

Alexander Womack

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EDUCATION

Amherst College | Amherst, MA | Expected May 2027

- ◆ Bachelor of Arts | Prospective Chemistry and Mathematics Major
- ◆ Relevant Coursework | Linear Algebra, Number Theory, Fundamental Chemical Principles, Principles of Thermodynamics and Kinetics, Organic Chemistry I, Introduction to Analysis

East Brunswick High School | East Brunswick, NJ | Graduated June 2023

- ◆ GPA (weighted): 4.5 | SAT: 1540

EXPERIENCE

Undergraduate Researcher | **Jaswal Lab** | Amherst, MA | January 2024 – Present

- ◆ Responsible for documenting experiments, updating and editing protocols, and attending weekly lab meetings
- ◆ Optimizing the protein purification of His-tagged recombinant protein L
- ◆ Maintaining lab condition, including waste, pH meter, glassware and autoclaving

Undergraduate Researcher | **Jaswal Lab** | Amherst, MA | June 2024 – August 2024

- ◆ Continued work under the SURF (Summer Undergraduate Research Fellowship) Program in the investigation of trypsin and trypsinogen behaviors
- ◆ Created presentation on equilibrium denaturation and its experimental techniques in the Jaswal Lab for the purposes of educating new lab members
- ◆ Attempted purification of bovine trypsinogen
- ◆ Ran equilibrium denaturation experiments to compare the effect of acetonitrile as a denaturant on trypsinogen in comparison to established denaturants urea and guanidine

Taekwondo Instructor | **Black K Taekwondo** | East Brunswick, NJ | July 2023 – August 2023

- ◆ Worked part-time as a Taekwondo instructor at local Taekwondo dojang
- ◆ Supervised and taught a range of intermediate and advanced classes by interpersonally coaching up to twenty students ranging from ages two to eighteen
- ◆ Professionally answered 12+ calls weekly and scheduled appointments for students and their families
- ◆ Designed flyers using Microsoft Word and displayed information for community members to view and installed decorations for 6+ community events to foster community engagement and promote new business

Taekwondo Junior Instructor | **Black K Taekwondo** | East Brunswick, NJ | September 2019 – June 2023

- ◆ Volunteered as Taekwondo junior instructor responsible for training 15 classes per week of 20+ students per class
- ◆ Earned the President's Gold Volunteer Service Award for 250 hours of community service from 2021-2022
- ◆ Trained and volunteered as a referee in 2023 World Taekwondo Association Tri-State Annual Tournament, monitoring sparring and poomsae matches and announcing placements and medals

LEADERSHIP

Senior Editor | *Folio Literary Magazine* | East Brunswick, NJ | September 2022 – June 2023

- ◆ Hosted club meetings facilitating group discussions of submitted writing, art, and photography
- ◆ Compiled submitted pieces and organized them for publication

SKILLS AND INTERESTS

- ◆ Native fluency in English, working proficiency in German
- ◆ Proficient in MS Office (Excel, Word, & PowerPoint)
- ◆ Taekwondo student since 2017, currently a second degree black belt