

Benecia Angelica

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EDUCATION

Western Michigan University, Kalamazoo, MI
Candidate for Master of Science, Biological Sciences

Expected December 2025

Western Michigan University, Kalamazoo, MI
Bachelor of Science, Biomedical Sciences
Minor in Chemistry and General Business
G.P.A 3.88; Dean's List, Diether H. Haenicke Scholarship, Tau Sigma National Honors Society

December 2023

RELEVANT COURSEWORK

- **Immunology:** Eagerly learn and apply knowledge in immunology, including innate and adaptive immune systems, B- and T-cells, antibodies, immunoregulation, vaccines, and autoimmunity
- **Virology:** Actively learn aspects of virology covering molecular mechanisms in tumorigenesis, gene therapy, and immuno-oncolytic virotherapy, enhancing understanding of recent developments in biomedical sciences
- **Microbial Genetics:** Explore in-depth knowledge of bacteria and bacteriophages, other concepts include mutation and selection, recombination and repair, regulation of gene expression, DNA cloning, and mutagenesis procedures

RELEVANT EXPERIENCE

Western Michigan University, Kalamazoo, MI

October 2023 – Present

Researcher in the Department of Immunology and Virology

- Leading a project on tanapoxvirus (TPV) IL-18BP as a therapeutic for autoinflammatory diseases: amplified vIL-18BP DNA, inserted into plasmids, transformed competent cells, and submitted for sequencing; plans include protein purification, binding crosslinker assays, and plaque titer analysis
- Expertise in cultivating and maintaining owl monkey kidney (OMK) cells for optimal growth and viability
- Initiate research, primarily literature reviews on the cultivation of monkey kidney cells in suspension for future methodologies (infection to TPV)

Kalsec Inc, Kalamazoo, MI

June 2023 – December 2023

Biochemistry Intern

- Aided in executing a wet lab project with a lead scientist to obtain 13 different proteins by transforming plasmids into competent cells, overexpressing, and purifying proteins, and implementing buffer exchange
- Undertook 6+ experiments and data collection on an active compound to analyze the effects of oxidation on oil stability via utilization of the Oxidative Stability Index (OSI)
- Contributed to the production of siderophore measured by Cu-CAS assay through media preparation, incubation, extraction using resin beads and vacuum filtration techniques, and lyophilized to test for its purity

WORK AND LEADERSHIP EXPERIENCE

Western Michigan University, Kalamazoo, MI

January 2024 – Present

Teaching Assistant for Human Physiology Lab

- Guide 100+ students by ongoing communication with the instructor ensuring a strong grasp of the subjects
- Consult students and arrange 1:1 mentor sessions to explore course objectives and provide different effective study techniques

International Student Council, Kalamazoo, MI

June 2024 – Present

Director of Marketing and Outreach

- Managed social media and design teams for 12 events, boosting engagement and followers by 10%
- Led weekly meetings to evaluate progress and improve team collaboration
- Amplified the voices of cultural organizations and students through strategic social media outreach

PERMIAS Kalamazoo (Indonesian Student Association), Kalamazoo, MI

July 2022 – July 2023

Public Relations

- Optimized recruitment by 50% through strategic social media account management
- Streamlined a campus-wide festival's decor in a team of 6 through deliverables with a budget of \$5,000 from sponsors

RELEVANT SKILLS

Cell culture, sterile techniques, OSI, Microsoft Suite, Canva, social media marketing, Python & Linux (basic)