

Rachel Brown

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EDUCATION

University of Vermont, Burlington, VT

College of Arts and Sciences, Honors College

Neuroscience (BS), Pure Mathematics (BA)

May 2022

GPA: 3.97/4.00

Phi Beta Kappa, Presidential Scholarship, Dean's List: '18, '19, '20, '21
Study Abroad: University of Glasgow Principia Consortium (Spring 2020)

RELEVANT COURSEWORK

Bioinformatics and Data Analysis, Molecular and Cellular Biology, Diseases of the Nervous System, Advanced Neurobiology, Numerical Analysis, Research Methods, Biostatistics, Neuroanatomy, Pharmacology

RESEARCH EXPERIENCE

Massachusetts Institute of Technology (MIT), Cambridge MA

MSRP Bio Research Assistant for Dr. James Cavello (40hrs/wk)

May-Aug 2021

- Evaluated decoding models of macaque neural population responses in an object recognition task
- Utilized MATLAB and computing clusters to train and test linkage models
- Presented work in lab meetings and at the CBMM/BCS MSRP poster session

University of Vermont, Burlington, VT

Student Research Assistant for Dr. Alendra Albright (9hrs/wk)

Feb 2021-Present

- Writing an honors thesis with the Adolescent Brain Cognitive Development (ABCD) study
- Investigating the impact of physical activity and nutrition on neurocognition in adolescents

Student Research Assistant for Dr. Mark Lawrence (9hrs/wk)

Aug-Dec 2020

- Managed and trained a rodent colony in a spatial navigation experiment with early life seizure rat models
- Analyzed shaping procedures and vector analyses of animal navigation via MATLAB

Haifa University, Haifa, Israel

Research Intern for Dr. Nicole Doherty (40 hrs/wk)

Jun-Aug 2019

- Developed independent research project investigating sex differences in Lyme Disease
- Updated datasets and disease descriptions with current data from the CDC
- Contributed to a meta-analysis of sex differences of autoimmune and infectious diseases

WORK EXPERIENCE

Sodexo, Burlington, VT

Artist

March 2018-Present

- Created large scale chalk illustrations in dining locations on campus
- Collaborated with marketing staff to create custom designs on projects including calendars, cards, and posters

Murray's Tavern, Essex Junction, VT

Bartender

June 2021-November 2021

- Prepared drinks, provided positive customer experience, and managed cash register
- Operated, opened and closed the restaurant independently

International School of Boston (ISBOS), Cambridge, MA

Mathematics and Study Skills Tutor

Aug. 2020-May 2021

- Tutored students with alternative learning profiles one-on-one over zoom during the pandemic
- Provided support to develop executive functioning skills, organization, deadlines, and study skills
- Collaborated with teachers and advisors to tailor lesson plans to each student's learning goals

University of Vermont Center for Academic Success, Burlington, VT

Math, Chemistry, and Biology Subject Tutor

Aug. 2019-May 2020

- Reviewed course specific materials and skills for courses including Algebra, Calculus I and II, Biology, and Chemistry.

Anthropologie, Cambridge, MA

Retail Associate

April 2017-May 2019

- Served customers in a friendly yet professional manner to ensure a positive and timely customer experience
- Operated POS cash register and handled funds from customers

ACTIVITIES & LEADERSHIP

The Natural Philosopher, Burlington, VT

Editor and Marketing Director

Dec. 2018-Present

- Served in a leadership role for UVM's STEM publication that synthesizes primary scientific literature into accessible and engaging articles for all levels of education
- Collaborated with local elementary school, the integrated arts academy, to bring science experiments to younger communities
- Coordinated artists to create illustrations to accompany articles
- Generated social media content to advertise meetings, publications, and current events in STEM

University of Vermont, Burlington, VT

Jan. 2019 – June 2020

Peer Note Taker

- Advanced Neurobiology
- Diseases of the Nervous System

Headwaters Magazine, Burlington, VT

Illustrator and Writer

Jan. 2019-May 2020

- Wrote and illustrated articles for an environmentally focused magazine using InDesign and Illustrator to prepare pieces

Theatre

Glasgow Shakespeare Society at the University of Glasgow

- A Midsummer Night's Dream, 2020 (Titania)

Royal Tyler Theatre at the University of Vermont

- Presenting Mr. Kersands, 2019 (Karla)
- The Toys Take Over Christmas, 2018 (Teddy)

PRESENTATIONS, TALKS, WORKSHOPS

San Diego State University, San Diego, CA

Undergraduate Research Panel

10/13/2021

Massachusetts Institute of Technology, Cambridge, MA

MITx 7.QBWx Quantitative Biology Workshop

Jul-Aug 2021

SKILLS & INTERESTS

Skills: PyMol, French, Adobe Illustrator and InDesign
Career Interests: Science communication, metabolism and neurodegeneration
Personal Interests: Shakespeare, long distance trail running, painting, cooking