

## Curriculum Vitae

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**Name:** Simon Wai Ming Young, DDS, MD, PhD, FACS

**Present Title:** Associate Professor (with Tenure),  
Director of Research

**Address:** Katz Department of Oral and Maxillofacial Surgery  
The University of Texas Health Science Center at  
Houston, School of Dentistry  
7500 Cambridge St., Suite 6510  
Houston, Texas 77054  
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**Citizenship:** Both Canadian and US Citizenship

**Undergraduate Education:**

09/96 – 06/99 University of Toronto, Toronto, Ontario, Canada  
(B.Sc. in Human Biology, 1999)

**Graduate Education:**

09/99 – 06/03 Faculty of Dentistry, University of Toronto, Toronto,  
Ontario, Canada  
(D.D.S., *Honors*, 2003)

08/03 – 05/08 Rice University, Department of Bioengineering,  
Houston, Texas, USA  
(Ph.D. in Bioengineering, 2008)

08/08 – 05/11 The University of Texas Medical School at Houston,  
Houston, Texas, USA  
(M.D., 2011)

**Postgraduate Training:**

07/03 – 06/13 The University of Texas Health Science Center at  
Houston, Houston, Texas, USA  
(Oral & Maxillofacial Surgery Residency, 2013)

07/13 – 07/15 Harvard University, School of Engineering and  
Applied Sciences, Cambridge, Massachusetts, USA  
(Postdoctoral Research Fellow in Immuno-  
Engineering)

**Academic & Administrative Appointments:**

- 05/22 – Present            The University of Texas MD Anderson Cancer Center, Houston, Texas, USA (Visiting Research Collaborator in Head & Neck Surgery)
- 09/21 – Present            The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Associate Professor with Tenure in Oral & Maxillofacial Surgery)
- 06/21 – Present            The University of Texas MD Anderson Cancer Center, Houston, Texas, USA (Adjunct Assistant Professor in Head & Neck Surgery)
- 08/17 – Present            Baylor College of Medicine, Houston, Texas, USA (Adjunct Member of the Dan L. Duncan Cancer Center – Cancer Cell and Gene Therapy Program)
- 11/16 – Present            Baylor College of Medicine, Houston, Texas, USA (Adjunct Assistant Professor in Otolaryngology – Head & Neck Surgery)
- 07/16 – Present            Rice University, Houston, Texas, USA (Adjunct Assistant Professor in Bioengineering)
- 09/15 – 07/21              The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Assistant Professor in Oral & Maxillofacial Surgery)
- 07/13 – 09/15              The University of Texas Health Science Center at Houston, School of Dentistry, Houston, Texas, USA (Clinical Assistant Professor in Oral & Maxillofacial Surgery)

**Hospital Appointments:**

- 09/15 – Present            Houston Methodist Hospital - Texas Medical Center, Active Staff
- 09/13 – Present            Ben Taub General Hospital – Harris Health System, Active Staff
- 09/13 – Present            Lyndon B. Johnson General Hospital – Harris Health System, Active Staff

09/13 – Present                      Memorial Hermann Hospital - Texas Medical Center,  
Active Staff

**Licensure:**

09/13 – Present                      Texas Medical Board

07/03 – Present                      Royal College of Dental Surgeons of Ontario

07/03 – Present                      Texas State Board of Dental Examiners

**Certification:**

11/16 – Present                      Collaborative Institutional Training Initiative (CITI)  
Human Subjects Research Training

03/15 – Present                      Diplomate of the American Board of Oral and  
Maxillofacial Surgery

06/13 – Present                      Pediatric Advanced Life Support Provider

11/10 – 11/14                        Advanced Trauma Life Support Provider

07/03 – Present                      Advanced Cardiac Life Support Instructor

07/03 – Present                      Basic Life Support Provider

**Professional Organizations / Committees of these Organizations:**

*International:*

2020 – 2022                        International Academy of Oral Oncology, World  
Congress Scientific Planning Committee

2015 – Present                      International Association for Dental Research /  
American Association for Dental Research,  
**President of the Oral & Maxillofacial Surgery  
Group (Term 2022 – 2023)**

*National:*

2019 – Present                      American College of Surgeons

2017 – Present                      American Academy of Craniomaxillofacial Surgeons

2015 – Present                      American Association of Cancer Research

2010 – Present	Alpha Omega Alpha Medical Honor Society
2008 – 2018	American Medical Association
2006 – Present	American Dental Education Association
2006 – 2019	American Dental Association
2003 – Present	American Association of Oral and Maxillofacial Surgeons
2003 – Present	Omicron Kappa Upsilon Dental Honor Society
2003 – 2015	Canadian Dental Association

*Regional/State:*

2013 – Present	Texas Society of Oral and Maxillofacial Surgeons
2011 – 2019	Texas Dental Association
2003 – 2015	Ontario Dental Association

*Local/Institutional:*

2013 – Present	Houston Society of Oral and Maxillofacial Surgeons
2013 – 2016	Greater Houston Dental Society

**Honors and Awards:**

*International:*

2019	Oral Abstract Scientific Presentation Award, 101 <sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons Held in Conjunction with the Dutch Association of Oral and Maxillofacial Surgeons (NVMKA). <b>Role:</b> Presenter and Research Primary Investigator.
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*National:*

2020	Faculty Educator Development Award, The American Association of Oral and Maxillofacial Surgeons and The Oral and Maxillofacial Surgery Foundation
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- 2018 Oral Abstract Scientific Presentation Award, 100<sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons. **Role:** Presenter and Research Primary Investigator.
- 2013 Pathway to Independence Award (K99/R00), National Institute of Dental and Craniofacial Research
- 2010 Alpha Omega Alpha National Medical Honor Society
- 2007 Research Summit Scholarship, The Oral and Maxillofacial Surgery Foundation
- 2007 Oral Abstract Scientific Presentation Award, 89<sup>th</sup> Annual Meeting of the American Association of Oral and Maxillofacial Surgeons. **Role:** Presenter and Graduate Student/Resident.
- 2004 Research Fellowship, The Oral and Maxillofacial Surgery Foundation

*Local/Institutional:*

- 2022 Dean's Excellence Award in the Scholarship of Discovery, UTHealth Houston School of Dentistry
- 2018 Oral Abstract Scientific Presentation 1<sup>st</sup> Place Award, UTHealth McGovern Medical School, House Staff Research Day. **Role:** Mentor and Research Primary Investigator.
- 2015 Rising STARS (Science and Technology Acquisition and Retention) Award, University of Texas System
- 2011 Hershel M. Rich Invention Award, Rice University
- 2003 Omicron Kappa Upsilon National Dental Honor Society
- 2003 The J.G. Bourassa Cup Proficiency Award, Faculty of Dentistry, University of Toronto
- 2003 The American Association of Oral and Maxillofacial Surgeons Dental Student/Implant Student Award, Faculty of Dentistry, University of Toronto

2002	The Dr. John A. Sherman Memorial Award, Faculty of Dentistry, University of Toronto
2002	The Ontario Dental Association Proficiency Award, Faculty of Dentistry, University of Toronto
2001	S.G. Bridgeman Prize, Faculty of Dentistry, University of Toronto
2001	The Wallace Seccombe Memorial Scholarship in Preventive Dentistry, Faculty of Dentistry, University of Toronto
2000	The Royal College of Dental Surgeons Scholarship in Basic Sciences, Faculty of Dentistry, University of Toronto
1999	Roche Diagnostics Award, Cellular Pathology Summer Student Program, University of Toronto
1999	Dean's List, Trinity College, University of Toronto
1999	Life Sciences Award, Department of Laboratory Medicine and Pathobiology, University of Toronto
1998	Trinity College Scholarship, Trinity College, University of Toronto
1998	Dean's List, Trinity College, University of Toronto
1997	Trinity College Scholarship, Trinity College, University of Toronto
1997	Dean's List, Trinity College, University of Toronto
1996	Trinity College Scholarship, Trinity College, University of Toronto

**Editorial Positions/Editorial Boards:**

2021 – Present	Review Editor on the Editorial Board for the Open Access journal <i>JADA Foundational Science</i> , Published by Elsevier and the American Dental Association.
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- 2021 – Present Review Editor on the Editorial Board for the Open Access journal *Frontiers in Physiology – Craniofacial Biology and Dental Research*, Published by Frontiers Media S.A.
- 2020 – Present Review Editor on the Editorial Board for the Open Access journal *Frontiers in Aging – Molecular Mechanisms of Aging*, Published by Frontiers Media S.A.
- 2019 Co-Editor of Textbook Entitled *Regenerative Strategies for Maxillary and Mandibular Reconstruction: A Practical Guide*, Published by Springer International Publishing, 2019.
- 2018 – Present Series Co-Editor of the *Techniques in Dentistry and Oral & Maxillofacial Surgery* Video Platform by Springer Nature Video. (<https://link.springer.com/video>)

**Reviewer:**

- 2023 – Present Manuscript Reviewer for *Journal of Biomedical Materials Research Part B: Applied Biomaterials*
- 2022 – Present Manuscript Reviewer for *PLOS One*
- 2022 – Present Manuscript Reviewer for *Journal of Oncology*
- 2022 – Present Manuscript Reviewer for *Frontiers in Physiology - Craniofacial Biology and Dental Research*
- 2021 – Present Manuscript Reviewer for *Frontiers in Immunology – Cancer Immunity and Immunotherapy*
- 2021 – Present Manuscript Reviewer for *Frontiers in Cell and Developmental Biology – Molecular and Cellular Oncology*
- 2021 – Present Manuscript Reviewer for *Regenerative Biomaterials*
- 2021 – Present Manuscript Reviewer for *Scientific Reports*
- 2021 – Present Manuscript Reviewer for *Oral & Maxillofacial Surgery*
- 2020 – Present Manuscript Reviewer for *Annals of Biomedical Engineering*
- 2019 – Present Manuscript Reviewer for *International Journal of Oral & Maxillofacial Implants*
- 2019 – Present Manuscript Reviewer for *Nature Biomedical Engineering*

- 2019 – Present Manuscript Reviewer for *The Journal of Dental Research*
- 2019 – Present Manuscript Reviewer for *The Journal of the California Dental Association*
- 2017 – Present Manuscript Reviewer for *Oncotarget*
- 2017 – Present Manuscript Reviewer for *Molecular Therapy*
- 2017 – Present Manuscript Reviewer for *Advanced Healthcare Materials*
- 2017 – Present Manuscript Reviewer for *Oncoimmunology*
- 2016 – Present Manuscript Reviewer for *Oral Oncology*
- 2016 – Present Manuscript Reviewer for *International Journal of Nanomedicine*
- 2016 – Present Manuscript Reviewer for *Journal of Oral Implantology*
- 2009 – Present Manuscript Reviewer for *The British Journal of Oral and Maxillofacial Surgery*
- 2008 – Present Manuscript Reviewer for *The Journal of Oral and Maxillofacial Surgery*
- 2005 – Present Manuscript Reviewer for *Tissue Engineering*

**Consultantships:**

- 2022 – Present Consultant, Amend Surgical Inc.
- 2020 – Present Clinical Advisory Board Member, Proteocyte Diagnostics Inc.

**Service on International Grant Review Panels, Study Sections, Advisory Panels, and Committees:**

- 2022 – Present Grant Application Reviewer, The São Paulo Research Foundation, FAPESP
- 2022 Conference Abstract Reviewer for the 8<sup>th</sup> World Congress, International Academy of Oral Oncology
- 2020 – Present Grant Application Reviewer, US-Israel Binational Science Foundation



2017 – Present      Conference Abstract Reviewer, Oral & Maxillofacial Surgery Scientific Group, International Association for Dental Research Meetings

2017 – Present      Grant Application Reviewer, Medical Research Council, UK

2015 – Present      Grant Reviewer, Cancer Research UK

**Service on National Grant Review Panels, Study Sections, Advisory Panels, and Committees:**

March 2023          Ad Hoc Reviewer, National Institutes of Health Center for Scientific Review, Therapeutic Immune Regulation Special Emphasis Panel, ZRG1 TIR-W (01)

2022 – Present      Grant Application Reviewer, Scientific and Clinical Review Committee, Osteo Science Foundation

Feb 2022            Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research Special Grants Review Committee, NIDCR 2022/05 Council DSR

2021 – Present      **Chair**, Research Subcommittee, Vanguard Committee for Strategic Planning, Osteo Science Foundation

Sept 2021          Conference Oral Abstract Judge, American Association of Oral and Maxillofacial Surgeons, 103<sup>rd</sup> AAOMS Annual Meeting, Nashville TN

Feb 2021            Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research New Investigator R03 Application Review Panel, NIDCR ZDE1 NB 12

March 2020          Ad Hoc Reviewer, National Institute of Dental and Craniofacial Research Fellowship Application Review Panel, NIDCR ZDE1 NB 21

2019 – Present      Member, Vanguard Committee for Strategic Planning, Osteo Science Foundation

2017 – Present      Conference Abstract Reviewer, Oral & Maxillofacial Surgery Scientific Group, American Association for Dental Research Meetings

- Oct 2018 Ad hoc Reviewer, National Institutes of Health Center for Scientific Review, Special Emphasis Panel in Immune System Plasticity in Dental, Oral and Craniofacial Diseases, ZRG1 MOSS K57
- Feb 2016 Early Career Ad Hoc Reviewer, National Institutes of Health Center for Scientific Review, Oral, Dental, and Craniofacial Sciences Study Section, 201605 ODCS

**Committees:**

**Service on International Committees:**

- 2022 – present **President**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)
- 2021 – 2022 **President-Elect**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)
- 2020 – 2021 **Vice-President**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)
- March 2020 **Council Representative**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)
- July 2018 **Council Representative**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)
- 2017 – Present **Group Program Chair**, Oral & Maxillofacial Surgery Group, International Association for Dental Research (IADR)

**Service on Texas Medical Center Committees:**

Baylor College of Medicine, Department of Otolaryngology – Head & Neck Surgery Committees:

- 2016 Resident Research Project Review Committee

**Service on The University of Texas Health Science Center at Houston, Committees:**

- 2021 – Present UTHealth Research Conflicts of Interest Committee
- 2021 – Present UTHealth Center for Laboratory Animal Medicine and Care Financial Oversight Committee

**Service on The University of Texas Health Science Center at Houston,  
Graduate School of Biomedical Sciences and Medical School Committees:**

2017 – Present      Applicant Interviewer for UTHHealth Medical School /  
Graduate School of Biomedical Sciences MD/PhD program

**Service on The University of Texas Health Science Center at Houston,  
School of Dentistry Committees:**

The University of Texas Health Science Center at Houston, School of Dentistry  
Committees:

2022 – Present      Faculty Search Committee, Department of Diagnostic and  
Biomedical Sciences

2021 – Present      **Chair**, IRB Protocol Submission Scientific Review  
Committee

2021 – Present      Appointment, Promotion, and Tenure Committee

2020 – 2022          Associate Dean for Research Search Committee

2017 – Present      Craniofacial Center Vision Committee

2017 – Present      Research Operations Sub-committee

2017 – Present      Clinical Research Sub-committee

2016                  Senior Faculty Search Committee, Department of Diagnostic  
and Biomedical Sciences

2015 – 2021          Credentialing Committee

2015 – Present      Research Committee

The University of Texas Health Science Center at Houston, School of Dentistry,  
Katz Department of Oral & Maxillofacial Surgery Committees:

2022                  **Chair**, Oral & Maxillofacial Surgery Faculty Instructor Search  
Committee

2017 – Present      Non-categorical Intern Admissions Committee

2015 – Present      Resident Admissions Committee

2015 – Present      Graduate Education Committee

**Community Service:**

Mar 2023	Free Tooth Extraction Day, Katy Periodontology & Oral Surgery, 8 hours, (Surgeon Participant)
Apr 2022	Free Tooth Extraction Day, College Station Oral & Maxillofacial Surgery, 8 hours, (Surgeon Participant)
Sep 2021	Free Tooth Extraction Day, Summerwood Oral & Maxillofacial Surgery, 8 hours, (Surgeon Participant)
Feb 2021	Free Tooth Extraction Day, College Station Oral & Maxillofacial Surgery, 8 hours, (Surgeon Participant)
Nov 2019	Houston Food Bank, 4 hours, (Participant)
Jan 2019	Free Tooth Extraction Day, Cypress Oral & Maxillofacial Surgery, 8 hours, (Surgeon Participant)
Sep 2017	UTHealth School of Dentistry Mobile Clinic for Hurricane Harvey Victims, 8 hours, (Faculty Participant)
Sep 2005	The University of Texas at Houston Dental Branch Mobile Clinic for Hurricane Katrina Victims, 8 hours, (Resident Participant)
Nov 2002	Winter Clinic, Academy of General Dentistry, (Participant)
Feb 2002	International Dental Students Conference, (Participant)
June 1998	Dental Clinic, Mount Sinai Hospital, Toronto, Canada, (Participant for 3 months)

**Sponsorship of Postdoctoral Fellows:**

2016 – 2018	Fellow: Stacey Piotrowski Title of project: <i>Development of a preclinical model of compromised maxillofacial wound healing</i> Year of completion: 2018
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**Membership on Thesis and Supervisory Committees:**

The University of Texas Health Science Center at Houston, School of Public Health:

2022 – 2023 Graduate Student Advisory Committee  
Student: Jayson Workman  
Title of project: *Risk of Dysplastic Cell Progression to Oral Cancer Determined by AI-Imaging Based Algorithm*  
Degree sought: Master of Public Health  
Year of completion: 2023  
Role: Practicum Preceptor/Site Supervisor

2022 – 2023 Graduate Student Thesis Advisory Committee  
Student: Urvi Mehta  
Title of project: *Quality of Life Assessment in Patients After Inferior Alveolar and/or Lingual Nerve Resection - A Cross Sectional Study*  
Degree sought: Master of Public Health  
Year of completion: 2023  
Role: Committee Member

The University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences:

2022 – Present Graduate Student Thesis Advisory Committee  
Student: Gemalene Sunga  
Title of project: *Combining Tumor Microenvironment-Modulating Hydrogels with Radiotherapy for Local Immunotherapy*  
Role: **Committee Chair**

2022 – Present Graduate Student Thesis Advisory Committee  
Student: Andrea Hernandez  
Title of project: *Design and Characterization of a Novel Tumor Microenvironment-Modulating Hydrogel for Local Immunotherapy*  
Role: **Committee Chair**

2019 – Present Graduate Student Thesis Advisory Committee  
Student: Caitlynn Barrows  
Title of project: *Design and Characterization of an In Vitro 3-Dimensional Salivary Gland Model of Sjogren's Syndrome*  
Degree sought: Doctor of Philosophy (PhD)  
Role: **Committee Chair**

Rice University, Department of Chemistry:

2016 – 2020 Graduate Student Thesis Advisory Committee  
Student: David Leach  
Title of project: *Multidomain Peptide Biomaterials for Enhanced Delivery of Anti-Cancer Immunotherapies*  
Degree sought: Doctor of Philosophy (PhD)  
Year of completion: 2020  
Role: Committee Member

The University of Texas Health Science Center at Houston, School of Dentistry, Department of Orthodontics:

2017 – 2019 Graduate Student Thesis Advisory Committee  
Student: Marian McCarty  
Title of project: *The impact of print orientation and UV curing duration on the dimensional accuracy of 3D-printed clear orthodontic aligners*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2019  
Role: Committee Member

2016 – 2018 Graduate Student Thesis Advisory Committee  
Student: Wyatt Loflin  
Title of project: *The effect of print layer thickness on the American Board of Orthodontics (ABO) Cast-Radiograph Evaluations (CRE) grading of 3D-printed models*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2018  
Role: Committee Member

2015 – 2017 Graduate Student Thesis Advisory Committee  
Student: Christian Favero  
Title of project: *A comparison of 3D-printed models using a desktop stereolithography printer to commercially fabricated 3D-printed models*  
Degree sought: Master of Science in Dentistry (MSD)  
Year of completion: 2017  
Role: Committee Member

**Faculty Mentor:**

The University of Texas Health Science Center at Houston, School of Dentistry:

2022 – Present Faculty Mentor for Dr. Lauren Hum  
Katz Department of Oral & Maxillofacial Surgery

**Student Advising:**

The University of Texas MD Anderson Cancer Center UTHealth Houston  
Graduate School of Biomedical Sciences:

- 2022 – Present      Primary Graduate Student Research Advisor  
Student: Gemalene Sunga  
Title of project: *Combining Tumor Microenvironment-Modulating Hydrogels with Radiotherapy for Local Immunotherapy*
- 2022 – Present      Primary Graduate Student Research Advisor  
Student: Andrea Hernandez  
Title of project: *Design and Characterization of a Novel Tumor Microenvironment-Modulating Hydrogel for Local Immunotherapy*
- 2019 – Present      Primary Graduate Student Research Advisor  
Student: Caitlynn Barrows  
Title of project: *Design and Characterization of an In Vitro 3-Dimensional Salivary Gland Avatar to Model Human Disease*

The University of Texas Health Science Center at Houston, School of Dentistry,  
Katz Department of Oral & Maxillofacial Surgery:

- 2022 – Present      Faculty Mentor for Resident Research Project  
OMS resident: Omar Ahmed, PGY1  
Title of project: *Immediate Repair of a Transected Trigeminal Nerve and Post-Traumatic Trigeminal Neuropathic Pain*
- 2021 – Present      Faculty Mentor for Resident Research Project  
OMS resident: Nicholas Oda, PGY2  
Title of project: *Outcomes of Implants Placed in Tissue-Engineered Mandibular Reconstruction*
- 2020 – Present      Faculty Mentor for Resident Research Project  
OMS resident: Bristol Galbraith, PGY2  
Title of project: *OMFS Imaging Algorithm for Odontogenic Pain in the Emergency Department*
- 2020 – Present      Faculty Mentor for Resident Research Project  
OMS resident: David Chubb, PGY3  
Title of project: *Evaluating Healing of ACell vs. Split Thickness Skin Grafts at Free Flap Donor Sites*

- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: Nicholas Branham, PGY3  
Title of project: *Management of Linear Morphea*
- 2020 – Present Faculty Mentor for Resident Research Project  
OMS resident: James Park, PGY3  
Title of project: *Analysis of Idiopathic Unilateral Condylar Hyperplasia*
- 2019 – Present Faculty Mentor for Resident Research Project  
OMS resident: Marcus Gillon, PGY4  
Title of project: *Efficacy of cellular bone allograft for maxillofacial reconstruction*
- 2019 – Present Faculty Mentor for Resident Research Project  
OMS resident: Audra Boehm, PGY4  
Title of project: *Characterization of Bone Tissue Engineering Materials in the Compromised Maxillofacial Wound Healing Environment*
- 2018 – Present Faculty Mentor for Resident Research Project  
OMS resident: Victoria Manon, PGY5  
Title of project: *A multi-site, prospective study of the safety and effectiveness of immediate inferior alveolar nerve allograft reconstruction with ablation of the mandible for malignant pathology*
- 2018 – 2021 Faculty Mentor for Resident Research Project  
OMS resident: Jack Hua, (Graduated July 2021)  
Title of project: *A multi-site, prospective study of the safety and efficacy of the PRV111 chemotherapy patch for subjects with oral squamous cell carcinoma*
- 2017 – Present Faculty Mentor for Resident Research Project  
OMS resident: Steven Balandran, PGY6  
Title of project: *Evaluation of topical 5-fluorouracil as adjunct therapy for keratocystic odontogenic tumors*
- 2017 – Present Faculty Mentor for Resident Research Project  
OMS resident: Andrew Bhagyam, PGY6  
Title of project: *Multidomain peptide hydrogels for peripheral nerve regeneration in the craniofacial complex*



2017 – 2021 Faculty Mentor for Resident Research Project  
OMS resident: Huy Tran (Graduated July 2021)  
Title of project: *Acquisition and Experimental Use of Salivary Gland Tissue for Tissue Engineering*

2017 – 2018 Faculty Mentor for Resident Research Project  
OMS resident: Marcus Couey (graduated in July 2018)  
Title of project: *Robust Anti-Tumor Immunity Is Transient and Limited by Immune Escape in a Novel Model of HPV-Associated Head and Neck Cancer*

The University of Texas Health Science Center at Houston, School of Dentistry, Student Academic Advisor Program:

2022 – Present Faculty Mentor for Undergraduate Dental Students  
DS2 (Class of '26): Brendan Moxley and Zachary Taylor

2020 – Present Faculty Mentor for Undergraduate Dental Students  
DS4 (Class of '24): David Drake and Jacqueline Duquemin

2019 – 2023 Faculty Mentor for Undergraduate Dental Students  
(Class of '23): Suhyung Kim and Esmeralda Diaz

2017 – 2021 Faculty Mentor for Undergraduate Dental Students  
(Class of '21): Anthony Osborne and Luan Huynh

2016 – 2020 Faculty Mentor for Undergraduate Dental Students  
(Class of '20): Alexander Cai and Ian Castell

The University of Texas Health Science Center at Houston, School of Dentistry, ADEA Academic Dental Careers Fellowship Program:

2017 – 2018 OMS Faculty Co-Mentor in the ADEA Academic Dental Careers Fellowship Program  
Dental student: Victoria Manon, DS4 (now graduated)  
Title of project: *Evaluation of the success rates of immediately placed implants: A 5 year retrospective pilot study at UTSD-Houston*

The University of Texas Health Science Center at Houston, School of Dentistry, Summer Student Research Program:

2023 Faculty Mentor for Summer Research Program  
Student researcher: Shawn Nguyen, incoming DS1 student  
Title of project: *Investigating the Efficacy of Cytokine-Loaded Immunomodulatory Biomaterials for Cancer Immunotherapy*

- 2022 Faculty Mentor for Summer Research Program  
Student researcher: David McNeill, UC Santa Barbara  
Title of project: *Characterizing Tissue Engineered Salivary Avatars as Replacements for Patients with Xerostomia*
- 2021 Faculty Mentor for Summer Research Program  
Student researcher: Skylar Mai, incoming DS1 student  
Title of project: *Bioinformatic Analysis of Tissue-Specific ACE2 Receptor Expression Utilizing Global Databases*
- 2020 Faculty Mentor for Summer Research Program  
Student researcher: Jianfei Xue, incoming DS1 student  
Title of project: *Single-cell RNA Sequencing Bioinformatic Analysis of the Tumor Immune Microenvironment*
- 2019 Faculty Mentor for Summer Research Program  
Student researcher: Alyson Yee, DS student (graduated)  
Title of project: *IFN-1 Pathway Gene Expression in MOC1 Cells Treated with CDN*
- 2019 Faculty Mentor for Summer Research Program  
Student researcher: Nicholas Tipton, incoming DS1 student  
Title of project: *Comparative Drug Efficacy Study to Enhance Cancer Immunotherapy*
- 2018 Faculty Mentor for Summer Research Program  
Student researcher: Adrianna Jones, Rice University  
Title of project: *Characterization of Murine Oral Cancer Cells in a Multidomain Peptide Gel*
- 2016 Faculty Mentor for Summer Research Program  
Student researcher: Alex Cai, DS student (graduated)  
Title of project: *Determining Metastatic Potential, E6 and E7 Gene Expression in a Novel Preclinical Model of HPV-Associated Head and Neck Squamous Cell Carcinoma*

**Current Teaching responsibilities:**

The University of Texas Health Science Center at Houston, School of Dentistry:

*Didactic courses:*

- 2018 – Present Course: DBPG 4003C (Thursday Clinico-Pathologic Conference)  
Role: Course lecturer to OMS residents

- 2016 – Present      Course: DBPG 4001C (Tuesday OMS Seminar)  
Role: Organizer of intern resident project presentation and evaluation sessions
- 2016 – Present      Course: DENS 2804 (Essentials of Medicine I)  
Role: Course lecturer to DS2 dental undergraduate students
- 2016                    Course: DBPG 4002A (Orthognathic Surgery Seminar)  
Role: Course lecturer to OMS residents
- 2016 – Present      Course: DBPG 1009 (Interdisciplinary Research Seminar I)  
Role: Course lecturer to orthodontic residents
- 2016 – Present      Course: DBPG 1011 (Interdisciplinary Research Seminar III)  
Role: Course lecturer to orthodontic residents

*Preclinical courses:*

- 2018 – Present      Course: DHBS 3209 (Emergencies in the Dental Office)  
Role: Course lecturer to DH2 dental hygiene students
- 2018                    Course: DENS 4541 (Emergency Procedures II)  
Role: Course lecturer / hands-on instructor for DS4 dental undergraduate students
- 2017 – Present      Course: DENF 3541 (Emergencies in the Dental Office)  
Role: Course lecturer to DS3 dental undergraduate students
- 2017                    Course: CLIN 3016 (Clinical Simulation I)  
Role: Course lecturer / group facilitator for DS3 dental undergraduate students

*Clinical courses:*

- 2015 – Present      Course: CLIN 3007 (Oral Surgery Clinic)  
Role: OMS faculty instructor for DS3 dental undergraduate students in LBJ Oral Surgery Clinic and Operating Room
- 2013 – Present      Course: unlisted  
Role: One-on-one training of OMS residents in the clinic setting, on hospital rounds, and in the operating room while performing cases at LBJ General Hospital, 1 day per week
- 2005 – Present      Course: Advanced Cardiac Life Support (ACLS)  
Role: Lecturer and hands-on instructor for course participants

The University of Texas Health Science Center at Houston, Graduate School of Biomedical Sciences:

*Didactic courses:*

- 2018, 2021            Course: GS21 1611 (Topics in Molecular Medicine)  
Role: Course lecturer to MD/PhD graduate students
- 2019                    Course: GS04 1751 (Design and Delivery of Advanced  
Research Seminar)  
Role: Course lecturer to PhD graduate students

**Past Teaching responsibilities:**

University of Toronto, Undergraduate Program:

- 2001 – 2002            Tutor, Saturday Program for Inner City High School Students
- 2001                    Student Mentor, Summer Mentorship Program in the Health  
Sciences

Rice University:

- 2005 – 2006            Teaching Assistant, Physiology Laboratory (BIOE 320) and  
Biomaterials Engineering (BIOE 531)
- 2004 – 2008            Graduate Student Mentor, Dental Student Summer  
Research Program, The University of Texas Houston Health  
Science Center at Houston
- 2004 – 2005            Teaching Assistant, Systems Physiology (BIOE 322)

The University of Texas Health Science Center at Houston, School of Dentistry,  
Department of Oral & Maxillofacial Surgery:

- 2009 – 2011            Resident Instructor, History Taking and Physical Diagnosis  
Course for Predoctoral Dental Students
- 2003 – 2013            Formal Teaching of Resident Peers
- OMFS Department Clinical Pathological  
Conference – 2 presentations
  - OMFS Department Introduction to Medical  
Management of Patients – 1 presentation

- OMFS Department Bi-Monthly Morbidity & Mortality Conference – 7 presentations
- OMFS Department Case-Based Learning Conference – 2 presentations
- Multi-disciplinary Facial Trauma Conference – 1 presentation

**Clinical Service Responsibilities:**

2015 – Present      Staff surgeon in Department of Oral & Maxillofacial Surgery at Lyndon B. Johnson General Hospital, responsible for supervising patient care in the clinic, wards, and the operating room.

**Current Grant Support:**

2023 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE031872, *Semiconductor Biomaterials to Speed Bone Healing: A Bioengineering-Driven Approach***, PI: Venu Varanasi, Inclusive years: 2023-2028, Role: Co-investigator, Funding amount: \$725,400 (\$465,000 direct costs + \$260,400 indirect costs)

2022 – Present      **National Institute of Dental and Craniofacial Research, Research Supplement to Promote Diversity in Health-Related Research Grant # R01 DE030140-02S1, *SynerGel: A Novel Tumor Microenvironment-Modulating Hydrogel for Local Immunotherapy***, PI: Simon Young, Mentee: Andrea Hernandez, Inclusive years: 2022-2026, Funding amount: \$287,625 (\$193,835 direct costs + \$93,709 indirect costs)

2021 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE030140, *SynerGel: A Novel Tumor Microenvironment-Modulating Hydrogel for Local Immunotherapy***, PI: Simon Young, Inclusive years: 2021-2026, Funding amount: \$2,765,800 (\$2,158,298 direct costs + \$607,502 indirect costs)

2021 – Present      **KLS Martin Group, *Semiconductor Biomaterials as Implant Coatings for Rapid CMF Bone Regeneration***, PI: Venu Varanasi. Inclusive years: 2021-2024, Role: Co-Investigator, Funding amount: \$101,142 (\$77,802 direct costs + \$23,340 indirect costs).

- 2020 – Present      **Osteo Science Foundation, Peter Geistlich Research Award, *Use of a Compromised Maxillofacial Wound Healing Model for Characterization of Bone Graft Materials***, PIs: Simon Young, F. Kurtis Kasper, Paulo Coelho, Lukasz Witek. Inclusive years: 2020-2023 NCE, Role: Co-PI, Funding amount: \$100,000 (\$90,000 direct costs + \$10,000 indirect costs).
- 2018 – Present      **National Institute of Dental and Craniofacial Research, Grant # U01 DE028233, *Targeting the Immunosuppressive Tumor Microenvironment to Enhance Efficacy of Radiotherapy and Immunoradiotherapy for Oral Cancer***, PI: Andrew Sikora, Inclusive years: 2018-2023, Role: Co-Investigator, Funding amount: \$179,370 (\$116,475 direct costs + \$62,895 indirect costs)
- 2017 – Present      **National Institute of Dental and Craniofacial Research, Grant # R01 DE021798, *Self-assembling Peptide Nanofiber Hydrogels for Nerve Regeneration***, PI: Jeffrey Hartgerink, Inclusive years: 2017-2022 NCE, Role: Co-Investigator, Funding amount: \$577,500 (\$375,000 direct costs + \$202,500 indirect costs)

**Completed Grant Support:**

- 2023                      **Proteocyte Diagnostics Inc., Clinical Study Support, *Evaluation of Oral Potentially Malignant Disorders (OPMDs) with Straticyte™***, PI: Simon Young, Inclusive years: 2023, Funding amount: \$25,515 (\$19,627 direct costs + \$5,888 indirect costs).
- 2020 – 2022              **Oral & Maxillofacial Surgery Foundation, Research Support grant, *Development of Surgically Implantable Minor Salivary Gland-Based Constructs for Treatment of Xerostomia***, PIs: Cindy Farach-Carson and Simon Young, Inclusive years: 2020-2022, Role: co-PI, Funding amount: \$75,000.
- 2020 – 2022              **Osteo Science Foundation, Peter Geistlich Research Award, *Antioxidant Implant Coatings for Rapid Bone and Vascular Regeneration in Compromised Wound Healing***, PI: Venu Varanasi. Inclusive years: 2020-2022, Role: Co-Investigator, Funding amount: \$40,000 (\$36,000 direct costs + \$4,000 indirect costs).

- 2016 – 2021 **National Institute of Dental and Craniofacial Research, Grant # R01 DE024747, *Tunable Nanolayer-Polymer Composite Patches for Cell-Free CMF Repair***, PI: Paula Hammond, Inclusive years: 2016-2021, Role: Co-Investigator, Funding amount: \$1,065,930 (\$693,739 direct costs + \$372,191 indirect costs).
- 2019 – 2021 **The University of Texas Health Science Center at Houston Center for Clinical Trials and Translational Sciences TL1 Program, Grant #TL1 TR003169, *Identifying The Role of Immune Cells on Loss of Salivary Function in Sjogren's Syndrome***, PIs: Simon Young and Mary C. Farach-Carson, Inclusive years: 2019-2021, Role: Co-Mentor (Graduate student training grant), Funding amount: \$95,554 (direct costs)
- 2019 – 2021 **National Institute of Dental and Craniofacial Research, Grant # R56 DE027964, *Printing and Regenerating Fractured Bone Using Antioxidant Materials***, PI: Venu Varanasi, Inclusive years: 2019-2021, Role: Co-Investigator, Funding amount: \$132,175 (\$85,000 direct costs + \$46,892 indirect costs)
- 2018 – 2021 **National Institute of Dental and Craniofacial Research, Grant # R21 DE027794, *STINGel Immunotherapy for Treatment-Resistant Head and Neck Cancer***, PI: Simon Young, Inclusive years: 2018-2021, Role: PI, Funding amount: \$263,553 (\$171,138 direct costs + \$92,415 indirect costs)
- 2018 – 2020 **Privo Corporation, Clinical Trial Support, *Phase I/II, Open-Label, Single-Arm Safety, Tolerability, Anti-Tumor Effects, Systemic Exposure, and Device Technical Effects of PRV111 (Cisplatin Transmucosal System) in Subjects with Oral Squamous Cell Carcinoma***, PI: Simon Young, Inclusive years: 2018-2021, Role: PI, Funding amount: \$57,684 (\$44,372 direct costs + \$13,312 indirect costs).
- 2018 – 2019 **Oral & Maxillofacial Surgery Foundation, Research Support grant, *Exploring Mechanisms to Improve STINGel Immunotherapy in Head and Neck Cancer***, PIs: Simon Young and Jeffrey Hartgerink, Inclusive years: 2018-2019, Role: co-PI, Funding amount: \$37,500.

- 2016 – 2018      **Osteo Science Foundation, Peter Geistlich Research Award, *Development of a Compromised Maxillofacial Wound Healing Model for Bone Graft Evaluation***, PIs: Simon Young and F. Kurtis Kasper, Inclusive years: 2016-2018, Role: Co-PI, Funding amount: \$100,000 (\$90,000 direct costs + \$10,000 indirect costs).
- 2015 – 2018      **University of Texas System, Rising STARS (Science and Technology Acquisition and Retention) Award, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: Simon Young, Inclusive years: 2015-2018, Role: PI, Funding amount: \$250,000.
- 2015 – 2018      **National Institute of Dental and Craniofacial Research, Grant # R00 DE023577, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: Simon Young, Inclusive years: 2015-2018, Role: Primary Investigator, Funding amount: \$750,000 (\$345,000 direct costs + \$405,000 indirect costs).
- 2013 – 2015      **National Institute of Dental and Craniofacial Research, Grant # K99 DE023577, *The Use of Novel Implantable Cancer Vaccines for the Treatment of Oral Cancer***, PI: David Mooney, Inclusive years: 2013-2015, Role: Postdoctoral Research Fellow, Funding amount to Harvard University: \$213,794 (\$197,957 direct costs + \$15,837 indirect costs).
- 2004              **Oral & Maxillofacial Surgery Foundation, Research Fellowship, *Promotion of Alveolar Bone Healing with Biopolymers***, PI: Antonios Mikos, Inclusive years: 2004-2005, Role: research fellow, Funding amount to Rice University: \$40,000.

**Presentations:**

*International:*

Conference, symposia, or workshop organizer:

- 2022              *8<sup>th</sup> World Congress of the International Academy of Oral Oncology*, Chicago, IL, USA, 6/23/22 – 6/26/22  
Role: Conference Symposium Moderator and Member of the Conference Scientific Committee



- 2022      *Advances and Innovations in Surgery: OMFS, ENT Head & Neck, and Facial Plastics*, Medical Educator Consortium Global Meetings, San Diego, CA, USA, 5/13/22  
Role: Conference Moderator and Member of the Conference Steering Committee
- 2021      *Treating the Tumor Microenvironment in Head and Neck Cancer*, Annual Meeting of the International Association for Dental Research, Virtual Format, 7/22/21  
Role: IADR Symposium Organizer and Program Chair
- 2019      *Advances in Head and Neck Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/21/19  
Role: IADR Symposium Organizer and Program Chair
- 2019      *Advances in 3D Planning and Printing in Maxillofacial Surgery*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/20/19  
Role: IADR Symposium Organizer and Program Chair
- 2019      *Advances in Maxillofacial Tissue Engineering*, Annual Meeting of the International Association for Dental Research, Vancouver, Canada, 6/19/19  
Role: IADR Symposium Organizer and Program Chair
- 2018      *Evolving Trends in Head and Neck Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, London, United Kingdom, 7/27/18  
Role: IADR Symposium Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2022      *Cranio-maxillofacial Bone Tissue Engineering from Bench to OR: Developing Multiple Strategies Along the Translational Pathway*, Society for Biomaterials, Dental/Craniofacial Biomaterials SIG Webinar Series, Virtual Format, 10/26/22, 1.0 hour.
- 2022      *From Tissue Engineering to Immunoengineering: Applying Materials for In Situ Cell Programming to Cancer Immunotherapy*, Advances in Tissue Engineering 29<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/13/2022, 1 hour.

- 2022 *Biomaterials for Craniomaxillofacial Bone Regeneration: From Preclinical Models to Current Clinical Practice*, 2022 Regenerative Medicine Essentials Course & World Stem Cell Summit, Virtual Format, 6/6/22, 0.5 hours.
- 2022 *Advances and Innovations in the Diagnosis and Management of Oral Dysplasia*, Advances and Innovations in Surgery: OMFS, ENT Head & Neck, and Facial Plastics Conference, San Diego, CA, USA, 5/13/22, 0.5 hours.
- 2022 *Novel Biomaterials-Based Approaches for Head and Neck Cancer Immunotherapy*, Advances and Innovations in Surgery: OMFS, ENT Head & Neck, and Facial Plastics Conference, San Diego, CA, USA, 5/13/22, 0.5 hours.
- 2021 *From Tissue Engineering to Immunoengineering: Applying Materials for In Situ Cell Programming to Cancer Immunotherapy*, Advances in Tissue Engineering 28<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/14/2021, 1 hour.
- 2021 *Biomaterial Platform Technologies for Enhancing Cancer Immunotherapy*, Annual Meeting of the International Association for Dental Research, Virtual Format, 7/22/21, 0.5 hours.
- 2019 *Injectable MDP Hydrogels for Localized Delivery of Cancer Immunotherapeutics*, 4<sup>th</sup> New Horizons in Immunotherapy for Head and Neck Cancer, Newberg, OR, 8/17/19, 0.5 hours.
- 2018 *Biomaterials-based Cancer Immunotherapy Platforms*, Annual Meeting of the International Association for Dental Research, London, United Kingdom, 7/27/18, 0.5 hours.
- 2016 *Novel Regenerative Medicine Strategies for Maxillofacial Reconstruction*, American Association of Blood Banks, AABB/TERMIS-Americas Joint Program: Regenerative Medicine Therapies for Wounded Soldiers, Orlando, FL, 10/24/16, 1 hour.
- 2016 *Applying Tissue Engineering Strategies to Cancer Immunotherapy*, Advances in Tissue Engineering 24<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/11/2016, 1 hour.

2006                      *Tissue Engineering in Oral and Maxillofacial Surgery, Advances in Tissue Engineering 14<sup>th</sup> Annual Short Course, Rice University, Houston, TX, 8/19/2006, 1 hour.*

Service as a panelist or discussant at professional meetings:

July 2021                *Oral & Maxillofacial Surgery / Bone-Muscle Crosstalk and its Involvement in Craniofacial Bone Defect repair, International Association for Dental Research Annual Meeting, Virtual Format, 7/24/21, 1.5 hours.*  
Role: Oral Session Chair

July 2021                *Oral & Maxillofacial Surgery / Next-Generation Advances in OMS Research, International Association for Dental Research Annual Meeting, Virtual Format, 7/21/21, 1.5 hours.*  
Role: Oral Session Chair

June 2019                *Oral & Maxillofacial Surgery / TMJ, Cleft Lip/Palate, and Craniofacial Research, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/21/19, 1.5 hours.*  
Role: Oral Session Chair

June 2019                *Oral & Maxillofacial Surgery / Cancer Research, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/19/19, 1.5 hours.*  
Role: Oral Session Chair

June 2019                *Oral & Maxillofacial Surgery / Wound Healing and Tissue Regeneration, International Association for Dental Research Annual Meeting, Vancouver, Canada, 6/19/19, 1.5 hours.*  
Role: Oral Session Chair

July 2018                *Oral & Maxillofacial Surgery / Cancer Research, International Association for Dental Research Annual Meeting, London, United Kingdom, 7/26/18, 1.5 hours.*  
Role: Oral Session Chair

Continuing education courses presented:

2022                      *From Bench to Bedside: The Evolution of Tissue Engineered Maxillofacial Reconstruction, Osteo Science Foundation Webinar Series, 04/19/22, 1.0 hour.*

2020 *Innovations in Craniomaxillofacial Bone Tissue Engineering*, Osteo Science Foundation Webinar Series “Generations of Regeneration”, 4/24/20 at [www.osteoscience.org](http://www.osteoscience.org), 1.0 hour.

*National:*

Conference, symposia, or workshop organizer:

2023 *Oral & Maxillofacial Surgery Research Collaborative Meeting, co-hosted by The University of Texas Health Science Center at Houston and The University of Pennsylvania*, multi-institutional online research conference at <https://bit.ly/45a9Zsq>, 05/11/23, 2.0 hours  
Role: Meeting Co-organizer and Program Co-Chair

2022 *Oral & Maxillofacial Surgery Research Collaborative Meeting, co-hosted by The University of Texas Health Science Center at Houston and The University of Pennsylvania*, multi-institutional online research conference at <https://bit.ly/43923pC>, 11/17/22, 2.0 hours  
Role: Meeting Co-organizer and Program Co-Chair

2022 *Oral & Maxillofacial Surgery Research Collaborative Meeting, co-hosted by The University of Texas Health Science Center at Houston and The University of Pennsylvania*, multi-institutional online research conference at <https://bit.ly/36NZMsc>, 03/31/22, 1.5 hours  
Role: Meeting Co-organizer and Program Co-Chair

2022 *Advancements in Tissue Engineering for the Regeneration of the Facial Skeleton*, American Association for Dental, Oral, and Craniofacial Research Annual Meeting, Atlanta, USA, 3/23/22  
Role: AADOCR Symposium Organizer and Program Co-Chair

2022 *Advancements in Maxillofacial Surgery – A Patient-Specific Approach*, American Association for Dental, Oral, and Craniofacial Research Annual Meeting, Atlanta, USA, 3/24/22  
Role: AADOCR Symposium Organizer and Program Co-Chair

- 2021 *Oral & Maxillofacial Surgery Research Collaborative Meeting, co-hosted by The University of Texas Health Science Center at Houston and The University of Pennsylvania, multi-institutional online research conference at <https://bit.ly/3FAjhAt>, 11/18/21, 1.5 hours*  
Role: Meeting Co-organizer and Program Co-Chair
- 2018 *Immunotherapeutic Strategies Targeting Head and Neck Cancer, American Association for Dental Research Annual Meeting, Ft. Lauderdale, USA, 3/22/18*  
Role: AADR Symposium Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2023 *Semiconductor Biomaterials for Maxillofacial Bone Regeneration, Annual Meeting of the American Association for Dental, Oral, and Craniofacial Research, Portland, OR, 3/15/23, 0.5 hour.*
- 2022 *Mentoring Aspiring Surgeon-Scientists: Looking Back on a 20-year Journey of Career Development, American College of Surgeons Mentor Program - Grand Rounds, Virtual Format, 02/21/22, 1.0 hour.*
- 2022 *From Bench to Bedside: The Evolution of Tissue Engineered Maxillofacial Reconstruction, Osteo Science Foundation – Regenerative Solutions to Common Problems Meeting, Austin, TX, 02/18/22, 1.0 hour.*
- 2021 *Faculty Section: Mentoring Successful OMSs: Research Mentorship, Annual Meeting of the American Association of Oral and Maxillofacial Surgeons, Nashville, TN, 10/01/21, 0.5 hour.*
- 2020 *Cancer Immunotherapy and Oral & Maxillofacial Surgery, Collaborative OMFS Virtual Inter-Institutional Didactic (COVID) Program, multi-institutional online education program at <https://media.dent.umich.edu/sites/omfscovid/>, 08/13/20, 1.0 hour.*
- 2019 *Biomaterials-based Cancer Immunotherapy Platforms for Intratumoral Delivery of Head and Neck Tumors, TERMIS-AM Annual Meeting, Orlando, FL, 12/02/19, 0.5 hour.*

- 2019 Trauma Clinical Interest Group: *Adaptable Osseous Regenerative Options for CMF Reconstruction*, Annual Meeting of the American Association of Oral and Maxillofacial Surgeons, Boston, MA, 9/19/19, 2 hours.
- 2018 *Biomaterials-based Cancer Vaccine Platforms*, Annual Meeting of the American Association for Dental Research, Ft. Lauderdale, FL, 3/22/18, 1 hour.

Service as a panelist or discussant at professional meetings:

- Mar 2023 *Oral & Maxillofacial Surgery / Targeting Complexity in the Tumor Microenvironment: New Immunotherapy Strategies*, American Association for Dental, Oral, and Craniofacial Research Annual Meeting, Portland, OR, 3/18/23, 1.5 hours.  
Role: Symposium Session Chair
- Mar 2018 *Oral & Maxillofacial Surgery / Research Session 1*, American Association for Dental Research Annual Meeting, Ft. Lauderdale, USA, 3/24/18, 1.5 hours,  
Role: Oral Session Chair

*Regional/State:*

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2022 *Targeted Cancer Therapy*, The 31<sup>st</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/30/22, 1 hour.
- 2019 *Cancer Immunotherapy and Oral & Maxillofacial Surgery – Emerging Concepts for the Contemporary Surgeon*, The 29<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/26/19, 1 hour.
- 2018 *Evolving Trends in Head and Neck Immunotherapy*, The 28<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/28/18, 1 hour.

2015                    *The Role of Growth Factors in Bone Formation*, The 25<sup>th</sup> Annual Edward C. Hinds Symposium on Contemporary Oral and Maxillofacial Surgery, The Houston Society of Oral & Maxillofacial Surgery, Houston, TX, 04/24/15, 0.5 hour.

*Local/Institutional:*

Conference, symposia, or workshop organizer:

June 2023            *A Discussion of Treatment Options When Things Don't Go as Expected: A Case Presentation*, Joint UTHealth Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 06/08/23, 2 hours.  
Role: Study Club Organizer and Program Chair

Mar 2023            UTHealth Center for Craniofacial Research Annual Retreat, Houston, TX, 3/24/23, 1 hour.  
Role: Organizing Committee Member

Jan 2023            *An Update on Current Clinical Trials From a Private Practice Clinical Research Network*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery, Periodontics, and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 1/19/23, 1 hour.  
Role: Study Club Organizer and Program Chair

Apr 2022            UTHealth Center for Craniofacial Research Annual Retreat, Houston, TX, 4/14/22, 1 hour.  
Role: Organizing Committee Member

Feb 2020            *It's All About the Connection: The Team Concept for Dental Implant Therapy*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/13/20, 1 hour.  
Role: Study Club Organizer and Program Chair

Sep 2019            *Risk Assessment for Biological Complications in Implant Dentistry: Bias and Checklists*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 10/10/19, 1 hour.  
Role: Study Club Organizer and Program Chair

- May 2019      *Recognizing Your Own Brand – The Most Important Implant Talk You’ll Ever Hear*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 5/30/19, 1 hour.  
Role: Study Club Organizer and Program Chair
- Feb 2019      *Implant Dentistry: Research and Clinical Practice*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/21/19, 1 hour.  
Role: Study Club Organizer and Program Chair
- Sep 2018      *Enhancing Communication Using a Digital Workflow*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 9/20/18, 1 hour.  
Role: Study Club Organizer and Program Chair
- Apr 2018      *Considerations for Anterior Esthetics*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 4/23/18, 1 hour.  
Role: Study Club Organizer and Program Chair
- Nov 2017      *Are You Guided or Misguided?*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 11/30/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- Aug 2017      *Peri-Implant Health and Complication Management*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 8/24/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- May 2017      *The Predictably Unpredictable Implant*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 5/25/17, 1 hour.  
Role: Study Club Organizer and Program Chair



- Feb 2017      *Revitalize Fixed / Fixed Hybrid Surgical and Restorative Pick Up*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 2/16/17, 1 hour.  
Role: Study Club Organizer and Program Chair
- Nov 2016      *Trends in Digital Dentistry*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 11/17/16, 1 hour.  
Role: Study Club Organizer and Program Chair
- June 2016      *Implant Esthetics: Lessons I Have Learned*, Joint UTHealth/VA Hospital Oral & Maxillofacial Surgery and Prosthodontics Implant Study Club, Quarterly Meeting, Houston, TX, 6/28/16, 1 hour.  
Role: Study Club Organizer and Program Chair

Invited presentations at other universities and at professional meetings, conferences, and workshops:

- 2023      *Biomaterials-Based Platform Technologies for Localized Head and Neck Cancer Immunotherapy*, Clinical Translational Research Forum – The University of Texas Arlington, Arlington, TX, 02/08/23, 1 hour.
- 2023      *Biomaterials-Based Platform Technologies in the Craniomaxillofacial Complex: From Cancer Immunotherapy to Tissue Engineering*, Department of Oral & Maxillofacial Surgery, The University of Alabama Birmingham, Virtual Format, 01/17/23, 1.0 hour.
- 2022      *Biomaterials-Based Platform Technologies in the Craniomaxillofacial Complex: From Cancer Immunotherapy to Tissue Engineering*, Department of Oral Medicine, Harvard School of Dental Medicine, Virtual Format, 11/09/22, 1.0 hour.
- 2022      *From Tissue Engineering to Immunoengineering: Applying Materials for In Situ Cell Programming to Cancer Immunotherapy*, Annual Research Retreat, UTHealth Center for Craniofacial Research, Houston, TX, 04/14/22, 0.5 hour.

- 2020 *Immunotherapy for Head and Neck Cancer: A New Paradigm Using Biomaterials-Based Approaches*, Department of Diagnostic & Biomedical Sciences Seminar Series – University of Texas Health Science Center School of Dentistry at Houston, Houston, TX, 12/14/20, 1 hour.
- 2020 *Innovations in Craniomaxillofacial Tissue Engineering*, North American Strasbourg Osteosynthesis Research Group (S.O.R.G.) Meet the Expert Series – University Hospital University of Texas San Antonio, San Antonio, TX, 11/13/20, 2 hours.
- 2020 *Novel Biomaterials Approaches to Cancer Immunotherapy Development*, Department of Head and Neck Surgery Research Seminar Series – University of Texas MD Anderson Cancer Center, Houston, TX, 10/21/20, 1 hour.
- 2020 *Novel Biomaterials Approaches to Cancer Immunotherapy Development*, Immunology and Microbiology Seminar Series – Baylor College of Medicine, Houston, TX, 09/15/20, 1 hour.
- 2019 *Biomaterials-Based Approaches to Head and Neck Cancer Immunotherapy*, Center for Research and Scholarship – The University of Texas Arlington, Arlington, TX, 11/13/19, 1 hour.
- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Department of Oral and Maxillofacial Surgery – Brooke Army Medical Center Oral and Maxillofacial Surgery Residency Program, San Antonio, TX, 09/04/19, 2 hours.
- 2019 *Clinical and Translational Research Projects in the Department of Oral & Maxillofacial Surgery*, Houston Center of Biomaterials & Biomimetics Dept. Research Series, University of Texas Health Science Center School of Dentistry, Houston, TX, 04/17/19, 1 hour.
- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Thoracic, Head and Neck Cancer Research Seminar – University of Texas MD Anderson Cancer Center, Houston, TX, 02/04/19, 1 hour.

- 2019 *Biomaterials-Based Cancer Immunotherapy Platforms for Head and Neck Cancer*, Department of Bioscience Research Seminar Series – University of Tennessee Health Science Center, Memphis, TN, 01/16/19, 1 hour.
- 2018 *Biomaterials-Based Cancer Immunotherapy Platform Technologies*, Oral & Maxillofacial Surgery Grand Rounds – Mayo Clinic, Rochester, MN, 08/17/18, 1 hour.
- 2018 *Biomaterials-Based Cancer Immunotherapy Platforms*, Otolaryngology Head & Neck Surgery Grand Rounds – Baylor College of Medicine, Houston, TX, 06/07/18, 1 hour.
- 2017 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Oral & Maxillofacial Surgery Service Meeting - Houston Methodist Hospital, Houston, TX, 07/27/17, 30 minutes.
- 2016 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Thoracic, Head and Neck Cancer Research Seminar – University of Texas MD Anderson Cancer Center, Houston, TX, 05/02/16, 1 hour.
- 2016 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Department of Diagnostic & Biomedical Sciences Seminar Series – University of Texas Health Science Center School of Dentistry at Houston, Houston, TX, 02/22/16, 1 hour.
- 2015 *Immunoengineering: Materials-Based Approaches for Enhancing Cancer Immunotherapy*, Head & Neck Cancer Working Group Monthly Seminar, Baylor College of Medicine, Houston, TX, 09/09/15, 0.5 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Department of Oral & Maxillofacial Surgery – University of California San Francisco, San Francisco, CA, 10/20/14, 1 hour.
- 2014 *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Department of Otolaryngology – Baylor College of Medicine, Houston, TX, 10/13/14, 1 hour.

- 2014                    *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Goldman School of Dental Medicine - Boston University, Boston, MA, 9/25/14, 1 hour.
- 2014                    *Applications of Controlled Release Systems in Oral & Maxillofacial Surgery: From Tissue Engineering to Immunotherapy*, Rutgers School of Dental Medicine, Newark, NJ, 9/23/14, 1 hour.
- 2007                    *Tissue Engineering in Oral and Maxillofacial Surgery*, Department of Diagnostic and Biomedical Sciences, University of Texas Dental Branch at Houston, Houston, TX, 11/15/07, 1 hour.
- 2007                    *Tissue Engineering in Oral and Maxillofacial Surgery: Trials and Tribulations*, Houston Society of Oral & Maxillofacial Surgeons, Houston, TX, 2/13/07, 1 hour.

**Publications:**

**H-index:** 27 (4,937 citations by June 2023)

Abstracts (\* = Presenting author):

1. Devkota L\*, Bhavane R, Badachhape AA, Veeramachaneni R, Menon R, Bhandari P, Ghaghada KB, **Young S**, Sikora AG, Annapragada AV: PEGylated Liposomal Doxorubicin Improves Oral Cancer Response to Radio-Immunotherapy. *American Association for Cancer Research Annual Meeting*, Orlando, Florida (April 18, 2023).
2. Yelick P\*, Lee SJ, **Young S**, Zhang W: New Strategies and Animal Models for Craniomaxillofacial Tissue Regeneration. *TERMIS Asia-Pacific Congress*, Jeju, South Korea (October 5-8, 2022).
3. Woernley T\*, Demian NM, **Young S**, Pearl CB, Wong ME: Comparison of Operating Room Time Length with the Use of Virtual Surgical Planning Versus Conventional Treatment of Mandible Fractures. *Military Health System Research Symposium*, Orlando, Florida (September 14, 2022).
4. McGue C\*, Asam KR, Yu G, Thomas CM, Callahan NF, Morlandt AB, **Young S**, Melville JC, Shum JW, Aouizerat BE, Viet CT: Epigenomic and Gene Expression Landscape of Tobacco Use in Oral Squamous Cell Carcinoma. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, New Orleans, Louisiana (September 12-17, 2022).

5. Boudreaux ER\*, Manon VA, Chubb D, Hanna I, Marchena J, Arribas AR, **Young S**, Wong ME, Melville JC: Implant Survival in Tissue-engineered Mandibular Reconstruction. *American Association of Oral & Maxillofacial Surgeons Annual Meeting*, New Orleans, Louisiana (September 12-17, 2022).
6. Awad K\*, Ahuja N, **Young S**, Brotto M, Varanasi V: Bioactive Silicon Oxynitride Coatings and Innovative Nanoparticles as Next-Generation Biomaterials for Rapid Bone Regeneration. *American Society for Bone and Mineral Research Annual Meeting*, Austin, Texas (Sep 9-12, 2022).
7. Hernandez A\*, Dharmaraj N, Sunga G, Rangel R, Sikora AG, **Young S**: Establishing the ROC1 preclinical model of oral cancer to understand location-based differences in the tumor immune microenvironment. *The University of Texas Graduate School of Biomedical Sciences Student Research Day*, Houston, Texas (June 23, 2022).
8. Melville JC\*, Manon VA, **Young S**, Arribas AR, Hanna I, Wong ME: In-Situ Tissue Engineering for the Reconstruction and Dental Rehabilitation of Severely Atrophic Mandibles: A Review of Technique. *American Academy of Craniomaxillofacial Surgeons Annual Meeting*, Jacksonville, Florida (Apr 22-23, 2022).
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11. Ahuja, N\*, Awad K, Yang S, Dong H, Brotto M, Aswath P, **Young S**, Varanasi V: Increasing N/O Ratio in Antioxidant SiONx Coatings Enhances Osteogenic Capacity. *American Association for Dental, Oral, and Craniofacial Research Annual Meeting*, Atlanta, Georgia (Mar 24-26, 2022).
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(\* = Co-senior author)

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3. Hernandez A, Hartgerink JD, **Young S**: Self-assembling peptides as immunomodulatory biomaterials. *Front Bioeng Biotechnol*, 11:1139782, 2023.

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