

KATERINA NOVIC

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EDUCATION

The Pennsylvania State University <i>Eberly College of Science</i> Intended Bachelor of Science in Biology: Vertebrate Physiology Option Intended Minor: Biochemistry and Molecular Biology	University Park, PA Anticipated May 2028 GPA: 4.00 Dean's List
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University College Dublin <i>Organic Chemistry Summer School</i> Completed coursework in organic chemistry: Organic Chemistry I, II, and laboratory	Dublin, Ireland June 12, 2025 – August 9, 2025 GPA: 4.00
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RESEARCH EXPERIENCE

Davenport/Thomas Lab <i>Undergraduate Research Position</i> <ul style="list-style-type: none">Worked to answer the research question: How does the microbiome of <i>Drosophila melanogaster</i> affect physiological traits such as flight?Learned fly maintenance protocols and the procedures to make axenic and gnotobiotic flies	University Park, PA August 2025 – Current
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First Year Research Initiative <i>Undergraduate Research Position</i> <ul style="list-style-type: none">Developed lab skills including PCR, gel electrophoresis, DNA extraction and purification, and Sanger Sequencing analysis.Presented a molecular research project on hypodontia with a focus on mutations in <i>PAX9</i> and <i>MSX1</i> genes and a poster on research pertaining to CRISPR deletions of SEOR1 and SEOR2 genes in <i>Arabidopsis thaliana</i>.	University Park, PA August 2024 – May 2025
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LEADERSHIP

Learning Assistant for the First Year Research Initiative Lab <i>Instructional Team Member</i> <ul style="list-style-type: none">Assisted first year students in learning about genomics research and designing their own research projects.Attended weekly lab meetings, held two hours of office hours per week, and graded electronic lab notebooks.	University Park, PA August 2025 – Present
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HONORS

The President Walker Award <i>Award Recipient</i> <ul style="list-style-type: none">Earned a 4.0 GPA based on a minimum of 12 Penn State credits during first semester of admission	University Park, PA April 2025
Representation in Science at Eberly for Undergraduate Pre-Health Students (RiSE UP) <i>Student Member</i> <ul style="list-style-type: none">Received DiMarcello Pre-health Summer Bridge Program Support Fund scholarshipParticipated in a health care immersion trip to CHOP, networking, learning strategy workshops, and received advisor support	University Park, PA August 2024 - Present

CERTIFICATIONS

Stop the Bleed <ul style="list-style-type: none">Organized by American College of Surgeons: Committee on Trauma	Philadelphia, PA April 2025
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ACTIVITIES

Pillar (Special Interest Organization benefitting THON) <i>Student Club Member</i> <ul style="list-style-type: none">Attended weekly meetings to review information pertaining to THON fundraising activitiesAttended club events like socials and excursions to meet with our two THON families	University Park, PA August 2025 - Present
Mount Nittany Health <i>Volunteer</i> <ul style="list-style-type: none">Developed customer service skills by working in the Endoscopy unit transporting patients and checking in patients at the cardiovascular pavilion and surgical services desk	University Park, PA January 2025 – Present