

# 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**

*Volunteer*

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