

# Hayden Hotchkiss

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## EDUCATION

**Bachelor of Arts in Psychology**, University of Puget Sound, Tacoma, WA, Graduation: May 2022

- GPA: **3.74/4.0**
- **Psi Chi International Psychology Honor Society**, awarded to psychology students with a 3.75 semester GPA or higher in psychology courses.
- **Psych Honors Award**, awarded to five graduating students exhibiting a high level of academic performance and engagement in various psychology disciplines.

## NEUROSCIENTIFIC COURSEWORK

- **Behavioral Neuroscience**, Fall Term 2019 - Course considering the basic structure and function of the nervous system, perception, sleep, emotion, learning and memory, language, and psychological disorders.
- **Sensation, Perception, and Action**, Fall Term 2021 - Lab-based course in perceptual neuroscience, brain pathways, psychophysical methodology, and neurophysiology of the senses.
- **Learning and Behavior**, Spring Term 2022 - Lab-based course with an emphasis on terms, theories, and methods associated with classical conditioning, operant conditioning, social/observational learning as well as environmental control of voluntary behavior, motivation, and rat cognition.

## RESEARCH EXPERIENCE

**Learning and Temperament Operant Conditioning Project**, January-May 2022

University of Puget Sound, Tacoma, WA

- Investigated how temperamental constructs of anxiety, social hierarchy, and novelty-seeking related to experimental discriminative learning performance in Long Evans rats.
- Evaluated literature related to neurobiological stress, anxiety, and reward pathways in rats and humans.
- Cared for rat subjects on a daily basis by overseeing operant chambers, setting up apparatuses, feeding, and cleaning housing within the lab for testing sessions. Completed IACUC approval prior to conducting study.
- Utilized behavioral coding and data analysis to assess discrimination learning results (linear regressions, Two-way ANOVA, t-tests).

**Senior Capstone Research Paper: MDMA-assisted Psychotherapy for Treatment-resistant PTSD**, Fall term 2021

University of Puget Sound, Tacoma, WA

- Literature review exploring the efficacy of MDMA-assisted psychotherapy clinical trials for PTSD
- Evaluated and synthesized peer reviewed research regarding treatment resistant PTSD, traditional pharmaceutical and therapeutic treatment methodologies, and their serotonergic mechanisms.
- Discussed the most recent results of the Multidisciplinary Association for Psychedelic Studies' MDMA Phase 2 clinical trials and their greater impact for the future of PTSD treatment and accessibility.

**Independent Research Experiments**, Spring & Fall 2020

University of Puget Sound, Tacoma, WA

- Conducted independent psychology studies through the University of Puget Sound Psychology Department. Studies focused on social anxiety behaviors of University of Puget Sound students during the COVID-19 Pandemic. Required Institutional Review Board approval prior to conduction.
- Analyzed data using SPSS programs and completed an APA-style research paper for both completed studies.

## LAB SKILLS & TECHNIQUES

**Biology and Human Physiology** - Pipetting, standard centrifuge operation, titration, filtration, weighing, sterilizing, cell counting, microscope care, cleaning equipment, dissection of sheep organs (heart, lungs, brain, and eye).

**Data Processing and Analysis** - IRB proposal and protocol, data coding, statistical tests (One and Two way ANOVA, t-test, small-n studies, linear regression), technical APA writing.

**Rodent maintenance** - Operant chamber running and maintenance, Soft CR operant chamber software, handling and restraining, weighing, feeding, IACUC proposal and protocol.

## CLINICAL EXPERIENCE

### **Mary Bridge Children's Hospital Volunteer**, May-July 2021 - Tacoma, WA

- Oversaw patients with various neurological disorders during appointments and discussed treatments with occupational therapists and clinical neurologists.
- Observed patient interactions with signs or diagnoses of global apraxia, epilepsy, dyspraxia, TBI, and others.

### **University of Washington Autism Center Apex Camp Intern**, Summer 2020 - Seattle, WA

- Included a 2-week intensive course curriculum of behavioral disorders, neurological disorders, behavioral therapy, and Summer Treatment Plan structure. Coursework was presented by professional clinicians, University faculty, and a world-renowned expert in pediatric ASD.
- Position required using ABA therapy techniques within a 4-week Summer Treatment Program for 12 campers diagnosed with an autism spectrum disorder (ASD), ADHD, and related disorders.
- Collaborated with professional psychologists, OTs, and behavioral technicians to develop individual treatment plans for each camper based on their neurological disorder and our daily observations during camp activities.

## OTHER EXPERIENCE

### **Camp Ogichi Daa Kwe Counselor**, 2017-Present, Camp Ogichi Daa Kwe, International Falls, MN

- Work with girls ages 7-17 to develop leadership, independence, and strength through 2-week-long canoe trips and in-camp activities such as rock climbing, paddleboarding, songwriting, and arts and crafts.

### **Center for Writing and Learning Tutor**, August 2020-2022, University of Puget Sound, Tacoma, WA

- Worked one-on-one with students in tutoring appointments to strengthen writing skills in various disciplines, critical thinking, collaboration, time management, and good study habits.
- Served as liaison for multiple psychology courses including Learning and Behavior, Introduction to Psychology, Behavioral Neuroscience, and Psychological Disorders.
- Helped students develop a thesis and refine their research papers on clinical, social, cultural, and neuroscientific psychology.

### **Whitewater Rafting Guide**, 2022-Present, Whitewater Rafting LLC, Glenwood Springs, CO

- Lead commercial rafting trips down the Shoshone Rapids and Colorado River.
- Practice whitewater safety protocol with customers and repair broken company boats when not guiding trips.

## LEADERSHIP & COMMUNITY INVOLVEMENT

- University of Puget Sound Women's Varsity Lacrosse, 2019-2022                      **Captain**, 2021-2022
- University of Puget Sound Women's Varsity Soccer, 2018-2020
- Coalition of Multiracial and Biracial Students, 2020-2022

## SKILLS

Communication • Leadership • Strategic Planning • Adaptability • Public speaking • Creative problem-solving • Self-discipline

Proficient in Word, Google, and SPSS programs.