

Samuel R. Hirst

63 E Center St.

Provo, UT 84606

+1 801-696-7796 samhirst130@gmail.com

EDUCATION

Brigham Young University, Provo, UT

Graduation Date:

April 2021

Bachelor of Science: Genetics, Genomics & Biotechnology

Minors: Business, Music

Certificate in Spanish Language Proficiency

RESEARCH EXPERIENCE

Research Assistant

Mar. 2020 – May 2021

Undergraduate research assistant under Dr. Paul Frandsen, Department of Plant and Wildlife Sciences, Brigham Young University, Provo Utah

- Utilization of eDNA metabarcoding to assess the effects of wildfires and large-scale ecological disturbance on aquatic biodiversity
- Genome assembly and annotation

PROFESSIONAL EXPERIENCE

Research Consultant

Sep. 2019 – May 2020

Researcher for the BYU Biotechnology Consulting Lab under Dr. Marc Hansen, Department of Physiology and Developmental Biology, Brigham Young University, Provo, Utah

- Work with national and international biotechnology companies in areas of product development, market research, mergers and acquisition, and financial analysis

TEACHING EXPERIENCE

Teaching Assistant

Jun. 2018 – May 2021

- “Introduction to Jazz” taught by Dr. Steve Lindeman, Brigham Young University, Provo, Utah

AWARDS/GRANTS

- University of South Florida University Graduate Fellowship, Fall 2021- Spring 2022, \$8,666.67
- BYU Life Sciences College Undergraduate Research Award: Investigating the Genomic Structure of Venom Ontogeny in the Red Diamond Rattlesnake (*Crotalus ruber*), Jan. 2021, \$1,500
- Brigham Young University Academic Scholarship, Spring 2018 - Winter 2021, \$14,100
- BYU Department of Plant and Wildlife Sciences International Agriculture Scholarship, Winter 2021, \$1,498
- BYU College of Life Sciences Sam and Aline Skaggs Scholarship, Fall 2020, \$1,498

POSTERS/PRESENTATIONS

- S. Hirst, E. Tolman, P.B. Frandsen (2020). *Comparing the effectiveness of eDNA sampling of water to bulk sample ethanol supernatant for the assessment of freshwater macroinvertebrate communities*. Entomological Society of America Virtual Annual Meeting. 11 November 2020

PROFESSIONAL MEMBERSHIPS

- Entomological Society of America

PROGRAMMING EXPERIENCE

- Python
- R
- Shell Script

OTHER

- Fluent in Spanish reading, writing, and conversation
- Eagle Scout