**Jane Lewiston**

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**Education**

**Northwestern University** **Evanston, IL**

*Bachelor of Science in* ***Biomedical Engineering****; Double Major in* ***Neuroscience***  *September 2021 – June 2025*

* Cumulative GPA: 3.61/4.00 | Major GPA: 3.66/4.00 | SAT: 1500/1600
* Relevant Courses: General Engineering, Circuitry, Multivariable Calculus, Fluid Mechanics, Design, Quantitative Physiology

**Work Experience**

**Turek/Vitaterna Labs Northwestern** **Evanston, IL**

*Research Assistant September 2022 – Current*

* Assisted in running circadian research studies on sleeping related disorders, Alzheimer’s, and Crohn’s Disease by executing behavioral testing, observing sleep patterns, and monitoring test subjects 5 times a week
* Used qPCR and DNA tests to determine the effect of sleep deprivation on memory through changes in gene expression
* Employed EEG to determine the response of animal sleep patterns and circadian rhythm to changes in environment

**Undergraduate Neuroscience Research Grant**  **Evanston, IL**

*Independent Research Project June 2024 – August 2024*

* Partnered with NASA to accurately measure how different environments in space flight affect human sleep
* Analyzed 150+ hours of video review of mouse sleeping conditions and behavior to determine a link between sleep deprivation and signs of visible discomfort; created a Mouse Grimace Scale to quantify and scale results
* Utilized Excel to record and perform statistical analysis of the data, finding significant and positive correlation
* Coded a facial recognition algorithm using DeepLabCut software on Python; trained algorithms on VsCode and GoogleCoLab platforms, creating an automated scoring system of sleep states
* Presented results to NASA representatives and laboratory team

**Learn To Skate** **Denver, CO**

*Coach January 2019 – March 2020*

* Led weekly practices of 10+ children ages 3-5 and coached them to learn figure skating, including special needs children

**Leadership Experience**

**Northwestern Figure Skating Club Evanston, IL**

*Secretary March 2024 - Present*

* Organized Lodging and Transportation for 20+ club members for three competition weekends
* Communicated with local ice rink to schedule twice weekly practices
* Acted as Team Transportation Coordinator, schedule transportation initiatives and bonding events

**Delta Delta Delta Sorority** **Evanston, IL**

*Risk Management and Wellness Officer March 2023 – March 2024*

* Organized programming for 150+ people on Hazing Prevention, Body Image, and Alcohol Awareness
* Arranged transportation for sorority events, monitored events, assigned assistants to ensure safety

*Housing Manager March 2022 – March 2023*

* Organized housing arrangements for 65+ members, led housing meetings
* Contacted, interviewed, and hired a catering company; chaired a committee on dining needs for the chapter

*Philanthropy Committee, Risk and Wellness Committee, Senior Committee Member March 2024 - Present*

* Coordinated and ran philanthropy event for St Jude Children’s Hospital, raising $1,000

**Projects**

**Infant Lactation Guide**

Worked with a design team to create an infant palate examination tool, presented to a client for use in a lactation office.

**Decreased Proprioception Measuring Aid**

Collaborated with a design group to create a project for the Shirley Ryan Ability Lab to assist a user with decreased mobility post stroke to accurately measure liquids.

**Additional**

**Technical:** Microsoft Office, Python, MATLAB

**Activities:** Figure Skating, Society of Women in Engineering, Outdoors Club

**Interests:** Reading, Cycling, Watching new Movies, Trying new Restaurants