

University of Detroit Mercy
School of Dentistry

CURRICULUM VITAE
Nacxit A. Calderon Trejos, D.D.S., MSc.

Office Address:

Division of Clinic Essentials and Simulation
University of Detroit Mercy
School of Dentistry
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Education:

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| 2001-2007 | Purísima Concepción de María High School.
Chinandega, Nicaragua
Bachelor of Science and Letters. |
| 2008-2013 | National Autonomous University of Nicaragua.
Leon, Nicaragua.
Doctor of Dental Surgery (DDS equivalent) |
| 2015-2018 | National Autonomous University of Nicaragua
Leon, Nicaragua.
Master of Science in Esthetic Restorative Dentistry (MSc) |
| 2022-2022 | Redemptoris Mater Catholic University: UNICA.
Managua, Nicaragua
Health research methodology with emphasis on data analysis. |

Master's Thesis:

National Autonomous University of Nicaragua, Leon, Nicaragua. 2021
'Evaluation of the effect of 2% chlorhexidine digluconate on the adhesion strength of a resin-based cementing agent on natural premolar teeth. IN VITRO study'

State Licensure:

2023-Present Clinical Academic Limited License 2952000867
STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
BOARD OF DENTISTRY

Academic Appointments:

2023- Clinical Assistant Professor
Division of Clinic Essentials and Simulation
University of Detroit Mercy
School of Dentistry
Detroit, MI

2026- Co-Director of Simulation Education Innovation
Division of Clinic Essentials and Simulation
University of Detroit Mercy
School of Dentistry
Detroit, MI

Professional Activities – Nonacademic:

Professional Organizations:

2023- American Dental Education Association – ADEA
2023- American Academy of Cosmetic Dentistry – AACD
2026- Hispanic Dental Association – HDA

Academic Service:

School of Dentistry

2023-Present Educational Technology Committee

Ad Hoc Committees:

2024-Present Dental AI Subcommittee

2026-Present Chair-Materials and Instrumentation Committee

Community Service Activities:

2023- Member of Rotary Club of Trenton.
Trenton, Michigan

Honors:

2013 **Academic Recognition**
Student Teaching Assistant (Anatomy and Operative Dentistry)
Faculty of Dentistry, National Autonomous University of Nicaragua –
León (UNAN-León).

2016 **Certificate of Recognition – Invited Speaker**
Faculty of Dentistry, National Autonomous University of Nicaragua
León (UNAN-León).

2017 **Certificate of Recognition – Lecturer**
Association of Dental Surgeons of León.

2017 **Certificate of Recognition – Lecturer**
Faculty of Dentistry, UNAN-León.

2019 **Certificate of Appreciation – Invited Lecturer**
For conference “*Composite: Why, When, and How?*”.

2022 **Certificate of Academic Excellence**
Universidad Católica Redemptoris Mater (UNICA)
Diploma in Health Research Methodology with Emphasis in Data
Analysis.

2025 Certificate of Appreciation – Invited Speaker and Hands-On Instructor.
Universidad Católica Redemptoris Mater (UNICA), Managua, Nicaragua.

Teaching Responsibilities:

Predoctoral Teaching

National Autonomous University of Nicaragua-Leon (UNAN-Leon)

2016-2018 **Faculty of Dentistry Professor (Part-Time / Adjunct)**
Preclinical Dental Anatomy.
Preclinical and Clinic Operative Dentistry.
Preclinical Fixed Partial Denture
Clinic Comprehensive Dental Care Clinic for Adults Level II
Clinic Comprehensive Dental Care Clinic for Adults Level III

Universidad Católica Redemptoris Mater

2019-2023 **Faculty of Dentistry Professor (Part-Time / Adjunct)**
Operative Dentistry I
Operative Dentistry II
Operative Dentistry III
Operative Dentistry IV
Operative Dentistry V
Clinical Practice in Operative Dentistry I–IV
Restorative Dentistry (Didactic and Clinical Components)
Tutor for Undergraduate Monographic Thesis (Dentistry Program)

2022 Postgraduate Certificate Program in Esthetic Operative Dentistry-Faculty Instructor (Founding Cohort).

University of Detroit Mercy

2023-present Course Director (Didactic and Preclinical Courses).

Academic Year 2023–2024

- Adhesive Direct Restorative Dentistry (DCS 8203) – **Winter**
Didactic | Course Director
- Indirect Restorative Dentistry (DCS 8103) – **Summer**
Didactic | Course Director
- Simulation Clinic III (DCS 8311) – **Summer**
Preclinical | Course Director

Academic Year 2024–2025

- Traditional Direct Restorative Dentistry (DCS 8103) – Fall
Didactic / Course Director
- Principles of Restorative Dentistry (DRD 6040) – Fall
Didactic / Faculty, AEGD Program
- Adhesive Direct Restorative Dentistry (DCS 8203) – Winter
Didactic / Course Director
- Indirect Restorative Dentistry (DCS 8103) – Summer
Didactic / Course Director
- Simulation Clinic III (DCS 8311) – Summer
Preclinical / Course Director

Academic Year 2024–2025

- Direct Restorative Dentistry II (DCS 8110) – Winter
Didactic / Course Director.
- Simulation Clinic: Restorative Dentistry III (DCS 8123) – Winter
Preclinical / Course Director.
- Simulation Clinic: Restorative Dentistry IV (DCS 8124) – Winter
Preclinical / Course Director
- Simulation Clinic: Restorative & Fixed Skills Assessment – Winter
Preclinical / Course Director

Graduate/Postgraduate Teaching

University of Detroit Mercy-School of Dentistry

2024

Guest Instructor / Faculty Lecturer – Restorative Dentistry.
Accelerated Dental Program (DRD 6040)

Academic Service

- Undergraduate Thesis Advisor (Dentistry Program), UNICA

Administrative & Leadership Appointments

2026-Present

Co-Director of Simulation Education Innovation
Division of Clinic Essentials and Simulation
University of Detroit Mercy School of Dentistry.

- Curricular Integration and Implementation Lead for DS1–DS2 Digital Dentistry assignments
- Lead the development and implementation of innovative simulation-based and digital dentistry educational strategies.
- Support faculty calibration, competency-based assessment, and learner preparedness for clinical care.

Mentorship of Postdoctoral Teaching Fellows (Didactic Course Support)

Integrated Biomedicine & Diagnostic Sciences Program

Winter 2026

- Provided structured mentorship to postdoctoral teaching fellows in preparation and delivery of didactic lectures in operative dentistry.
- Reviewed and approved lecture content prior to Blackboard release to ensure alignment with Simulation Clinic objectives, grading rubrics, and preclinical exercises.
- Conducted pre-lecture meetings to provide pedagogical feedback on organization, sequencing, and assessment criteria.
- Collaborated with course faculty and instructional media to support consistent and effective content delivery.

Community Engagement / Volunteer Activities

1. Faculty Contributor – Summer Enrichment Program (SEP)

Office of Diversity and Inclusion, University of Detroit Mercy School of Dentistry

Summers 2023 & 2024

Participated as a faculty contributor in the Summer Enrichment Program, supporting pre-dental students through simulation-based activities, academic guidance, and mentorship focused on diversity and inclusion.

2. Volunteer – Summer Enrichment Program (SEP)

University of Detroit Mercy School of Dentistry, Detroit, MI

Summers 2023 & 2024

Assisted pre-dental students during simulation laboratory exercises and career preparation activities, supporting the school's mission to mentor and inspire future dental professionals.

Other

Creative Productivity:

Include areas of research, including educational research, and development of special teaching aids, etc.; provide a brief explanation of specific projects.

2023-Present Digital Dentistry Integration in Predoctoral Simulation and Didactic Courses.

Developed and implemented digital dentistry workflows in preclinical and didactic courses, including intraoral scanning, digital preparation assessment, and CAD-based restorative design. Integrated MeditLink, Compare software, and digital rubrics into simulation clinic and restorative dentistry curricula.

2024-Present Simulation Clinic Educational Resources and Digital Manuals.

Designed and authored structured simulation clinic educational materials, including step-by-step clinical manuals, digital rubrics, and a FlipBook-style *UDM Simulation Clinic Student Guide* to support standardized instruction and student self-assessment.

2024-Present Course Redesign and Curriculum Development in Restorative Dentistry.

Led curriculum updates and redesign for multiple restorative dentistry courses as Course Director, incorporating evidence-based adhesive dentistry principles, updated assessment methods, and alignment with CODA competencies.

2024-Present Development of 3D-Printed Educational Models for Restorative Dentistry.

Developed and implemented 3D-printed tooth models for simulation clinic exercises to enhance student understanding of tooth preparation design, indirect restorations, and fixed prosthodontic principles.

2025-Present Educational Research in Digital Dentistry and Student Engagement.

Principal investigator for an educational research project assessing acceptance and engagement with digital dentistry tools among first-year dental students. Project prepared for presentation as a digital poster at the ADEA Annual Session.

2025-Present Biomimetic Dentistry Educational Workshops and Teaching Modules.

Developed didactic and hands-on educational modules focused on biomimetic dentistry principles and digital clinical workflows, including tooth preparation, intraoral scanning, and digital restorative design.

Service

A. Service to the University

2024-Present Faculty Interviewer – DDS Admissions Committee.
University of Detroit Mercy School of Dentistry.

Participate as a faculty interviewer in the dental school admissions process, conducting structured interviews and contributing to holistic applicant evaluation.

2025-Present Mock Interviewer – Impressions Day Program.
Student National Dental Association (SNDA)
University of Detroit Mercy School of Dentistry.

Participated as a faculty volunteer interviewer, providing mentorship and mock interview feedback to pre-dental students preparing for dental school admissions.

2025-Present Co-Lead, Faculty Calibration for Digital Dentistry Assignments.
University of Detroit Mercy School of Dentistry

- Co-developed and implemented a structured faculty calibration program supporting consistent and equitable grading of digital dentistry assignments across multiple preclinical courses
- Coordinated recurring calibration sessions involving 10–12 faculty members per session, focused on digital wax-ups, CAD/CAM workflows, and objective assessment using MeditLink and COMPARE
- Led calibration for graded digital assignments representing 2.5–5% of course assessment weight, including digital waxing, COMPARE Class II and IV evaluations, indirect restoration design (inlay/onlay), and custom tray design
- Collaborated across courses, including DCS8110 (Direct Restorative Dentistry II) and DCS8200 (Clinical Readiness II), supporting integration of 3D study model design and digital readiness competencies
- Promoted fairness, consistency, and alignment with course objectives through standardized rubrics, shared benchmarks, and guided faculty discussions
- Worked closely with course directors and digital dentistry leadership to support faculty development, assessment calibration, and student learning outcomes

2026-Present Faculty Mentor, DS1 Cohort (Student Mentorship Program)
University of Detroit Mercy School of Dentistry

- Provide academic, professional, and personal mentorship to first-year dental students (DS1), supporting transition into dental school and early clinical readiness development.
- Facilitate structured group meetings and individual advising sessions focused on academic performance, time management, wellness, and professional growth.
- Collaborate with the Office of Student Services to promote student engagement, retention, and academic success.

March 2026 Faculty Volunteer, Dental Imprint Program
University of Detroit Mercy School of Dentistry

- Participated in outreach program introducing middle and high school students to careers in dentistry through hands-on dental activities and faculty engagement.

March 2026 Admissions Interviewer, Internationally Trained Dentist (ITD)
Program
University of Detroit Mercy School of Dentistry

- Conducted applicant interviews for the ITD program admissions process.
- Evaluated internationally trained dentists for advanced standing placement.

Research / Scholarly Activities

Research Involvement – Bioceramic Materials Project (Planning Phase)
University of Detroit Mercy School of Dentistry

April 2025

- Participated in thesis advisory board discussions for a research project investigating bioceramic materials for perforation repair and fracture resistance (Biodentine XP200, Endosequence BC RRM, and NeoMTA).
- Contributed to study design, methodology development, materials selection, and preliminary protocol planning during the initial research phase.
- Project continuation assigned to the research team following my departure during the H-1B visa processing period.

Speaking Engagements:

Local/State:

None

National/International:

2016 **Invited Speaker** – *Interdisciplinary Management in Oral Rehabilitation.*

Faculty of Dentistry, National Autonomous University of Nicaragua
– León (UNAN-León)
León, Nicaragua

- 2017 **Invited Speaker** – *Interdisciplinary Management in Oral Rehabilitation.*
Association of Dental Surgeons of León
León, Nicaragua
- 2019 **Invited Lecturer** – *Composite Dentistry: Why, When, and How?*
Faculty of Dentistry Academic Conference
Nicaragua
- 2022 **Faculty Instructor** – *Postgraduate Certificate Program in Esthetic Operative Dentistry (First Cohort).*
Universidad Católica Redemptoris Mater (UNICA)
Managua, Nicaragua
- 2025 **Invited Speaker** and Hands-On Workshop Instructor
Preserving to Restore: Biomimetic Dentistry with Digital Clinical Workflow (Didactic lecture and hands-on training: preparation, scanning, digital design).
Universidad Católica Redemptoris Mater (UNICA)
Managua, Nicaragua

Table Clinics:

None

Publications

Theses:

Calderón Trejos, N.A.; Calderón Tijerino, R.M.; Campos Cortez, J.M.
Relationship between facial form and periodontal biotype in students of the Faculty of Dentistry at the National Autonomous University of Nicaragua–León treated at the multidisciplinary dental clinic (August 2012–February 2013).
Doctor of Dental Surgery thesis, Faculty of Dentistry, National Autonomous University of Nicaragua – León (UNAN-León), León, Nicaragua, **2013**.

Calderón Trejos, N.A.

Effect of 2% chlorhexidine digluconate on the bond strength of a resin-based luting agent in natural premolar teeth.

Master's thesis, Faculty of Dentistry, National Autonomous University of Nicaragua – León (UNAN-León), León, Nicaragua, **2021**.

Professional Development

- Ongoing participation in continuing education in restorative dentistry, digital dentistry, dental education, and faculty development.