Jon Wick

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Summary

I am an undergraduate researcher at Western Washington University interested in combining my knowledge in biology and computer science. I am pursuing a Bachelors in Science for molecular and cellular biology with a minor in computer science. Currently I am researchering sRNA biogenesis and potential effector loci in the Lee lab at WWU.

Education

Wester Washington University, BS in Molecular and Cellular Biology — Sept 2023 - present

- GPA: 3.8/4.0
- **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, Independant Research – Tacoma, WA — Febuary 2023- May 2024

- Published Paper for ACM SIGSCE conference about education in extra curricular 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 2022 world championhip 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

Relavent Courses

Advenced Cell and Molec Lab – BIOL 487 — Spring 2025

- Investigated 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
- Collected literature to improve understanding of ubc-6 in the context of other model organisms
- Keep updated lab notebook using benchling

Genomic Data Analysis, BIOL 477 Winter 2025

- Investigated 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
- Collected literature to improve understanding of ubc-6 in the context of other model organisms
- Keep updated lab notebook using benchling

Posters

"Remapping previously sequenced 23-24 nucleotide sRNAs to the 2020 Tetrahymena thermophila Genome" for WWU SURP poster session, September 2024.
"Leadership Structure and Mentoring Model of an Extra Curricular Robotics Team" for ACM SIGSCE conference, March 2024.

Technologies

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

Programming Languages: C++, C, Java, Python, Nix, Latex

Technologies: CLI, Benchling, Microsoft Office Server, linux, nixos, ImageJ