

Kennedy Smucker

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EDUCATION

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

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

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- β 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

- 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
- Kalamazoo Area Math and Science Center (2022): Outstanding Research Award