

Elise Hachfeld eshachfeld@icloud.com | (952) 388-7605 | Apple Valley, MN

EDUCATION

St. Olaf College

Bachelor of Arts

Major: Bioinformatics, Concentration in Statistics & Data Science

Relevant Coursework: Statistics, Data Science, Genetics, Math of Biology, Biostatistics, Machine Learning

May 2026

Northfield, MN

SKILLS

Programming: Python (TensorFlow, OpenCV, scikit-image, scikit-learn), R, SQL, Java, Visual Studio

Bioinformatics: SAMtools, GATK, bcftools, VEP, genomic data processing, variant interpretation

Cybersecurity: Threat hunting, vulnerability management, Tenable Nessus, Splunk, Linux

Other: Regex, Markdown, LaTeX, web development, Adobe Photoshop, Excel

RESEARCH EXPERIENCE

Exploratory Whole Genome Analysis in Familial Hemiplegic Migraine

Northfield, MN

Senior Capstone Project

May 2026

- Executed a bioinformatics pipeline using GATK, SAMtools, and Picard for quality control and variant calling.
- Filtered and annotated variants using VEP and bcftools to identify candidate variants in migraine-associated genes.
- Interpreted genetic variants by integrating literature review with computational findings.

Quantification of Lipid Droplets in *Tetrahymena Thermophila*: An Image Processing Based Approach

Galesburg, IL

Midwest Protozoology Conference

Apr 2024

- Developed a user-friendly graphical interface for processing microscope images.
- Created a fast and effective image processing pipeline to count lipid droplets in *Tetrahymena* cells.

The Impact of Mental Health Stigma on Outcomes in Pheochromocytoma

Nashville, TN

4th Place Award | HOSA International Leadership Conference

Jun 2022

- Collected responses from 30+ pheochromocytoma and paraganglioma patients by outreach on social media.
- Analyzed data using SPSS, RStudio, and Excel Spreadsheets, displayed findings in simple graphs and charts.

WORK EXPERIENCE

St. Olaf College

Northfield, MN

Student Security Analyst

Oct 2025 – Present

- Triaged monthly vulnerability scan results in Tenable Nessus, validated findings, and helped identify actionable remediation priorities for campus systems.
- Investigated network data in Splunk in order to identify potential threat actors.

St. Olaf College

Remote

Research Assistant - St Olaf College

Sep 2024 – May 2025

Research Assistant - University of Montana

March 2024 – May 2024

- Identified and logged Wisconsin fauna from camera trap images.
- Flagged discrepancies between image sets.

Buntrock Commons

Northfield, MN

Building Manager

Sep 2024 - May 2025

Building Assistant

Dec 2022 – May 2024

- Answered student and visitor questions at the front desk, provided directions and checked out resources.
- Maintained a Google Sheet for the lost and found item inventory and returned lost items to owners.

Ebenezer Ridges Care Center

Burnsville, MN

Certified Nursing Assistant

Jul 2022 – Jan 2023

- Assisted long term and transitional care patients with performing daily activities.
- Documented the care provided and reported any concerns to a nurse.