

# Ethan Madison

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## INTERESTS & SKILLS

- Periodontics, Preventative Healthcare, Oral-Systemic Connection, Urbanism
- Software development, Fencing, Cycling, Drumming

## LANGUAGES

- English – *native speaker*
- Spanish – *working proficiency*

## Education

- 2023 – 2026 CERTIFICATE & MASTER OF SCIENCE (ANTICIPATED), Periodontics  
*The University of Alabama at Birmingham, Birmingham, AL*
- 2020 – 2023 DOCTOR OF DENTAL SURGERY  
*University of the Pacific Dugoni School of Dentistry, San Francisco, CA*
- 2015 – 2019 BACHELOR OF SCIENCE, Computer Science  
*University of Michigan—College of Literature, Science, and Arts, Ann Arbor, MI*

## Professional and Volunteer Experience

- 2022 – 2023 UNIVERSITY OF THE PACIFIC DUGONI SCHOOL OF DENTISTRY  
*Medical Emergency Response Team Teaching Intern*
- One of 11 students on call for managing medical emergencies on campus.
  - Obtained ACLS certification, reviewed emergency medicine and high-performance team concepts, practiced application in simulated and real medical emergencies.
  - Taught advanced airway management to other dental students in selective courses.
- 2021 – 2023 UNIVERSITY OF THE PACIFIC DUGONI SCHOOL OF DENTISTRY– San Francisco, CA  
*Clinic Ambassador; Vaccine Clinic Volunteer*
- Work with administrators to address issues in clinic on behalf of student body. Interviewed candidates to find and hire new leader for my group practice.

- Vaccinated students, faculty, and other members of community against COVID-19; also helped with patient flow and records at beginning of vaccine rollout.

2022 STANFORD MEDICAL CENTER– Palo Alto, CA  
*Clerkship, Oral Surgery and Hospital Dentistry*

- Two-week clerkship with Stanford Medical Center’s dental specialty program.
- Worked in hospital setting treating medically compromised and/or complex patients, addressing trauma, acute odontogenic infections; alongside physicians and hospital team.

2020– BOUTS.APP  
*Founder & Primary Developer*

- Authored software for management of collegiate and high school fencing leagues to simplify running of leagues, provide better access to results and rankings.
- Run business as software-as-a-service with season-long subscription model.

2019 – 2020 HARVARD-WESTLAKE SCHOOL– Studio City, CA  
*Assistant Fencing Coach*

- Returned to my high school to teach fencing to 60 member varsity team.
- Coached team to league championship in absence of head coach.

2017 – 2019 HILLS H3 FENCING INSTITUTE– East Northport, NY  
*Assistant Epee Coach*

- Coached junior fencers for Long Island-based non-profit fencing program, and competed representing H3 in national tournaments.
- Allowed me to travel and explore the country while pursuing a passion.

2018 – 2019 UNIVERSITY OF MICHIGAN BIOLOGICAL CHEMISTRY: TRIEVEL LAB– Ann Arbor, MI  
*Undergraduate Researcher*

- Studied biochemistry and structural characteristics of bacterial lysine methyltransferases which are important to virality of infectious bacteria via cloning, expression, purification, and protein crystalization; particularly *B. anthracis*.
- Successfully cloned BaSET and RomA genes, expressed and purified the relevant proteins. Conducted novel methyltransferases research.
- Trained new undergraduate researchers on how to perform lab procedures.

## Student Organization Experience

2023 PACIFIC GUATEMALA DENTAL SERVICE TRIP  
*Trip Leader*

- Organized school’s service trip to Guatemala for 12 students and 4 faculty, which included supplies procurement, coordination with clinic, and management of personnel.
- Team provided gratis dental care to over 100 patients over five day period with over 300 treatments rendered.
- Wrote leader manual for future trip leaders detailing all aspects of the trip.

- 2022 – 2023 PACIFIC STUDENT ASSOCIATION FOR SUSTAINABILITY AND GREEN DENTISTRY  
*Treasurer*
- Launched new student organization to promote awareness, motivation, and education regarding planet- and people-healthy practices in dentistry and beyond.
- 2022 UNIVERSITY OF THE PACIFIC PAC-MANUAL  
*Pac-Manual Student Leader*
- Part of student team which edits and updates official clinical manual used by all faculty and students in the school, via coordination with department chairs.
  - Primary editor for periodontal pages; also rewrote local anesthesia page based on updated recommendations and using more detailed instructions,
- 2015 – 2019 UNIVERSITY OF MICHIGAN CLUB FENCING – Ann Arbor, MI  
*Co-President, Captain, Competitor & Webmaster*
- Replaced and repaired old fencing equipment with safer, cleaner weapons and whites to increase beginner retention, as well as doubled our scoring equipment from three sets to six sets to allow more fencing in practice.
  - Liaison between the club and Club Sports department in ensuring compliance, organizing events, etc. Primary contact for Midwest Fencing Conference.
  - Elected by club members to the co-presidency at end of my second year, and then re-elected as co-president becoming the first two-term president.
  - As president, led the team on consecutive historical years; raising over \$30,000, starting an endowment fund, and winning the team's seventh national title.
  - Taught fencing to beginners and develop experienced fencers by running practices, giving private lessons, and facilitating analysis of fencing situations.
  - Twice captained three-man squad to top-three in Midwest, over D-I varsity teams.
  - Competed with and coached men's and women's epee squads to win three team national championships and individual national champion runner-up (three times).
  - As Webmaster, I re-wrote the website using modern templating techniques, regularly update the site, and now training the future webmasters with documentation.

## Presentations

Sorenson C, Hackley D, Tummala N, Huang H, **Madison E**, Morales-Acosta I, et al. *Harnessing the Oral Health Profession to Tackle the Climate and Health Crisis*. ADEA Chair of the Board Symposium presented at 2023 ADEA Annual Session & Exhibition; 2023 Mar 12; Portland, OR.

## Awards & Honors

- 2023 AMERICAN ACADEMY OF PERIODONTOLOGY AWARD: Most promise in periodontics  
2023 SAN FRANCISCO DENTAL SOCIETY PROFESSIONALISM AND ETHICS AWARD: Demonstrated ethics and professionalism in the management and treatment of patients