

Spencer Wozniak

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As an aspiring physician with experience in the biomedical sciences, clinical care, data analysis, education, and behavioral health interventions, I am eager to contribute to improving community health in San Diego.

Education

Bachelor of Science in Human Biology, Minor in Bioethics

Michigan State University | East Lansing, MI

September 2020 - May 2024

GPA: 3.91 (Honors) | MCAT: 524

Experience

Applied Behavior Analysis Therapist

August 2024 – Present

Coyne and Associates | San Diego, CA

- Implemented targeted interventions to develop functional communication for nonverbal children.
- Taught emotional regulation techniques to reduce negative emotions and challenging behaviors.
- Supported development of gross motor skills through structured play and movement-based activities.
- Collaborated with caregivers to ensure treatment compliance and maintain behavioral improvements.

MCAT Tutor

November 2024 – Present

WozPrep (www.wozprep.org) | San Diego, CA

- Founded a private tutoring service with a custom-built website and student-facing tools.
- Conducted 1-on-1 tutoring sessions, produced customized study plans, and provided resources to help students increase their MCAT scores, with some students improving by as much as 50 percentile points.

Research Assistant

September 2020 – April 2025

Biochemistry Department, Michigan State University | East Lansing, MI

- Assisted in study startup activities and research protocol design under Dr. Michael Feig.
- Utilized software including R, Python, C++, Bash, and Excel to conduct statistical analyses, verify simulation accuracy, and refine artificial intelligence (AI) models to optimize performance.
- Curated and maintained large datasets to train AI algorithms for applications in biochemistry.
- Collaborated with interdisciplinary teams to present research findings and refine methodologies.

Medical Scribe

July 2023 – August 2024

Memorial Healthcare | Owosso, MI

- Assisted several emergency and internal medicine physicians in the ED and ICU by documenting histories, exam findings, procedures, orders, and assessment & plans for up to 20 patients per shift.
- Collected preliminary patient histories and medication lists to improve physician efficiency.
- Interpreted laboratory values to determine clinical relevance to ensure efficient, accurate documentation.

Volunteer Staff

September 2022 – April 2023

Sparrow Hospital | Lansing, MI

- Assisted up to 40 patients per shift with activities of daily living alongside nurses in an inpatient unit.
- Measured vital signs, transported patients within the hospital, and observed diagnostic imaging exams.

Research Projects

Accurate Predictions of Protein Properties via Structure-Based Embeddings

July 2022 – Present

<https://doi.org/10.1101/2024.12.10.627714>

- Led the development of an AI algorithm for modeling proteins among a team of post-docs.
- First-author manuscript pending publication in the *Journal of Chemical Theory and Computation*.

Diffusion and Viscosity in Mixed Protein Solutions

January 2021 – November 2024

<https://doi.org/10.1021/acs.jpcb.4c06877>

- Utilized molecular dynamics simulations to study the dynamics of highly crowded protein systems.
- Wrote a first-author research article published in the *Journal of Physical Chemistry B*.

Certifications

Basic Life Support (BLS) Certification

American Heart Association | 255417519570

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