

# Jon Wick

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## Summary

I am an undergraduate researcher at Western Washington University interested in combining my understanding of biology and computer science to advance the body of knowledge of biological phenomena. Currently, I am using computational methods to advance the understanding of small RNAs in *Tetrahymena thermophila* which are responsible for maintaining genome integrity as a part of the Lee lab.

## Education

**Western Washington University**, BS in Molecular and Cellular Biology Sept 2023 - present

- GPA: 3.77/4.0
- **Upper division Coursework:** Advanced Cell and Molec Lab, Genomic Data Analysis, Cellular and Molecular Biology, Biostatistics, Cell and Molec Lab, Genetics, Organic Chemistry series, Evolution.

## Research Experience

**Undergraduate Researcher**, WWU – Bellingham, WA June 2024 - present

- Investigate roles of sRNAs in an RNAi pathway responsible for maintaining genome integrity in *Tetrahymena thermophila*.
- Developed and used tools for genomic data analysis to understand sRNA biogenesis and effector loci.
- Performed Western Blots, maintained cells, and performed literature reviews to progress the goals of the lab.

**Computing Research**, Independent Research – Tacoma, WA February 2023- May 2024

- Published Paper for ACM SIGSCE conference about education and mentorship in extracurricular robotics.
- Formulated research questions for interviews and surveys.
- Conducted interviews and distributed surveys.
- Analyzed interviews and survey responses to extrapolate qualitative data.

## Computational Experience

**Programming Lead**, SOTabots FIRST Team 2557 September 2019 - June 2023

- Developed Code used in the semi-finals of the 2022 world championship of FIRST Robotics Competition.
- Taught students to program in Java and robot code using industry-standard design patterns.
- Coordinated with other leads on the team to develop a robot, build community, perform local outreach, and obtain funding.

## Publications

**Understanding the Leadership Structure and Mentoring Model of an Extracurricular Robotics Team: Key Findings from a Case Study** March 2024

Hitender Oswal, *Jon Wick*, Seth Tandon, Ashley Brewster, Sushil K Oswal  
DOI: 10.1145/3626253.3635603

## Relevant Courses

**Advanced Cell and Molec Lab** – BIOL 487, WWU Spring 2025

- Currently investigating the role of an E2 ubiquitin ligase, ubc-6, in *C. elegans* to further the research of the Dahlberg Lab at WWU.
- Utilized Western Blots, Reverse Transcriptase PCR, and PCR.
- Collect literature to improve understanding of ubc-6 in the context of other model organisms.
- Maintaining accurate lab notebook using Benchling.

## Posters

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### **Remapping previously sequenced 23-24 nucleotide sRNAs to the 2020 Tetrahymena thermophila Genome**

*WWU SURP poster session*, September 2024.

**Jon Wick**, Noah Haight, Suzanne Lee, Dan Pollard

### **Leadership Structure and Mentoring Model of an Extracurricular Robotics Team**

*ACM SIGSCE conference*, March 2024.

Hitender Oswal, **Jon Wick**, Seth Tandon, Ashley Brewster, Sushil K. Oswal

## Awards

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### **SURP award**

2025

Western Washington University, Dept of Biology

## Technologies

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**Biology Tools:** Genomic Data Analysis, Western Blot, PCR, Reverse Transcriptase PCR

**Programming Languages:** C++, C, Java, Python, Nix, R

**Technologies:** CLI, Benchling, Microsoft Office Server, Linux, Nixos, ImageJ