

Kaleb Ducharme

STUDENT

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Research Interests

I have been in a biological sciences based major, but through lab experiences I have gained knowledge in some data science techniques. I plan to advance my knowledge further through research in bioinformatics, geonomics, and similar areas.

Education

University of New Hampshire

Durham, New Hampshire

BACHELOR OF SCIENCE, NEUROSCIENCE AND BEHAVIOR - CURRENT GPA: 3.97

Expected May 2023

- Relevant Coursework: Biostatistics 1, General Chemistry, Organic Chemistry, Biochemistry, Principles of Genetics, Human Genetics, Intro to Computer Science (Python and Java), Data Science for Life Sciences (in progress), Endocrinology (in progress)

Awards

Presidential Scholarship

2019-2022

UNIVERSITY OF NEW HAMPSHIRE

\$5,000/year

Research Experience

AFFECT, COGNITION, & COMPUTATION LAB

Research Assistant for Credit Spring Semester 2022

Advisor: Dr. Caitlyn Mills

Ran participants through virtual reality experiments to assess various paradigms of mind wandering. Cleaned the raw data output of the eye-tracking hardware and survey software using Python and R. Analyzed the cleaned data using R and presented initial results.

VISUAL PERCEPTION LAB

Volunteer Research Assistant Fall Semester 2022 - Present

Advisor: Dr. Omer Daglar Tanrikulu

Currently in the early stages of designing ensemble perception experiments in a virtual reality setting. Advancing knowledge in Python and learning to use the Vizard software (Python based VR development tool) to create the VR experiment.

Presentations

Bauer, W., **Ducharme, K.**, Hall, A., Priest, J., Wittemann, A., Wong, A., Smith, S., & Caitlyn, M. (2022, April). *Freely moving thought's relationship with testing ability*. Poster presented at undergraduate research conference, university of new hampshire.

Technical Skills

COMPUTATIONAL

Intermediate Knowledge in Python and Java, R, Microsoft Suite

WET LAB

Spectrophotometry, Recombinant protein expression in *E. coli*, Benchling for virtual plasmid digestions, Purification of target protein using AKTA start chromatography system (Affinity, gel filtration), SDS-Page, Analysis of active sites of proteins in Chimera