex to learn field techniques in geologic mapping of basaltic lava flows and quantitative assessment of geodetic data.

**University of Iceland 04/25/22-05/27/22**

**GIS Technician**

Worked with Dr. Sæmundur Ari Halldórsson for a month as an independent study project for the SIT Iceland study abroad program.

* Create geologic maps of Ethiopia and Uganda for an isotope geochemistry project centered around the East African Rift System to be published in 2023
* Wrote a 25-page research paper that was presented at the University of Iceland

**Hamilton College Summer Research 05/24/21-06/04/21**

* Worked with hydrogeology professor for two weeks to determine phosphate concentration in local water samples
* Prepared and analyzed water samples by converting all phosphate to orthophosphate by sulfuric acid hydrolysis and persulfate digestion using a variation of EPA Method 365.3
* Compared results to streamline the process for future research and identify common sources of error
* Created a research poster that was presented in Fall 2021

**Field Studies in Desert SW 01/02/20-01/14/20**

Visited Arizona with the purpose of being introduced in geology field work.

* Carried out observations and analysis in diverse geologic environments
* Learned proper conduct for field work
* Wrote nightly summaries connecting the day’s work to Arizona’s overall geologic history
* Completed a final presentation discussing the role of volcanism through Arizona’s history

**Work Experience**

**Hamilton Analytical Laboratory,** Clinton, NY **05/23 – 06/23**

**XRF Lab Assistant**

* Prepare XRF beads from whole rock samples to prepare them for WD-XRF analysis under contract with the USGS Volcanic Hazards team to provide data necessary for accurate risk measurements
* Use scientific equipment including rock crusher, alumina and tungsten carbide bowl and rock pulverizer, diamond-embedded lapidary grinding wheel, rock saw, precision balance, and muffle furnace

**National Grid,** Worcester, MA **06/13/22-08/12/22**

**Sustainability Ambassador**

* Handle outreach to the local community and educate about energy efficiency incentive programs
* Give tours of the Worcester National Grid Sustainability Hub

**J&J Seafood,** Lakeville, MA

**Cashier 06/11/21-08/20/21**

* Handle cash operations and take orders from customers
* Wrap takeout orders, serve and clean tables, wash dishes, and prepare beverages

**Hamilton College,** Clinton, NY

**Digital Media Intern 08/25/21-Present**

* Train incoming DMTs over 2 weeks/semester, clean and inspect returned rental equipment each shift, and schedule and assist patrons in using large-format and 3D printers to create efficient patron experience
* Provide hardware and software support to the Hamilton College community, assist with creation of multimedia projects, clean and maintain library and digital arts lab over 15 hrs/week
* Serve as a liaison between fellow student employees and professional staff

**Senior Digital Media Tutor 10/12/20-08/25/21**

* Mentor and train incoming digital media tutors
* Assist interns with rental equipment check-in
* Assist patrons in using large-format printers and 3D printers

**Digital Media Tutor 01/21/20-10/12/20**

* Provide hardware and software support services to the Hamilton Community
* Assist with creation and delivery of multimedia projects
* Complete a self-paced training level each semester to gain knowledge to better support users
* Organize and maintain equipment or supplies used in the public areas, i.e.: paper, toner, etc.
* Cleaning and maintaining Hamilton College library and digital arts lab

**Buttonwood Park Zoological Society**, New Bedford, MA

**Zookeeping Intern in Domestics 06/05/19-07/14/19 and 06/02/20-08/07/20**

* Prepared daily animal diets & habitats, assisted in medical procedures at AZA-accredited zoo
* Engaged with guests daily by answering questions and educating on the zoo’s rare heritage breeds
* Completed a research paper detailing the evolutionary history of swine, bovines, and equines

**Tilton School,** Tilton, NH

**Dorm Proctor 2018-2019**

Lived in a junior girls dorm, serving as a resource and authority figure for the students.

* Managed chores carried out by students in the dorm
* Coordinated dorm activities
* Was on duty twice a week during which I monitored students and enforced curfew

**Cranwood Italian Home for Children**, Freetown, MA

**Visiting Tutor 2015-2019**

Worked on and off as a visiting tutor at a local group home.

* Tutored children in reading, science, Spanish, and mathematics
* Played educational games with the children
* Attended events with children who would have otherwise been alone

**Certifications**

**Part 107 Remote Pilot Certification 05/23**

Federal Aviation Administration

**Adult First Aid | CPR AED 9/20/23**

American Safety & Health Institute

**Awards & Honors**

**MacMorran Scholar** (2016-2019) Recognizes students at Tilton who achieve the highest levels for academics and effort as well as excellence in community commitment and responsibility.

**The Hosea B. Burnham Prize for Integrated Mathematics** (May 2016)

**The Donald Robert Dowling Prize** (May 2016) Awarded to the student who leads the Freshman Class in scholarship for the year.

**The Gateway Award in Product** (May 2017) Given to recognize the outstanding achievement of students in the Sophomore Gateway Project. *(Antarctica: The Forgotten Continent - Documentary)*

**The Fine Arts Prize in Film** (May 2018)

**English Prize for Critical Insight & Creative Expression** (May 2018)

**The John W. Coons Prize** (May 2018) For excellence in American history and critical thinking skills.

**Hazel S. Kaufman Dramatics Prize** (May 2019) Awarded to a graduating senior who has made sacrifices for the continued benefit of the drama program.

**Dr. Denis Wang Science Department Prize** (May 2019) Awarded to the student whose level of achievement and deep understanding of advanced science exceeds that of all other students in the school.

**Hamilton College Dean’s List** (2020)

**Hamilton College Phi Beta Kappa Book Prize** (2020) Awarded to the 10 students who have the highest grade point averages at the conclusion of their first year of study.

**The Payne Hills Prize** (2021) Awarded annually to a member of the junior class excelling in geosciences field work.

**The L. David Hawley Prize Scholarship in Geology** (2022) Awarded to an outstanding junior who intends to go on to a career in geology. Consideration is given to promise as a scientist, breadth of background in sciences, and general academic standing.