

Sebastian Soto-Pinzon

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EDUCATION

Temple University Kornberg School of Dentistry

Philadelphia, PA.

Post Baccalaureate Dental Program

Start date: May 2024 | Completion date: April 2025

- An eleven-month dental program (15 classes over three semesters).
- Course curriculum includes classes such as: Microbiome + Microbiome techniques, Dental Anatomy, Dental Radiology, Advanced Practical Clinical Practice, Intro to Ortho, Intro to Dental + Oral Health Sciences, Intro to Dental Biochem + Oral Health Sciences, Basic + Advanced statistical Method, as well as DAT preparatory.
- Obtain certifications for Dental Assisting and Dental Radiology while working alongside current dental students at Temple's patient clinics.
- Mentored by dental faculty and students to achieve acceptance into dental school.

Pennsylvania State University

University Park, PA.

Eberly College of Science

December, 2023

B.S, Biochemistry and Molecular Biology

Dean's List

EXPERIENCE

Flagship Oral, Facial, and Dental Implant Surgery

Warminster, PA

Oral Surgery Shadowing - 250 Hours

Jan. 2024 to May 2024

- Observed Oral Surgery with Andrew R. Steinkeler, MD, DMD, and Dilshan N. Gunawardena, MD, DMD, FACS, acquiring first hand insights into private oral surgery practice operations
- Gained knowledge of oral surgery services including wisdom tooth extractions, tooth extractions, dental implants, bone grafting, orthognathic surgery, botox as TMJ treatment, facial trauma surgery, biopsies and removal of oral lesions.
- Gained knowledge of anesthesia including IV placement, pulse oximeter, BP monitor, electrocardiogram, and respiratory rate monitor usage
- Learned to interact and speak with many different types of patients and team members

Family and Cosmetic Dentistry Larry E. Krevitz, DDS, PC

Hatboro, PA

General Dentistry Shadowing - 30 Hours

Apr. 2024 to May 2024

- Observed general dental care with Dr. Larry Krevitz, acquiring first hand insights into private dental practice operations
- Gained knowledge of dental services including teeth whitening, bonding, veneers, cosmetic contouring, fillings, crowns and bridges
- Received mentorship, highlighting and observing the importance of strong patient relationships
- Observed use of intra oral cameras and x-rays
- Received mentorship, highlighting importance of sterilization and hygiene practices

The School of Dentistry of The Universidad Santo Tomas

Santander, Colombia

Inter-Semester Research Course - Total course load of 180 hours.

May 2023 – August 2023

- Participation in the 101st International Association for Dental Research General Session and Exhibition.
- Shadowed dentists and dental students while treating impoverished pediatric patients at the International Hospital of Colombia.
- Participation in a conference and initiative about the high levels of fluoride in the drinking water of impoverished Colombian towns.

- Shadowed a dental professor completing his research in oral cavity sampling and Streptococcus Mutans detection.
- Course completed on inflammation and the immune response
- Introduction to Stata statistical software.
- Artistic Dental Morphology.
 - Created molds using pocket knife including specific anatomy of teeth from permanent dentition
- Tooth Bank:
 - Review of tooth surfaces (mesial, distal, vestibular, occlusal, palatal).
 - Classification of the teeth (healthy, obturated, decayed) of the Tooth Bank.

Verder Scientific Inc.

June 2022 – August 2022

QATM Lab - Materialography + Hardness Testing - Cut-Off Machines, Mounting, Grinders & Polishers & Hardness Testers for sample preparation

- Observed how different devices were used
- Assisted in setting up and running some of the QATM customer samples
- Quickly developed proper techniques of basic instruments
- Organized more than 1000 envelopes to mail around the United States to customers

ELTRA Lab - Elemental Analysis - Analysis of solids via CHS Analyzers, ONH Analyzers + Thermogravimetric Analyzers

- Shadowed application specialist in the lab, working with clients
- Used the CS Analyzer to do elemental analysis of customer samples
- Communicated with both lab team and clients
- Adjusted to the various job assignments and established relationships with co-workers at Verder Scientific.

Microtrac Lab - Particle Characterization - Dynamic + Static image analysis, Laser Diffraction, Dynamic light Scattering & zeta potential

- Observed the Diffraction Specialist in the lab, aiding in the use of various equipment to solve customer questions or material issues
- While shadowing, created excel spreadsheet of scientific papers showing different applications for laser diffraction

Microtrac BEL Lab - Equipment for analysis of Surface area + pore size, Catalyst evaluation + high-pressure gas adsorption and Density measurement

- Worked closely with the Adsorption Specialist Nathan Bays, focused on gas adsorption, surface area, and pore size in the BEL lab. I
- Helped set up and operate the BELsorp equipment.
- Spent two days setting up complex gas piping for the lab with the help of a specialist
- Troubleshoot Belsorp equipment alone, read through multiple manuals

Pre-Dental Society

- Practiced manual dexterity in meeting like soap carving
- Volunteered at blood drive and food pantry

Remote Area Medical

- Volunteered at Senior Nursing Homes

Minority Association of Pre-Medical/Health Students

- Connected with other minority students interested in health fields and future aspirations in science

- Share, help, and learn strategies with other students on how to develop a career in health as a person in a minority group

SKILLS

Fluent in Spanish | Performed and learned Chromatography techniques | Performed and learned Ultracentrifugation techniques | Learned about Nuclear Magnetic Resonance | Practiced DNA Isolation techniques | Learned about Southern Hybridization Analysis | Performed DNA sequencing | Performed Dialysis | Used Gel electrophoresis in multiple lab settings | Spectroscopic Analysis | Isolated and stained microorganisms | Learned about Mass spectroscopy | Performed PCR | Performed NMR/IR/GC analysis | Performed SDS-PAGE and native gel | Conducted Bradford Assay | Conducted research project on the effect of temperature on LDH enzyme and composed a scientific paper | Conducted Enzyme kinetics and inhibition experiments | Performed various purification techniques on proteins | Performed and learned full mouth series FMX |