

# Jennifer Ely

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## EDUCATION

**Northern Arizona University**, Department of Biological Sciences and Honors College  
Flagstaff, AZ Aug. 2017 - May 2021

- B.S. in Microbiology and minor in Chemistry, *magna cum laude*
- Recipient of the Gold Axe Award 2021
- Recipient of the President's Prize 2021

**University of Sheffield**  
Sheffield, England Sep. 2019 – Dec. 2019

- Study Abroad / International Exchange Program

## CURRENT POSITION

**Research Associate I** – Altin Laboratory; Translational Genomics Research Institute May 2021 – present

- Use serological assays, including InBios and GenScript ELISA detection kits, to analyze the serum of dogs and cats from households having at least one confirmed positive SARS-CoV-2 individual to investigate the transmission of the virus between owners and their pets.
- Investigate the relationship between T cell antigen-specificity and T cell phenotype to determine a protective immune response against *Mycobacterium tuberculosis* using 10X Genomics Chromium platform.

## EXPERIENCE

**Intern** – Altin Laboratory; Translational Genomics Research Institute Jan. 2020 – April 2021

- Analyzed plasma/serum from convalescent COVID-19 patients to test for the presence of SARS-CoV-2 antibodies using various serological assays, including InBios and GenScript ELISA detection kits, as possible therapeutic tools.

**Helios Scholar** – Altin Laboratory; Translational Genomics Research Institute June 2019 – Aug. 2019

- Participated in an eight-week summer internship program focused on biomedical research in Flagstaff, AZ.
- Attended video-conference seminars that focused on improving professional skills, practicing scientific writing, organizing scientific posters and learning about various bioscience careers.
- Presented research performed over the eight-week internship at a formal symposium for fellow interns and scientists at the conclusion of the program.

**Teaching Assistant** – Biology Department; Northern Arizona University Aug. 2018 – May 2019

- Assisted professor with demonstrations and time keeping for each class period.
- Graded all assignments / assessments and recorded in the gradebook.
- Answered emails from students regarding questions about their grades or coursework.

**Genetic Counselor Shadow** – University of Arizona Cancer Center; Tucson, AZ Aug. 2017; Jan. 2019

- Observed pre-test counseling appointments where the genetic counselor and patients went through a risk assessment using pedigree analysis and discussing the benefits and limitations of genetic testing.
- Learned the administrative work that follows the pre-test counseling appointments, including writing clinical notes and making follow-up phone calls with patients about test results.

## **POSTER PRESENTATIONS**

- Jennifer Ely, Jung Hwa Kirschman, Erin Kelley, Anna Boyle, Joel Ernst, John Altin. *A Novel Approach to Deep Profiling the T Cell Response to Tuberculosis*. Presented at the Helios Scholar Research Symposium; Phoenix, AZ; August 2019.
- Jennifer Ely, Kendall Chapman, Cassie Safranske. *Reimagining Cancer: Current Research Suggests Targeting Cancer Stem Cells Could Be the Cure*. Presented at the Northern Arizona University's Undergraduate Research Symposium; Flagstaff, AZ; April 2019.

## **ORAL PRESENTATIONS**

- Jennifer Ely, Jung Hwa Kirschman, Erin Kelley, Anna Boyle, Joel Ernst, John Altin. *A Novel Approach to Deep Profiling the T Cell Response to Tuberculosis*. Presented at the Southwest One Health Symposium; Flagstaff, AZ; August 2019.

## **REFERENCES**

- Available upon request