

# Kennedy Smucker

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## EDUCATION

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**University of Michigan (College of Literature, Science, and Arts) Ann Arbor, MI**

**B.S. Biomolecular Science | GPA: 4.0 2024 - 2027**

**Organizations:** LSA Honors Program, Changing Gears Research Program, Transfer Connections Program, Undergraduate Research Opportunity Program

**Michigan State University (Lyman Briggs College) East Lansing, MI**

**B.S. Human Biology | GPA: 3.95 | 2023 - 2024**

**Organizations:** MSU Honors College, Pre-Student Osteopathic Medical Association, American Medical Student Association, MSU Care4Kids, Pathway to Research

## EXPERIENCE

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**Teacher | Kalamazoo Area Math and Science Center | Kalamazoo, MI | June - August 2024**

- Developed interest in STEM for students in K - 8th grade.
- Taught courses related to physics, laboratory experimentation, geology, and other sciences.
- Presented research opportunities for students at public parks in Kalamazoo to generate STEM interested in underprivileged communities.

**Research Assistant | Zoetis Pharmaceutical | Kalamazoo, MI | August 2022 - April 2023**

- Researched under Dr. Mark Wolfe, Principal Scientist at Zoetis, analyzing effects of various plant extracts on prostate cancer cells.
- Led setup of cell-based multi-well plate assays to assess differences in viability of PC-3 cells.
- Measured death rates of cancer cells and graphed growth curves of cancer cells and ATP.
- Presented research at the Science and Engineering Fair of Metro Detroit (SEFMD) and at Western Michigan University.

**Student Researcher | Kalamazoo Area Math and Science Center | Kalamazoo, MI | June 2020 - May 2023**

- Inhibition of sAPP Genes Associated with BACE1 to Decrease the Accumulation of amyloid- $\beta$  in regions of the brain affected by Alzheimer's (2023)
- Ethics of Human Modification (2023)
- Physics of a Van De-Graaff Generator (2022)
- Effects of Various Caffeine Concentrations on the Carbon Dioxide Production of *Saccharomyces Cerevisiae* (Yeast) During Fermentation (2022)
- Effects of Varying Temperature on the Percentage Fat of French Fries Using Solvent Extraction (2021)
- The Role of Cytokines in Autoimmune Diseases: Hashimoto's Thyroiditis (2020)

## AWARDS AND RECOGNITIONS

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- Michigan State University: Lyman Briggs Dean's Honors List (2023 - 2024)
- Western Michigan University (2023): In Vitro Cell / Tissue Engineering and Biology 1st Place Award
- Science and Engineering Fair of Metro Detroit (2023): Certificate of Recognition