

Alexis Wong

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Education

University of Washington

B.S. Materials Science and Engineering

Seattle, WA

Expected June 2027

Experience

Yankowitz Lab - Quantum Materials

Seattle, WA

Research Assistant

Dec 2025 - Present

- Fabricated various 2D nanomaterials such as graphene with scotch-tape
- Operated van der Waals transfer station for manual assembly of 2D heterostructures
- Utilized electron beam lithography, chemical etching on heterostructures to create and test nanoelectric devices

UW Engineering Student Organization, SAMPE:

Seattle, WA

Organization Member

Oct 2025 - Present

- Collaborated with peers to design and optimize composite beams able to withstand <6klb force for the international Student Bridge Competition at the annual SAMPE conference
- Assembled and cured prepreg fiber-reinforced composites for use in I-beam creation ensuring precision and consistency in material orientation, using industry-standard autoclave and vacuum bagging techniques

Material Advantage:

Seattle, WA

Outreach Volunteer

Apr 2025 - Present

- Engaged K-12 students in materials science through teaching concepts such as ductile-brittle transitions
- Supervised hands-on demos involving LN₂, shape-memory alloys, and beams

Team Read:

Seattle, WA

On-Site Leadership Role

Oct 2022 - Aug 2023

- Mentored team of 20+ tutors, resulting in effective 1:1 learning for their students
- Led biweekly post-shift meetings, resolving instructional and administrative concerns from staff

Projects

Surface Degradation, Adhesion Optimization:

- Collaborated with Boeing mentors to design and present an experiment which evaluated surface preparation effectiveness for adhesive bonding
- Increased performance by 2.5x through controlled cleaning procedures over intentionally degraded surfaces

Solo Project: 3D-Printed Figurine

- Modeled a detailed assembly of a 12in tall shelf-size robot figurine in SolidWorks
- Tested ball/socket joint tolerances to ensure full functionality before 3D-printing full-scale figure
- Finished model by sanding + hand painting for an aesthetic final product

Skills/Certifications

- **Working knowledge of Java, Python, SolidWorks**
- **Certificate in Laser Cutting from Seattle Makers**
- **Experience in the following:**
 - **Microscopy:** SEM, STM, optical microscopy, XRD/EDS
 - **Spectroscopy:** FTIR, UV-Vis
 - **Thermal Analysis:** TGA, DSC
 - **Mechanical Testing:** Hardness testing, Stress-Strain Analysis
 - **Materials Processing:** Cold Rolling, Investment Casting