

Theodore Kaiser

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EDUCATION

University of Pennsylvania, College of Arts and Sciences

Bachelor of Arts

Major in Biology, Minor in Healthcare Management

Relevant Coursework: Multivariable Calculus; Wharton Statistics; Organic Chemistry; Human Physiology

Philadelphia, PA

Expected May 2027

GPA: 3.9/4.0

Junipero Serra High School

Outstanding Student Award

San Mateo, CA

June 2023

PROFESSIONAL EXPERIENCE

Mayo Clinic, Zhu Lab

Researcher

Phoenix, AZ

Summer 2025

- Applied a novel biochemical technique to manipulate heart cells for the first time, with potential applications in regenerative medicine. Presented a poster “Investigating Electrophysiological Changes in DREADD-Expressing hiPSC-Derived Cardiomyocytes.” Collaborated closely with postdoctoral researchers and MD–PhD trainees.
- Selected for the NIH-funded 2025 REU Program (\$6,000 award) at the Zhu Laboratory, one of 167 students chosen from 1,403 applicants.
- Developed code to translate cardiomyocyte movement videos into quantified heartbeat rates; analyzed experimental data for statistical significance using R.

Perelman School of Medicine at the University of Pennsylvania, Raizen Lab

Researcher

Philadelphia, PA

September 2024 – May 2025

- Collaborated with PhD candidates and postdoctoral researchers to screen *C. elegans* strains for quiescence defects. Conducted selective genetic crosses for complement testing and cryopreserved over 100 worm strains.
- Reviewed neurology research literature to contribute meaningfully to lab discussions.

Dahl-Chase Pathology Clinic

Researcher

Bangor, ME

Summer 2023

- Examined histological slides to identify tissue types and pathological features. Performed clinical measurements and quantitative analyses during two autopsies to determine cause of death.
- Developed weekly presentations for physicians and interns on infectious diseases.

LEADERSHIP & EXTRACURRICULARS

Collegium Institute

Fellow

Philadelphia, PA

September 2023 – Ongoing

- Authored articles covering philosophy and Catholic humanism for the Collegium Institute blog. Participated in weekly discussions and readings from classical literature.
- Assisted in membership recruitment, increasing newsletter sign-ups from 69 to 101 students.

Veteran's Affairs Hospital

Palo Alto, CA and Philadelphia, PA

- Completed 50+ volunteer hours assisting with patient transport, front desk operations, and patient support services.

Boy Scout

Eagle Scout

San Mateo, CA

2016-2023

SKILLS & INTERESTS

Certifications: EMT certification, BLS certification, FCC Technician Class 2 Radio License

Technical: MATLAB, Excel, scientific writing, cell culture, optical mapping, fluorescence microscopy, chemogenetics, R

Language: Spanish (intermediate)

Interests: UPenn club Cross Country and Track and field team: Recreation Coordinator, Half Marathon runner,

Movies, Camping/Backpacking, Canoeing, Gym