

# EMILY C. REED

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## EDUCATION

**BS from The University of Texas, Biology/Genetics** August 2017 to Current  
with a certificate in forensic sciences

- Fourth Year
- Current GPA: 3.8989
- Graduating in December 2020

## RESEARCH EXPERIENCE

**The University of Texas at Austin,** May 2019 to Current  
Undergraduate Research Assistant, Hofmann Lab

- Performed a series of elutions on fish hormones.
- Created a protocol for determining coloration in male African Cichlids.

**COOL Week Internship,** ViaGen, Austin, TX. February 2017  
Advisor: Blake Russell

- Explored the field of genetics and cloning animals.
- Hands-on experience in the lab and in the business realm.

**Undergraduate Research Forum** April 2020

- Submitted data I collected from the Hofmann Lab and received high marks from five judges

## ACADEMIC AWARDS AND SCHOLARSHIPS

**Honors Award** April 2020

- Received Honors Award for the College of Natural Sciences based on academic status

**University- Wide Endowed Presidential Scholarship** May 2020

- Received the Eva Stevenson Endowed Presidential Scholarship for \$2,500 based on academic status

**Harvard Medical School Internship- Sinclair Lab** June - August 2020

- Accepted for a summer long internship in the Sinclair lab as a research assistant

**Biological Sciences Student Research Scholarship**

August 2020

- Received the Patricia L. Johnston Biological Science Student Research Scholarship for \$2,245 based on academic status

**EXTRACURRICULARS****Texas Adventure Time**, The University of Texas,  
Hiking and Outdoor Club,

April 2019 to Current

**Position Held: Founder and Current President**

- Organized and led group hikes throughout the semester.
- Communication skills with members, faculty, and businesses via email and leading meetings.
- Designed a club logo using Fiji.
- Co-founded a business bank account, as well as co-manager of club funds.
- Organized and Participated in Trashtag day, a hike where members cleaned up the Barton Creek Greenbelt.

**Longhorn Pre-Pharmacy Association**,  
The University of Texas, Potential pharmacy student organization,

August 2017- May 2018

**Position Held: Member**

- Attended meetings and participated in community service.

**RELEVANT COURSES TAKEN**

- Introductory Biology I & II
- Introductory Chemistry I & II
- Genetics
- Organic Chemistry I & II
- Biology Laboratory
- Chemistry Laboratory
- Biostatistics
- Developmental Biology
- Biochemistry
- Microbiology
- Molecular Biology
- Molecular Biology of Animal Viruses
- Evolution
- Human Genetics
- Genetics Laboratory
- Animal Behavior
- Microbial Genetics
- Biological Anthropology
- Criminology
- Computational Biology
- Human Biology
- Molecular Biology Lab

## SKILLS

- Focused, diligent worker in both individual and group settings.
- Eager to learn new things and correct past mistakes.
- Organized, proactive, and excellent at time management.
- Experience in a lab setting using both chemical and biological techniques and materials.
- Basic knowledge of Excel, ImageJ, along with coding in R and Python.
- Ability to lead peers in assignments, as well as organizing group events.

## INTERESTS

- Exploring other organisms and antibodies for possible foundations for new drug development.
- Drug development and discovering responsible genes for heritable diseases, such as Alzheimer's disease.
- Epigenetics and its possible role in aging and aging related diseases.
- Viruses as vectors in medicine, as well as the study of viruses and creation of vaccinations.
- CAR-T therapy and its possible uses.

## REFERENCES

**Available upon request**