

STANFORD UNIVERSITY

CURRICULUM VITAE

Updated May 2019

NAME Stanley Yung-Chuan Liu, MD, DDS

POSITION Assistant Professor of Otolaryngology
Stanford University School of Medicine
Co-Director, Sleep Surgery Fellowship

EDUCATION

Date Attended	Institution	Degree, Title	Major
9/25/96 - 6/11/00	Stanford University	B.S.	Biology
8/28/02 - 6/17/07	University of California – San Francisco (UCSF), School of Dentistry	D.D.S.	Dentistry
9/12/07 - 6/10/11	University of California – San Francisco (UCSF), School of Medicine	M.D.	Medicine

ACADEMIC APPOINTMENTS

6/2013 – 6/2014	Clinical Instructor Department of Otolaryngology, Stanford University School of Medicine Stanford, CA, USA
9/2014 – Present	Assistant Professor (Medical Center Line) Department of Otolaryngology, Stanford University School of Medicine Stanford, CA, USA
9/2015 – Present	Preceptor Department of Ophthalmology, Stanford University School of Medicine Stanford, CA, USA

HOSPITAL APPOINTMENTS/AFFILIATIONS

6/2013 – Present	Stanford Hospital and Clinics, Stanford, CA, USA
9/2015 – Present	San Francisco Veterans Affairs Hospital, Palo Alto, CA, USA

CERTIFICATION

4/2018 – Present	Diplomate, American Board of Oral & Maxillofacial Surgery
4/2018 – Present	Candidate, American College of Surgeons

LICENSURE

2010 – Present	California Dental License #59319
2012 – Present	California Medical License # A122495

HONORS AND AWARDS

- 2004 Howard Hughes Medical Institute – NIH Research Scholarship (Cloister Program)
- 2009 Advanced Training Clinical Research Fellowship, UCSF School of Medicine,
- 2010 Lightowler Scholarship, UCSF School of Medicine,
- 2011 Research Summit Scholarship , Oral Maxillofacial Surgery Foundation
- 2012 Khosla International Scholarship, UCSF Department of Oral & Maxillofacial Surgery
- 2017 Biodesign Faculty Fellowship, School of Medicine, Stanford University
- 2018 Visiting Professor of Otolaryngology, National Cheng Kung University, Taiwan
- 2018 Visiting Professor of Otolaryngology, Pok Oi Hospital, Hong Kong

ADMINISTRATIVE APPOINTMENT

9/2014 – Present Co-Director, Sleep Surgery Fellowship, Department of Otolaryngology
Stanford University, Stanford, CA, USA

PEER REVIEWED ORIGINAL RESEARCH

h-index = 11 (Academic Otolaryngology National Means: Assistant 4.6 ± 0.2, Associate 8.1 ± 0.4)

1. Terris DJ, Hanasono MM, Liu YC.

Reliability of the Muller Maneuver and its Association with Sleep-disordered Breathing. Laryngoscope. 2000 Nov; 110(11):1819-23.
2. Eliez S, Barnea-Goraly N, Schmitt E, Liu Y, Reiss AL.

Increased Basal Ganglia Volumes in Velo-cardio-facial syndrome (deletion 22q11.2): Biol Psychiatry. 2002 Jul; 1;52(1): 68-70.
3. Schmidt BL, Pickering V, Liu S, Quang P, Dolan J, Connelly ST, Jordan RCK.

Peripheral Endothelin A Receptor Antagonism Attenuates Carcinoma-induced Pain. Eur J Pain. 2007; 11:406-414.
4. Dillon JK, Liu SY, Patel CM, Schmidt BL.

Identifying Risk Factors for Postoperative Cardiovascular and Respiratory Complications after Major Oral Cancer Surgery. Head Neck. 2011 Jan; 33(1):112-6.
5. Robert RC, Liu S, Patel C, Gonzalez M.

Advancements in Office-Based Anesthesia in Oral and Maxillofacial Surgery. Atlas Oral Maxillofacial Surg Clin N Am 2013; Vol 21:2.
6. Chang, FCS, Chen YC, Huang F, Liu S, Chen ZC, Lo LJ, Chen PKT, Huang CS, Chen YR.

Management of Class III Malocclusion in Patients with Osteogenesis Imperfecta. Journal of Taiwan Society of Plastic Surgery. 2013 Sept; 22(3) 252-9.
7. Yang J, Liu SY, Hossaini-Zadeh M, Pogrel MA.

Brain abscess potentially secondary to odontogenic infection: case report. Oral Surg Oral Med Oral Pathol Oral Radiol. 2014 Feb;117(2):e108-11.

8. Camacho M, Zaghi S, Certal V, Abdullatif J, Means C, Acevedo J, Liu S, Brietzke SE, Kushida CA, Capasso R.

Inferior Turbinate classification system, grades 1 to 4: Development and validation study. Laryngoscope. 2015 Feb;125(2):296-302.
9. Liu SYC, Huon LK, Powell NB, Riley R, Cho HG, Torre C, Capasso R.

Lateral Pharyngeal Wall Tension after Maxillomandibular Advancement for Obstructive Sleep Apnea is a Marker for Surgical Success: Observations from Drug-induced Sleep Endoscopy. J Oral Maxillofac Surg. 2015 Aug;73(8):1575-82
10. Camacho M, Liu SY, Certal V, Capasso R, Powell N, Riley R.

Large Maxillomandibular Advancements for Obstructive Sleep Apnea Syndrome: An Operative Technique. J. Craniomaxillofac Surg. 2015 Sept;43(7):1113-8
11. Lan MC, Liu SY, Lan MY, Modi R, Capasso R.

Lateral pharyngeal wall collapse is associated with hypoxemia in obstructive sleep apnea. Laryngoscope. 2015 Oct;125(10):2408-12
12. Liu SY, Huon LK, Iwasaki T, Yoon A, Riley R, Powell N, Torre C, Capasso R.

Efficacy of Maxillomandibular Advancement Examined with Drug-induced Sleep Endoscopy and Computational Fluid Dynamics Airflow Modeling. Otolaryngology Head Neck Surg. 2016 Jan;154(1):189-95
13. Torre C, Camacho M, Huon LK, Liu SY, Capasso R.

Epiglottis collapse in Adult Obstructive Sleep Apnea: A systematic Review. Laryngoscope. 2016 Feb;126(2):515-23
14. Camacho M, Dunn B, Torre C, Sasaki J, Gonzales R, Liu SY, Chan D, Certal V, Cable B.B.

Supraglottoplasty for Laryngomalacia with Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis. Laryngoscope. 2016 May;126(5):1246-55
15. Volner K, Dunn B, Chang ET, Song SA, Liu SY, Brietzke S, O'Connor P, Camacho M.

Transpalatal Advancement Pharyngoplasty for Obstructive Sleep Apnea: a Systematic Review and Meta-Analysis. Eur Arch Otorhinolaryngology. June 11, 2016.
16. Song S, Wei J, Buttram J, Tolisano A, Chang E, Liu SY, Certal V, Camacho M.

Hyoid Surgery Alone for Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis. Laryngoscope. 2016 Jul; 126(7):1702-8
17. Vaezaefshar R, Liu SY, Sidell D.

Inferior Alveolar Nerve Hemangioma. Laryngoscope. 2016 Sep;126(9):2168-70.
18. Song SA, Chang ET, Certal V, Do MD, Zaghi S, Liu SY, Capasso RC, Camacho M.

Genial Tubercle Advancement and Genioplasty for Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis. Laryngoscope. Aug 22, 2016.

19. Lee WJ, Hwang DH, Liu SY, Kim SJ.
Subtypes of Maxillomandibular Advancement Surgery for Patients with Obstructive Sleep Apnea. J. Craniofacial Surgery. Sept 9, 2016
20. Gouveia C, Qureshi H, Kern R, Liu SYC, Capasso R.
An Assessment of Online Information Related to Surgical Obstructive Sleep Apnea Treatment. Sleep Science and Practice. Accepted November 2016.
21. Liu SY, Huon LK, Shih TT, Chen YJ, Lo MT, Wang PC
Dynamic Upper Airway Collapse Observed from Sleep MRI: BMI-matched Severe and Mild OSA Patients. Eur Arch Otorhinolaryngol. 2016 Nov;273(11):4021-4026
22. Liu SY, Huon LK, Lo MT, Chang YC, Chen YJ, Shih TT, Capasso R, Wang PC.
Static Craniofacial Measurements and Dynamic Airway Collapse Patterns Associated with Severe Obstructive Sleep Apnea : A Sleep MRI Study. Clin Otolaryngol. 273:4021-4026. Nov 2016.
23. Huon LK, Liu SY, Camacho M, Guilleminault C.
The Association Between ophthalmologic diseases and obstructive sleep apnea: A Systematic Review and Meta-Analysis. Sleep Breath. 2016 Dec;20(4):1145-1154
24. Camacho M, Dunn B, Torre C, Sasaki J, Gonzales R, Liu SY, Chan D, Certal V, Cable B.B.
Laser Assisted Uvulopalatoplasty (LAUP) for Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis. Sleep. Accepted January 2017.
25. Chang ET, Fernandez-Salvador C, Giambo J, Nesbitt B, Liu SY, Capasso R, Kushida C, Camacho M.
Tongue retaining devices for obstructive sleep apnea: A systematic review and meta-analysis. American Journal of Otolaryngology. Accepted January 2017.
26. Gouveia C, Cramer JD, Liu SY, Capasso R.
Sleep Surgery in the Elderly: Lessons from the National Surgical Quality Improvement Program. Otolaryngology-Head & Neck Surgery. Accepted January 2017.
27. Liu SY, Huon LK, Zaghi S, Torre C.
An Accurate Method of Designing and Performing Individual-Specific Genioglossus Advancement. Otolaryngol Head Neck Surg. 2017 Jan;156(1) 194-197.
28. Gouveia C, Kern R, Liu SY, Capasso R.
The State of Academic Sleep Surgery: A Survey of United States Residency and Fellowship Programs. Laryngoscope. Accepted Feb 7th, 2017.
29. Gouveia CJ, Qureshi HA, Kern RC , Liu SY, Capasso R.
An assessment of online information related to surgical obstructive sleep apnea treatment. Sleep Science and Practice 2017 1:6

30. **Liu SY**, Leno MB, Chen CT, Liao HT
Comparison of Functional Outcomes and Patient-reported Satisfaction Between Titanium and Absorbable Plates and Screws for Fixation of Mandibular Fractures: a One-year Prospective Study. *J Craniomaxillofac Surg.* 2017 May;45(5):704-709
31. Torre C, Capasso R, Zaghi S, Williams R, **Liu SY**.
High incidence of posterior nasal cavity obstruction in obstructive sleep apnea patients. *Sleep Science and Practice* 2017 1:8.
32. **Liu SY**, Lee PJ, Awad M, Riley R, Zaghi S.
Corrective Nasal Surgery After Maxillomandibular Advancement for Obstructive Sleep Apnea: Experience from 379 Cases. *Otolaryngol Head Neck Surg.* 2017 Jul;157(1) 156-159
33. **Liu SY**, Riley RW.
Continuing the Original Stanford Sleep Surgery Protocol from Upper Airway Reconstruction to Upper Airway Stimulation: Our First Successful Case. *J Oral Maxillofac Surg.* 2017 Jul;75(7):1514-1518
34. **Liu SY**, Guilleminault C, Huon LK, Yoon A.
Distraction Osteogenesis Maxillary Expansion (DOME) for Adult Obstructive Sleep Apnea Patients with High Arched Palate. *Otolaryngol Head Neck Surg.* 2017 Aug;157(2):345-348
35. Hong SO, Chen YF, Jung J, Kwon YD, **Liu SY**
Hypoglossal Nerve Stimulation for Treatment of Obstructive Sleep Apnea: A Primer for Oral and Maxillofacial Surgeons. *Maxillofac Plast Reconstr Surg.* 2017 Sep 25;39(1):27.
36. Yoon AJ, Zaghi S, Weitzman R, Ha S, Law CS, Guilleminault C, **Liu SY**.
Towards a Functional Definition of Ankyloglossia: Validating Current Grading Scales for Lingual Frenulum Length and Tongue Mobility in 1052 Subjects. *Sleep and Breathing.* 2017 Sept; 21(3):767-775.
37. Yoon A, Zaghi S, Ha S, Law C, Guilleminault C, **Liu SY**
Ankyloglossia as a risk factor for maxillary hypoplasia and soft palate elongation: a functional – morphological study. *Orthod Craniofac Res.* 2017 Nov;20(4):237-244.
38. Torre C, **Liu SY**, Kushida C, Nekhendzy V, Huon LK, Capasso R.
Impact of Continuous Positive Airway Pressure in Patients with Obstructive Sleep Apnea During Drug Induced Sleep Endoscopy. *Clin Otolaryngol.* 2017 Dec;42(6):1218-1223
39. **Liu SY**, Huon LK, Ruoff C, Riley RW, Strohl KP, Peng Z.
Restoration of Sleep Architecture after Maxillomandibular Advancement: Success Beyond the Apnea–Hypopnea Index. *Int J Oral Maxillofac Surg.* 2017 Dec;46(12):1533-1538
40. Noller NW, Guilleminault C, Gouveia CJ, Mack D, Vivian C, Abdulaatif J, Mangili S, **Liu SY**, Zaghi S, Camacho M.

Mandibular Advancement for Adult Obstructive Sleep Apnea: A Systematic Review and Meta-analysis. *J Craniomaxillofac Surg*. 2017 Dec;45(12):2035-2040

41. Torre C, Zaghi S, Camacho M, Capasso R, Liu SY

Hypopharyngeal Evaluation in Obstructive Sleep Apnea with Awake Flexible Laryngoscopy: Validation and Updates to Cormack-Lehane and Modified Cormack-Lehane Scoring Systems. *Clinical Otolaryngology*. Accepted Dec 26th 2017.

42. Gouveia C, Zaghi S, Awad M, Camacho M, Liu SYC, Capasso R, Kern RC

Publication Trends and Levels of Evidence in Obstructive Sleep Apnea Literature. *Laryngoscope*. Accepted Jan 4th 2018.

43. Singh SK, Liu S, Capasso R, Kern RC, Gouveia CJ

Youtube as a Source of Information for Obstructive Sleep Apnea. *Am J Otolaryngol*. Accepted Mar 19th 2018.

44. Scapuccin M, Schneider L, Rashid N, Zaghi S, Rosa T, Tsuo YA, Liu S, Lazarini P, Capasso R, Ruoff C.

Integrating the Divided Nasal Cannula Into Routine Polysomnography to Assess Nasal Cycle: Feasibility and Effect on Outcomes. *J Clin Sleep Med*. 2018 Apr 15;14(4):641-650. doi: 10.5664/jcsm.7062.

45. Liu SY, Sidell D, Huon LK, Torre C

“Split to Save” : Accessing Mandibular Lesions Using Sagittal Split Osteotomy with Virtual Surgical Planning. *Ear Nose Throat J*. 2018 Mar;97(3):91-96

46. Chen YF, Ko EC, Yoon A, Zaghi S, Riley R, Liu, SYC

Optimizing Mandibular Sagittal Split of Large Maxillomandibular Advancement for Obstructive Sleep Apnea: Patient and Surgical Factors. *J Craniomaxillofac Surg*. Accepted April 2018.

47. Chang TI, Lee UK, Zeidler MR, Liu SY, Polanco JC, Friedlander AH

Severity of Obstructive Sleep Apnea is Positively Associated with the Presence of Carotid Artery Atheromas. *J Oral Maxillofac Surg*. 2019 Feb 13. S0278-2391(19)30141-7. doi: 10.1016/j.joms.2019.02.005.

48. Gouveia CJ, Zaghi S, Camacho M, Liu SYC, Capasso R, Kern RC

Publication Trends and Levels of Evidence in Obstructive Sleep Apnea Literature. *Laryngoscope*. 2018 Sept;128(9):2193-2199

49. Singh SK, Gu D, Capasso R, Liu S, Gouveia CJ

Clinical Trials in Obstructive Sleep Apnea: Recognizing Trends and Future Opportunities. *Laryngoscope*. Accepted Oct 3, 2018.

50. Scapuccin M, Thamboo A, Rashid N, Aguiar T, Zaghi S, Liu S, Lazarin P, Capasso R

Transsphenoidal Pituitary Surgery Effects on Obstructive Sleep apnea in patients with Acromegaly: a Systematic Review and Meta-Analysis. *J Otolaryngol ENT Res.* 2018;10(6):306–310. DOI: 10.15406/joentr.2018.10.00368.

51. Wang M, Liu SY, Zhou B, Li Y, Cui S, Huang Q
Effect of Nasal and Sinus Surgery in Patients With and Without Obstructive Sleep Apnea. *Acta Otolaryngol.* 2019 Feb 26:1-6. doi: 10.1080/00016489.2019.1575523.
52. Green KK, Kent DT, D’Agostino M, Hoff PT, Lin HS, Soose RJ, Gillespie MB, Yaremchuk KL, Carrasco-Llatas M, Woodson BT, Jacobowitz O, Thaler ER, Barrera JE, Capasso RC, Liu SY, Hsia J, Mann D, Meraj TS, Waxman JA, Kezirian EJ
Drug-induced Sleep Endoscopy and Surgical Outcomes: A Multicenter Cohort Study. *Laryngoscope.* 2019 Mar;129(3):761-770. doi: 10.1002/lary.27655.
53. Williams R, Patel V, Chen YF, Tangbumrungham N, Thamboo A, Most SP, Nayak JV, Liu SY
The Upper Airway Nasal Complex: Structural Contribution to Persistent Nasal Obstruction. *Otolaryngology Head Neck Surg.* Accepted Feb. 2019
54. Abdelwad M, Yoon A, Okland T, Poomkonsarn S, Gouveia C, Liu SY
Impact of Distraction Osteogenesis Maxillary Expansion (DOME) on Internal Nasal Valve in Obstructive Sleep Apnea. *Otolaryngology Head Neck Surg.* Accepted Mar. 2019

BOOK CHAPTERS

1. Stanley Y.C. Liu, Phoebe Goode, Janice Lee.
Surgical Care of the Hemifacial Microsomia Patient. *Current Therapy in Oral and Maxillofacial Surgery*, Edited by Bhageri, Bell and Khan. Saunders Elsevier, St. Louis, Missouri, 2011. Page 828-834.
2. Brian Bast, Stanley Y.C. Liu.
Anterior Mandible Fractures. *Atlas of Oral and Maxillofacial Surgery*, Edited by Tiwana and Kademani. Saunders Elsevier, St. Louis, Missouri, 2015. Page 680-687.
3. Stanley Y.C. Liu, Nelson B. Powell, Robert W. Riley.
Algorithm for Multilevel Treatment, the Riley, Powell, and Liu Stanford Experience. *Sleep Apnea and Snoring (Surgical and Non-surgical Therapy)* Edited by Michael Friedman, Ofer Jacobowitz
4. Stanley Y.C. Liu, Nelson B. Powell, Robert W. Riley.
Maxillofacial Techniques in Obstructive Sleep Apnea. *Sleep Apnea and Snoring (Surgical and Non-surgical Therapy) Edition 2* Edited by Michael Friedman, Ofer Jacobowitz
5. Stanley Y.C. Liu, Audrey Yoon, Christian Guilleminault
Maxillary Distraction Osteogenesis with Palatal Implants
Sleep Apnea and Snoring (Surgical and Non-surgical Therapy) Edition 2 Edited by Michael Friedman, Ofer Jacobowitz
6. Stanley Y.C. Liu, Christian Guilleminault, Audrey Yoon

Distraction Osteogenesis with Maxillary Expansion (DOME) for Adult OSA. Current Concepts in Sleep Surgery, Edition 1, Edited by Nico de Vries – In Press

7. Liu SY, Awad M, Riley R, Capasso R

The Role of the Revised Stanford Protocol in Today's Precision Medicine. Sleep Med Clin. 2019 Mar;14(1):99-107. doi: 10.1016/j.jsmc.2018.10.013.

8. Stanley Y.C. Liu

Sleep Surgery: From Reconstruction to Restoration and Re-education. Atlas Oral Maxillofac Surg Clin North Am. 2019 Mar;27(1):xi. doi: 10.1016/j.cxom.2018.12.001.

9. Gupta RJ, Kademani D, Liu SY

Upper Airway (Hypoglossal Nerve) Stimulation for Treatment of Obstructive Sleep Apnea. Atlas Oral Maxillofac Surg Clin North Am. 2019 Mar;27(1):53-58. doi: 10.1016/j.cxom.2018.11.004.

10. Liu SY, Awad M, Riley RW.

Maxillomandibular Advancement: Contemporary Approach at Stanford. Atlas Oral Maxillofac Surg Clin North Am. 2019 Mar;27(1):29-36. doi: 10.1016/j.cxom.2018.11.011.

11. Awad M, Gouveia C, Capasso R, Liu SY

Tonsillectomy and Pharyngoplasty : Tissue Preserving Techniques. Atlas Oral Maxillofac Surg Clin North Am. 2019 Mar;27(1):17-22. doi: 10.1016/j.cxom.2018.11.005.

12. Liu SY, Wayne Riley R, Pogrel MA, Guilleminault C

Sleep Surgery in the Era of Precision Medicine. Atlas Oral Maxillofac Surg Clin North Am. 2019 Mar;27(1):1-5. doi: 10.1016/j.cxom.2018.11.012.

BOOKS

1. Sleep Surgery.

Atlas of the Oral and Maxillofacial Surgery Clinics. Volume 27. March 2019. Elsevier.

NON-PEER REVIEWED ARTICLES

1. The California Journal of Oral & Facial Surgery: Let's Slice and DISE: Drug-induced Sedation Endoscopy for Dynamic Airway Evaluation in Patients with Obstructive Sleep Apnea. Vol 17, issue 1, Spring 2015

DIGITAL PUBLICATIONS

2. ENT Today: Hypopharyngeal Approaches to Obstructive Sleep Apnea
<http://www.enttoday.org/article/hypopharyngeal-approaches-obstructive-sleep-apnea/3/> Nov 16th 2016
3. SCOPE, Stanford Medicine: When is snoring worth worrying about? A Q&A with a Stanford sleep surgeon

<http://scopeblog.stanford.edu/2016/12/28/when-is-snoring-worth-worrying-about-a-ga-with-a-stanford-sleep-surgeon/> Dec 28th 2016

EDITORIAL SERVICE

Ad Hoc Reviewer

2014 – present	Sleep
2014 – present	Otolaryngology – Head & Neck Surgery
2015 – present	Sleep Medicine
2015 – present	JAMA – Facial Plastic Surgery
2016 – present	Angle Orthodontist
2016 – present	Sleep Science and Practice
2017 – present	Plos ONE
2017 – present	Clinical Otolaryngology
2019 – Present	Clinical Sleep Medicine

RESEARCH AWARDS AND GRANTS

2002 - 03	Dept. Oral and Maxillofacial Surgery, UCSF: Schmidt, BL (PI) The Peripheral Mechanisms of Oral Cancer Pain -- Developing a mouse model of human oral cancer pain. (Funding: T35 DE 07103-26) Role: Student Researcher
2004 - 05	Howard Hughes Medical Institute/ National Cancer Institute: Barrett, JC (PI) Analysis of mammalian silencing information regulator (SIRT) proteins during adipogenesis. (Funding: Howard Hughes Medical Institute) Role: Howard Hughes Medical Student Scholar
2016 – 17	SPG Neurostimulation in Cluster Patients Clinical Trial Identifier: NCT02510729 Sub-Principal Investigator, Stanford University Hypothesis: Stimulation of the SPG at low frequencies (20 Hz) is believed to cause a physiological parasympathetic upregulation which increases mean velocity in middle cerebral artery and diameter of the superficial temporal artery.

UNIVERSITY ADMINISTRATIVE SERVICE

Department of Otolaryngology

2015 – 2016	Grand Rounds Committee	Member
2016 – 2017	Resident Research Symposium	Member
2016 – present	Resident Clinical Competency Committee	Member

SERVICE TO PROFESSIONAL ORGANIZATIONS

Membership

2007 – present	American Association of Oral and Maxillofacial Surgery
2014 – present	American Academy of Otolaryngology
2014 – present	International Society of Sleep Surgery
2015 – present	World Association of Sleep Medicine / World Congress of Sleep
2015 – present	American Academy of Sleep Medicine

Committee Service

2016 – 2018	Sleep Disorders Committee American Academy of Otolaryngology	Member
2016 – present	History and Archives American Academy of Otolaryngology	Member
2018 – present	Sleep Disorders Committee American Academy of Otolaryngology	Consultant Member

Leadership Roles

2018 – present	North American Strasbourg Osteosynthesis Research Group	Faculty
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PRESENTATIONS

National and Regional Meetings

01/2015	Sleep Medicine Conference, School of Medicine, Stanford, CA A Junior Surgeon’s Approach to Facial Skeletal Surgery for OSA
10/2015	Dept. of Otolaryngology, Northwestern University, Chicago, IL Grand Rounds: Skeletal Surgery for Obstructive Sleep Apnea in the Era of Precision Medicine
03/07/16	Sleep and Dreams, Stanford University, Stanford, CA Sleep and Dreams: A Surgical Perspective
04/08/16	Dept. of Otolaryngology, Kaiser Permanente Northern California, Oakland, CA Grand Rounds: Surgical Management of Obstructive Sleep Apnea
05/23/16	Sleep and Dreams, Stanford University, Stanford, CA Sleep and Dreams: from Student to Surgeon
06/22/16	Dept. of Otolaryngology, University of California – San Francisco, San Francisco, CA Grand Rounds: From Phased to Precision: An Update to the Stanford Sleep Surgery Protocol
09/2016	American Academy of Otolaryngology Annual Meeting, San Diego, CA <ol style="list-style-type: none"> 1. Sleep Apnea Surgery: A to Z (Instructional course) 2. Assessment and Treatment of Hypopharyngeal Obstruction in OSA (Mini-seminar) 3. A Novel Technique for Adult Maxillary Expansion using Micro-implants Mentored Presentations: <ol style="list-style-type: none"> 1. Sleep Surgery in the Elderly: Lessons from the NSQIP Database (Chris Gouveia, MD) 2. The Current State of Academic Sleep Surgery in the United States (Chris Gouveia, MD)

3. Impact of Adenotonsillectomy on Co-morbid Pediatric ADHD and OSA (Anne Huon, MD)
 4. Corrective Nasal Surgery after MMA: Experience from 385 Cases (Michael Awad, MD)
- 10/20/16 American College of Surgeons Clinical Congress, Washington, DC
Predictors of Surgical Success for Obstructive Sleep Apnea (Panelist)
- 02/04/17 Course in Clinical Polysomnography and Sleep Medicine, The School of Sleep Medicine, Inc., Palo Alto, CA
Sleep Surgery at Stanford: Coming Full Circle
- 3/3-4/17 2nd Academy of Applied Myofunctional Science Congress, Chicago, IL
Reconstruction, Restoration, Re-education: Revitalizing Sleep Surgery
- 03/05/17 Sleep and Dreams, Stanford University, Stanford, CA
What Can Giraffes and Elephants Teach us about Sleep Surgery?
- 04/05/17 Step Up to Introductory and Advanced Sleep Dentistry Continuum, Columbus, OH
Reconstruction, Restoration, Re-education: An Approach to Sleep Surgery
- 05/04/17 American Society of Dental Anesthesiology: 2017 Annual Scientific Session, Fort Lauderdale, FL
1. Let's "Slice and DISE": Drug-induced Sleep Endoscopy
2. When Sleep Surgery Meets DISE: Hypoglossal Nerve Stimulation
- 07/22/17 Mini-Sleep Residency, University of Pacific, San Francisco, CA
Towards a Patient-Centered Approach in Sleep Surgery
- 09/23/17 California Sleep Society, 10th Annual Education Symposium, Burlingame, CA
Contemporary Sleep Surgery Protocol: Updates with Maxillary Expansion, MMA, and Hypoglossal nerve stimulation
- 10/13/17 Division of Sleep Medicine, Stanford University School of Medicine, Stanford, CA
Grand Rounds: Precision Sleep Surgery: Reconstruction, Restoration, and Re-education
- 11/17/17 Head and Neck Surgical Associates, Portland, Oregon
Past, Present, to Precision: Designer Sleep Surgery
- 11/20/17 **Grand Rounds**, Dept. of Anesthesia, Stanford University School of Medicine, Stanford, CA
Frankenstein@200: Breathing & Beauty with Virtual Surgical Planning

- 2/12/18 Pursuit Study Club, Mountain View, California
- Past, Present, Precision: Evolution of the Stanford Sleep Surgery Protocol
- 2/24/18 Advanced Practices in Sleep Medicine (University of California, Davis), Las Vegas, Nevada
1. Decision-making in Sleep Surgery: Beyond the Anatomy
 2. How to Manage Pitfalls in Sleep Apnea Surgery
- 3/7/18 Sleep and Dreams, Stanford University, Stanford, CA
- Surgery for Obstructive Sleep Apnea: Lessons Learned from Anthropology and the Giant Panda
- 5/14/18 Sleep and Dreams, Stanford University, Stanford, CA
- The Stanford Sleep and Dreams: Sleep Surgery*
- 6/23/18 53rd Annual Colonel Burke Memorial Dental Symposium, Monterey, CA
- Designing the Airway for Better Sleep
- 7/20/18 Common Problems in the ENT Patient, CE, Stanford Health Care, Stanford, CA
- Sleep Apnea and Medical-Surgical Interventions
- 9/15/18 Mini-Sleep Residency, University of Pacific, San Francisco, CA
- Sleep Surgery: Decision with Precision
- 9/22/18 Pediatric Dental Sleep Medicine Symposium: An Interdisciplinary Team Approach, Tufts University, Boston
- Sleep Surgery : What did We Learn from Kids?
- 10/8-9/18 American Academy of Otolaryngology Annual Meeting, Atlanta, GA
1. What's New in OSA Management in 2018: Pros and Cons: Part 1 (Panelist: Pro DISE)
 2. What's New in OSA Management in 2018: Pros and Cons: Part 2 (Panelist: Pro Skeletal Surgery)
- Mentored Presentations
1. DOME for the Treatment of OSA (Tyler Okland, MD)
 2. Maxillary Skeletal Parameters Associated with Persistent Nasal Obstruction (Michael Awad, MD)
 3. Is Narrow Maxilla Associated with Complete Concentric Collapse? (Eric Thuler, MD)
- 10/13/18 2018 Head and Neck Surgery Symposium – Kaiser Permanente Southern California, Fashion Island, California

1. Advances in Obstructive Sleep Apnea (OSA) Diagnosis and Surgical Management part 1: Diagnosis
 2. Advances in Obstructive Sleep Apnea (OSA) Diagnosis and Surgical Management part 12: Treatment Options
- 10/25/18 Invited lecture, Santa Clara Dental Society, San Jose, California
- Designing the Airway for Better Sleep: What I Learned from Maxillary Expansion
- 11/2/18 Sleep Medicine Rounds, Stanford University, California
- Designing the Airway for Better Sleep: From Reconstruction to Restoration and Re-education
- 1/14/19 41st Annual Marx Oral & Maxillofacial Pathology Reconstruction Course, San Francisco, California
- Sleep Surgery in the Era of Precision Medicine
- 1/30/19 Sleep and Dreams, Stanford University, Stanford, California
- 3/16/19 42nd Annual Meeting, National Association for Medical Direction of Respiratory Care, Sonoma, California
- Surgical Approach to OSA: From Reconstruction to Restoration
- 5/16/19 Eye, Ear, Nose, Throat Innovation Course, Stanford, California
- Disease State and Existing Solutions

International Meetings

- 10 / 2014 4th Network of Asia-Pacific Sleep Specialists, Kuala Lumpur, Malaysia
1. Review of Sleep Apnea Surgery
 2. Bite, Breathing, and Beauty: Conundrums of Facial Skeletal Surgery
- 03 / 2015 10th Sleep Respiration Forum, Ansan, South Korea
- Bite, Breathing, and Beauty: Considerations of Facial Skeletal Surgery
- 03/ 2015 6th World Association of Sleep Medicine, Seoul, South Korea
1. Surgical Mini-implant Assisted Maxillary Expansion (Instructional Course)
 2. Maxillomandibular Advancement for Obstructive Sleep Apnea – the Name Tells Half the Story
 3. Static Hyoid Position and Dynamic Lateral Pharyngeal Wall Collapse Predict OSA Severity: Observations Based on Sleep MRI
- 05 / 2015 Colombian Association of Otorhinolaryngology, Head & Neck, Maxillofacial Surgery and Aesthetic Surgery (ACORL), Barranquilla, Colombia
1. Surgery first- Cirugia ortognatica sin ortodoncia previa
 2. Planeamiento virtual para cirugia esqueletica en SAHOS

3. Cirugia asistida por miniimplantes para expansion rapida de paladar: MMA para la nariz?
 4. Avance maxilomandibular. LA importancia de la rotacion angular
 5. Predictores dinamicos y estaticos de la severidad del SAHOS
 6. Endoscopia del sueno y analisis computarizado de analisis de flujo”
Caracterizacion de la via aerea antes de MMA
 7. Respiracion y belleza en cirugias condrofaciales y esqueleticas”
 8. Advance geniogloso y genioplastia de avance. Cual es la diferencia?”
- 11/2015 4th Snoring & Sleep Apnea Surgery Course, Singapore General Hospital, Singapore
1. Virtual Surgical Planning for Skeletal Sleep Surgery: When is it Useful?
 2. MMA as Skeletal-Palatopharyngoplasty (S-PPP): Observations from DISE and CFD
- 03/10/16 4th International Pediatric Sleep Apnea Association Congress (IPSA), Taipei, Taiwan
- Mini-implant Assisted Surgical Rapid Maxillary Expansion in Late Teenagers
- 04/15/16 7th International Sleep Surgery Society Meeting (ISSS), Sao Paolo, Brazil
- Dynamic Upper Airway Changes after MMA: What Matters the Most?
- 05/13/16 Visiting Professorship, Cathay General Hospital, Taipei, Taiwan
- Past, Present, to Precision: the Stanford Surgical Approach to OSA
- 07/08/16 41st Japanese Society of Sleep Research Conference, Tokyo, Japan
- The Evolution of the Stanford Approach to Sleep Surgery
- 10/2016 6th Network of Asia-Pacific Sleep Specialists, Manila, Philippines
1. Sleep Apnea Surgery in the Era of Precision Medicine: Pre-Surgical Evaluation
 2. Sleep Apnea Surgery in the Era of Precision Medicine: The Stanford Surgical Experience
- 10/22-23/16 12th Annual Meeting of the Taiwan Academy of Facial Plastic and Reconstructive Surgery, Taipei, Taiwan
1. **Keynote:** Balancing Bite, Breathing, and Beauty in Facial Skeletal Surgery
 2. Live Surgical Demonstration: Functional Genioplasty
- 11/4/16 101th Taiwan Otolaryngology Society Annual Meeting, Linkou, Taiwan
- Keynote:** What is New with the Stanford Sleep Surgery Protocol?
- 1/3-5/17 1st ACE Forum on Orthognathic Surgery, Taichung, Taiwan
- Airway Stabilization in Sleep Surgery: From Reconstruction to Stimulation
- 04/30/17 China Otolaryngology Association Annual Meeting, Shanghai, China

1. **Keynote:** Past, Present, to Precision: the Stanford Sleep Surgery Algorithm
2. Seeing the Great Lateral Pharyngeal Wall of OSA with CPAP, MMA, and UAS

05/05/17

8th International Sleep Surgery Society (ISSS), Los Angeles, CA

MMA as First Line Treatment for OSA: Pros and Cons

Mentored Presentations:

1. Hardware Removal After Maxillary Mandibular Advancement (MMA) for Obstructive Sleep Apnea (OSA): 23 years of experience from 379 cases. (Michael Awad, MD)
2. Distraction Osteogenesis Maxillary Expansion (DOME) for Adult Obstructive Sleep Apnea Patients with Narrow and High Arched Palate (Audrey Yoon, DDS, MS)
3. Which Surgical and Polysomnographic Factors Correlate with Favorable Mandibular Fracture and Fixation Patterns in Patients with Obstructive Sleep Apnea Undergoing Maxillomandibular Advancement? (Yufeng Chen, DDS)
4. Maxillomandibular Advancement With Maxillary Segmental Osteotomy To Improve Facial Balance: Does it Work? (Catherine Hong, DDS)
5. Restricted Tongue Mobility and Ankyloglossia are Associated with Maxillary Hypoplasia and Soft Palate Elongation (Soroush Zaghi, MD)
6. Impact of Adenotonsillectomy on Disorder Pharmacotherapy in Children with Adenotonsillar Hypertrophy (Anne Huon, MD)

06/22/17

Annual Meeting of the Puerto Rico Otolaryngology Society, Dr. Jose T. Pico Lectureship, San Juan, Puerto Rico

Keynote: Reconstruction, Restoration, and Re-education: Sleep Surgery in the Era of Precision Health

07/28-29/17

III Simpósio Internacional de Ortodontia e Cirurgia Ortognática do Hospital Samaritano de São Paulo, São Paulo, Brazil

1. Past, Present, and Precision: Evolution of Stanford Sleep Surgery
2. Maxillomandibular Advancement and Hypoglossal Nerve Stimulation: What We Learned

08/25-26/17

5th Snoring & Sleep Apnea Surgery Course, Singapore General Hospital, Singapore

1. Updating the Stanford Experience: GGA, MMA, Hypoglossal Nerve Stimulation, and Introducing DOME

10/8-10/17

World Sleep Congress, Prague, Czech Republic

1. Distraction osteogenesis maxillary expansion (DOME) for adult OSA Patients (course instructor)
2. Reconstruction to Restoration and Re-education: Myofunctional Therapy as a Missing Link in Sleep Surgery (course instructor)
3. MMA after Maxillary Expansion (symposium panelist)
4. Distraction osteogenesis maxillary expansion (DOME) for adolescents, Pros and Cons (symposium panelist)

5. Designer Sleep Surgery (symposium panelist)
- 10/22/17 5th Guangzhou Sleep Medicine Congress, Shenzhen, China
- MMA: What it is, and is not
- 11/3/17 56th Congress of the Korean Association of Maxillofacial Plastic Reconstructive Surgeons, Seoul National University, Seoul, South Korea
- Designer Sleep Surgery: Stanford Style
- 11/11/17 Quebec Society of Maxillofacial Surgery Annual Meeting, Montreal, Canada
- Past, Present, to Precision: Evolution of Sleep Surgery at Stanford
- 12/2/17 Karl Storz Visiting Professorship, The Hong Kong Society of Otorhinolaryngology, Head and Neck Surgery, Hong Kong
- Airway Design for Sleep Surgery: Surgical Solutions for Obstructive Sleep Apnea
- 3/23/18 2nd Congress of Asian Society of Sleep Medicine, Seoul, South Korea
1. To Expand, to Advance, and to Inspire: Contemporary Approaches to Sleep Surgery
 2. Missed Milestones in Pediatric OSA Care: Can Surgery Help?
- 4/7/18 9th International Sleep Surgery Society (ISSS), Munich, Germany
- Symposium Chair: Maxillomandibular Advancement
- Mentored Presentations:
1. Biomechanical and Stress Distribution Effects of Maxillary Expansion Methods, SARPE, MARPE, DOME (Yufeng Chen, DDS)
 2. Combining MMA and Upper Airway Stimulation: When and Why? (Sophia Hsu, MD)
- 5/2-3/18 9th Singapore Allergy and Rhinology Conference, Singapore
1. Sleep Surgery: Updated Stanford Protocol
 2. Sleep Surgery: Refractory Sleep Apnea
- 6/30/18 10th Chinese Sleep Research Society Conference, Harbin, China
- Keynote:** Designer Sleep Surgery with Emphasis on Skeletal Surgery and Neurostimulation
- 7/25-26/18 Encontro Internacional Em Medicina Do Sono, Sao Paulo, Brazil
1. Quando Indicar o AMM?
 2. O Que Esperar Para Os Proximos Anos?
- 11/7-10/18 13th Asian Congress of Oral and Maxillofacial Surgery, Taipei, Taiwan
3. Surgery Surgery: Decision by Precision
- Mentored Presentations

4. Optimizing Efficacy of Upper Airway Stimulation with Skeletal Surgery for Severe OSA (Grace K.J. Chen, DDS)
5. Why and When does MMA Work Best? (Allen Huang, DDS, MD)
6. Rapid Return to Function after MMA for OSA: Optimizing Saggital Split Osteotomy (Yufeng Chen, DDS)

12/16/18 2nd International Scientific Orthodontic Forum: Science to Chairside, Seoul, South Korea

1. Designing the Airway for Better Sleep
2. Impact of DOME on Combined Procedures: MMA, TORS, Hypoglossal Nerve Stimulation

1/19/19 The Hong Kong College of Otorhinolaryngologists, Cricket Club, Hong Kong
Sleep Surgery: Putting It Altogether

4/25-26/19 **Co-Chair**, Singapore Sleep Allergy and Rhinology Conference Sleep Workshop, Singapore

1. The Role of MMA in Today's Stanford Sleep Surgery Protocol
2. Cadaveric Demonstration and Dissection: Skeletal Surgery

5/11/19 10th International Sleep Surgery Society (ISSS), New York City, New York
MMA with Adjunctive Procedures

Visiting Professorships

9/4-7/18 National Cheng Kung University, Tainan, Taiwan

1. Otolaryngology Grand Rounds: Designing the Airway for Better Sleep
2. Medical School Grand Rounds
3. Biodesign Workshop for Faculty
4. Sleep Medicine Conference Keynote: When MMA meets UAS

1/17-18/19 Pok Oi Hospital Board of Directors, Hong Kong

1. Introduction to Sleep Surgery Algorithm
2. Skeletal Surgery: The Past, Present, and Precision
3. Hypoglossal Nerve Stimulation: the Basics
4. Hypoglossal Nerve Stimulation: Its Role in Sleep Surgery

Mentored Presentations:

1. Skeletal Surgery: Hong Kong Experience (Jeni Ho, DDS)
2. Box Surgery with Precision: DOME and Genio (Michael Awad, MD)
3. Hypoglossal Nerve Stimulation: Interesting Case Studies (Sasikarn Poomkonsarn, MD)

Upcoming Invited Talks (Local, National, International)

- 6/8-2/19 **Invited Speaker** 33rd Annual Meeting, SLEEP (Associated Professional Sleep Societies), San Antonio, Texas
Sleep Surgery: From Past and Present to Precision
- 6/13/19 **Keynote** Spanish Congress of Oral and Maxillofacial Surgery, Seville, Spain
1. Hypoglossal Nerve Stimulation
 2. MMA
- 6/22-23/19 Instructor, Pediatric Dental Sleep Medicine Symposium: An Interdisciplinary Team Approach, Tufts University, Boston
- 7/14/19 **Keynote** Chinese Sleep Medicine Congress, Taiyuan, China
- 9/13-14/19 OrthoPreneuers 2019 Summit, Dallas, Texas
- 10/12/19 Mini-Sleep Residency, University of Pacific, San Francisco, California
- 5/2/2020 International Symposium of Orthognathic Surgery, Vienna, Austria

PREDOCTORAL STUDENTS MENTORED

Dates	Name	Program or School	Faculty role	Current position
2011 - 2013	Brian Lee	<i>Recipient</i> , UCSF Clinical Translational Research Award	Project: Long-term follow-up of sleep disordered breathing associated with orthognathic surgery	MD Candidate (2018), Matched to LLU OMFS
2014 – 2016	Grace Hyunje Cho	<i>Recipient</i> , Stanford MedScholars Fellowship	Project: Use of Novel Static and Dynamic Imaging Assessment to Phenotype Patients with OSA	MD Candidate (2018), Matched to Stanford Dermatology

RESIDENTS MENTORED

Dates	Name	Program or School	Faculty role	Current position
7/2015-6/2016	Ryan Williams, MD	Resident, PGY 4, Otolaryngology, Stanford University	Project: Posterior nasal obstruction in CPAP intolerant patients, Prospective Cohort Study	Attending Surgeon of Otolaryngology
4/2017 – present	Tyler Okland, MD	Resident, PGY 2, Otolaryngology, Stanford University	Project: Outcome of nasal breathing after distraction osteogenesis maxillary expansion (DOME) procedure	PGY 2, Otolaryngology, Stanford University

CLINICAL FELLOWS MENTORED

Dates	Name	Position while Mentored	Faculty role	Current position
9/2014 – 6/2015	Carlos Torre, MD	Sleep Surgery Clinical Instructor	Supervised Fellowship	Assistant Professor of ENT and Sleep Medicine, University of Miami
7/2015 – 6/2016	Soroush Zaghi, MD	Sleep Surgery Clinical Instructor	Supervised Fellowship	Private Practice, Los Angeles
7/2016 – 6/2017	Ryan Williams, MD	Sleep Surgery Clinical Instructor	Supervised Fellowship	Transitional year, starting Harvard DDS/OMFS
7/2017 – 6/2018	Chris Gouveia, MD	Sleep Surgery Clinical Instructor	Supervised Fellowship	Attending Surgeon of Otolaryngology, Kaiser Permanente Santa Clara
7/2018 – present	Michael Awad, MD	Sleep Surgery Clinical Instructor	Supervised Fellowship	Clinical Fellow Stanford University

VISITING RESEARCH SCHOLARS MENTORED

Dates	Name	Position while Mentored	Mentoring role	Current position
10/2014 – 6/2015	Leh-Kiong Huon, MD	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Assistant Professor, Otolaryngology, Fujen Medical School, Taiwan
6/2015 – 5/2016	Pi-Jun, Lee, MD	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Fellow, Plastic & Reconstructive Surgery, Cathay General Hospital, Taipei, Taiwan
8/2016 – 6/2017	Yu-Feng, Chen, DDS	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Clinical Instructor, Oral & Maxillofacial Surgery, Kaohsiung Medical University, Taiwan
9/2017 – 3/2018	Elysa Kliman, DDS	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Private Practice, Toronto, Canada
7/2018 - present	Sasikarn Lin Poomkonsarn, MD	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Visiting Research Scholar, Stanford School of Medicine
7/2018 - present	Mohamed Abdelwahab, MD	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Visiting Research Scholar, Stanford School of Medicine
10/2018 – present	Xiaotong Ren, MD	Visiting Scholar, Stanford School of Medicine	Academic and Research Advisor	Visiting Research Scholar, Stanford School of Medicine