

# TUCKER ELLIS

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## EDUCATION

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**Tufts University**, Medford, MA

**Bachelor of Science**, Major(s): Biopsychology, Environmental Science

**2022-2025** (Predicted)

**3.93 GPA**

*Awards:* Tufts University Dean's List

*Relevant courses:* Experimental Psychology (in progress), Biological Bases of Psychopathology (in progress), Emotion (in progress), Psychopathology, Comparative Vertebrate Physiology, Organismal and Population Biology, General Genetics, General Chemistry I and II, Introductory Physics.

**Bowdoin College**, Brunswick, ME

**Bachelor of Arts**, Major(s): Earth and Oceanographic Science and Environmental Studies

**2020-2021**

**3.94 GPA**

*Awards:* Sarah and James Bowdoin Scholar (Dean's List), CXD Funded Summer Internship Grant Recipient

*Relevant courses:* Introduction to Psychology, Biostatistics.

**Orono High School**, Orono, ME

**Class of 2020**

**4.00 GPA** (unweighted)

*Activities:* Varsity Cross-Country (team captain), Varsity Track and Field (team captain), Student-Staffed Writing Center tutor and director of social media operations, AP English Language Teacher's Assistant

*Awards:* National Honor Society, National French Honor Society, National French Exam bronze medalist, French IV Book Award, Penobscot Valley Conference Scholar-Athlete Award

## WORK EXPERIENCE

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**Tufts University Department of Psychology**, Medford, MA

*Spatial Cognition Laboratory Undergraduate Research Assistant*

**January 2024-present**

- Using basic, computer-generated physics tasks to study differences in task performance between participants who engage in static, animated, or embodied cognition

**Texas A&M University Department of Marine Biology**, Galveston, TX

*REU Participant and Undergraduate Research Assistant*

**May 2023-August 2023**

- Sampled zooplankton, ctenophore, and bivalve larval populations via research cruises in Galveston Bay
- Used identification manuals and genetic testing (Q-PCR) to differentiate between species of zooplankton, ctenophores, and bivalves
- Generated time series of ctenophores, bivalve larvae, and hydrographic factors to serve as ecological indicators of the ecosystem health of Galveston Bay
- Used laboratory experiments to quantitatively and qualitatively measure the stress responses of ctenophores to climate change
- Used RStudio to quantify the relationship between ctenophore population density and environmental conditions in Galveston Bay as a function of anthropogenic climate change

**University of Maine's School of Marine Sciences**, Orono, ME

*Undergraduate Research Assistant*

**January 2022-May 2022**

- Isolated the hepatopancreas and heart of *Carcinus meanas* (green crab) through dissection
- Performed homogenizations, RT-PCR (reverse transcriptase polymerase chain reaction) and agarose gel electrophoresis to assess the presence or absence of specialized immune response proteins in *Carcinus meanas* tissue
- Used ImmunoHistoChemistry (IHC) to measure the uptake of yeast and bovine serum albumin (an albumin protein) in zebra fish

## LEADERSHIP AND ACTIVITIES

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**Bowdoin Orient**, Brunswick, ME

**August 2020-December 2021**

*Staff Writer (2020-2021), Editorial Board Member (2020-2021), Head Sports Editor (2021)*

- Conducted weekly interviews with student-athletes, alumni, faculty, and administration
- Provided constant coverage of the development of Bowdoin's athletic teams following COVID-19
- Developed a weekly schedule to assign relevant articles to first-year sports writers
- Authored weekly articles discussing prevalent political and social issues as a member of the Editorial Board

**Church of Universal Fellowship**, Orono, ME

**September 2016-August 2020**

*Youth Group Senior Member*

- Organized and led a March for Our Lives anti-gun violence protest
- Developed an initiative to provide underrepresented groups with safe and inclusive access to local nature
- Collaborated with local food banks to increase their influence and raise awareness for food insecurity
- Organized and completed local conservation projects such as river clean-ups and trail maintenance

## SKILLS AND INTERESTS

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**Skills:** Proficient with Microsoft Office suite (Word, PowerPoint, Excel), has experience programming in R and RStudio, has experience developing and following laboratory research protocols, has vast knowledge of terrestrial ecology, marine biology, oceanography, and organic farming and conservation practices, has four years of experience working with children and teens of ages 6 to 15.

**Languages:** Fluent in English, proficient in French.

**Interests and hobbies:** Distance running, hiking, camping and backpacking, Nordic skiing, whitewater and flatwater paddling, swimming, ultimate frisbee, mental health, cognitive science, creative writing, gardening and plant care, sustainability practices, social justice activism, climate change research.