

**EDWARD CHENG-LUNG KUAN, MD, MBA**

Department of Otolaryngology-Head and Neck Surgery

101 The City Dr. S., Bldg 56, Ste. 500

Orange, CA 92868-3201

**EDUCATION**

2003-2007	University of California, Los Angeles (UCLA) College of Letters and Science	Bachelor of Arts, Business Economics Bachelor of Science, Biology
2007-2012	University of California, Irvine (UCI) School of Medicine	Doctor of Medicine Distinction in Research
2010-2012	University of California, Irvine The Paul Merage School of Business	Master of Business Administration

**POSTGRADUATE CLINICAL TRAINING**

2012-2013	Intern	UCLA Department of Surgery
2013-2016	Resident Physician	UCLA Department of Head and Neck Surgery
2016-2017	Chief Resident	UCLA Department of Head and Neck Surgery
2017-2018	Fellow	University of Pennsylvania Rhinology and Skull Base Surgery

**ACADEMIC APPOINTMENTS**

2017-2018	Clinical Instructor	University of Pennsylvania Department of Otorhinolaryngology-Head and Neck Surgery
2018-	Health Sciences Assistant Clinical Professor	UCI Medical Center Department of Otolaryngology-Head and Neck Surgery

**LICENSURE AND CERTIFICATIONS**

2013	Medical Board of California
2017	Pennsylvania State Board of Medicine
2018	American Board of Otolaryngology

**EDITORIAL REVIEW**

Lasers in Medical Science (ad hoc, 2014-)  
 Otolaryngology-Head and Neck Surgery (ad hoc, 2014-)  
 Lasers in Surgery and Medicine (ad hoc, 2015-)  
 Allergy & Rhinology (ad hoc, 2016-)  
 American Journal of Rhinology & Allergy (ad hoc, 2016-)  
 Journal of Neurological Surgery – Part B Skull Base (ad hoc, 2017-)  
 International Forum of Allergy & Rhinology (ad hoc, 2017-)  
 Laryngoscope (ad hoc, 2018-)

**PROFESSIONAL MEMBERSHIPS**

American Society for Laser Medicine and Surgery (2008)  
 American Academy of Otolaryngology-Head and Neck Surgery (2013)

American Rhinologic Society (2013)  
 The Triological Society (2013)  
 American Academy of Otolaryngic Allergy (2015)  
 North American Skull Base Society (2018)  
 European Rhinologic Society (2018)

#### **ACADEMIC HONORS**

2003 Valedictorian, Los Altos High School, Hacienda Heights, CA  
 2007 Phi Beta Kappa, UCLA College of Letters and Science  
 2007 Summa Cum Laude, UCLA College of Letters and Science  
 2007 Departmental Honors, UCLA Department of Ecology and Evolutionary Biology  
 2009 Association of Pathology Chairs Honor Society  
 2010 Alpha Omega Alpha Medical Honor Society (elected in junior year), Zeta California chapter, UC Irvine School of Medicine  
 2012 Graduation with Distinction in Research, UC Irvine School of Medicine

#### **AWARDS AND HONORARIUMS**

2003 Regents Scholarship, UCLA College of Letters and Science  
 2003 Robert C. Byrd Honors Scholarship  
 2006 Robert D. & Margaret A. Wark Memorial Scholarship, UCLA Department of Economics  
 2007 Presidential Volunteer Service Award (Gold Level), UCLA Medical Center  
 2009 American Society of Clinical Pathologists Award, UC Irvine School of Medicine  
 2009 Distinguished Achievement Award in Pathology, UC Irvine School of Medicine  
 2009 Medical Alumni Association Donald E. Pinder, MD '62 Memorial Award, UC Irvine School of Medicine (awarded to student with top performance in Gross Anatomy course)  
 2010 Faculty Fellowship, Paul Merage School of Business at UC Irvine  
 2011 Best Student/Resident Paper in Surgical Applications/Interstitial Laser Therapy Award, "Ex vivo evaluation of Laser Auricular Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Model," 2011 ASLMS Annual Conference  
 2011 Vator.tv People's Choice Award, 2011 Business Plan Competition, Paul Merage School of Business at UC Irvine  
 2012 Vincent P. Carroll Award for Outstanding Research by a Graduating Medical Student, UC Irvine School of Medicine  
 2014 1<sup>st</sup> Place Team, Resident Bowl, 2014 Combined Sections Meeting of the Triological Society  
 2015 1<sup>st</sup> Place Team, Resident Bowl, 2015 Combined Sections Meeting of the Triological Society  
 2016 Poster of Distinction, "Anatomic Variations in Pituitary Endocrinopathies: Implications for the Surgical Corridor," 2016 NASBS Annual Meeting  
 2016 Outstanding Early Career Abstract Award, "Laser Generated Shockwaves Enhance Antibacterial Activity Against Biofilms in vitro," 2016 ASLMS Annual Conference  
 2016 1<sup>st</sup> Place Team, Resident Bowl, 84<sup>th</sup> Midwinter Conference of the Research Study Club of Los Angeles – Recent Advances in Otolaryngology  
 2017 Special Recognition Award for Best Teaching Chief 2016-17, UCLA Head and Neck Surgery (based on resident voting)

#### **RESEARCH SUPPORT AND GRANTS**

2010-2012 Student Research Fellowship

- American Society for Laser Medicine and Surgery  
*Laser Auricular Cartilage Reshaping with Carbon Dioxide Spray Cooling*  
 Faculty sponsor: Brian J.F. Wong, MD, PhD  
 2011-2012 Carolyn L. Kuckein Student Research Fellowship  
 Alpha Omega Alpha Honor Medical Society  
*pH-dependent Mechanisms of Electromechanical Cartilage Reshaping*  
 Faculty sponsor: Brian J.F. Wong, MD, PhD  
 2016-2017 American Academy of Otolaryngology-Head and Neck Surgery Foundation  
 (AAOHNSF) Resident Research Award  
 AAOHNSF Centralized Otolaryngology Research Efforts (CORE) Grant Program  
*Laser Generated Shockwave Treatment of Biofilms*  
 Faculty sponsors: Maie A. St. John, MD, PhD and Warren S. Grundfest, MD

#### JOURNAL ARTICLES – PEER REVIEWED IN PRINT

\* Indicates equivalent authorship

- J1. **Wu EC**, Wong BJ. Lasers and Optical Technologies in Facial Plastic Surgery. Archives of Facial Plastic Surgery. 2008 Nov-Dec;10(6):381-90. PMID: 19018058.
- J2. Djalilian HR, Rubinstein M, **Wu EC**, Naemi K, Zardouz S, Karimi K, Wong BJ. Optical Coherence Tomography of Cholesteatoma. Otolology and Neurotology. 2010 Aug;31(6):932-5. PMID: 20684054.
- J3. Husein OF, Sepehr A, Garg R, Sina-Khadiv M, Gattu S, Waltzman J, **Wu EC**, Shieh M, Heitmann GM, Galle SE. Anthropometric and Aesthetic Analysis of the Indian American Woman's Face. Journal of Plastic, Reconstructive, & Aesthetic Surgery. 2010 Nov;63(11):1825-31. PMID: 19962360.
- J4. Zardouz S, German MA, **Wu EC**, Djalilian HR. Personality Types of Otolaryngology Resident Applicants as Described by the Myers-Briggs Type Indicator. Otolaryngology-Head and Neck Surgery. 2011 May;144(5):714-8. PMID: 21493345.
- J5. **Wu EC**, Passy V, Armstrong WB. Preliminary Evaluation of Junior Medical Students' Exposure and Comfort with Performing the Basic Head and Neck Examination. Laryngoscope. 2011 Jul;121(7):1431-5. PMID: 21671238.
- J6. **Wu EC**, Protsenko DE, Khan AZ, Dubin S, Karimi K, Wong BJ. Needle Electrode-based Electromechanical Reshaping of Rabbit Septal Cartilage: A Systematic Evaluation. IEEE Transactions on Biomedical Engineering. 2011 Aug;58(8):2378-83. PMID: 21606017.
- J7. Mahboubi H\*, **Wu EC\***, Jahanbakhshi R, Coale K, Rothholtz VS, Zardouz S, Djalilian HR. A Novel Method to Determine Standardized Anatomic Dimensions of the Osseous External Auditory Canal. Otolology and Neurotology. 2012 Jul;33(5):715-20. PMID: 22664898.
- J8. **Wu EC**, Rothholtz VS, Zardouz S, Lee AD, Djalilian HR. Facial Nerve Hemangioma: A Case Report. Ear Nose Throat Journal. 2013 Jun;92(6):262-263. PMID: 23780592.
- J9. **Wu EC**, Zardouz S, Mahboubi H, Ashtiani AK, Shahriari S, Ziai K, Rothholtz VS, Djalilian HR. Knowledge and Education of Primary Care Physicians on Management of Children with Hearing Loss and Pediatric Cochlear Implantation. Otolology & Neurotology. 2013 Jun;34(4):593-4. PMID: 23632786.
- J10. Mahboubi H, Salibian AA, **Wu EC**, Patel MS, Djalilian HR, Armstrong WB. The Role and Utilization of Electronic Medical Records in Ambulatory Otolaryngology. Laryngoscope. 2013 Oct;123(10):2418-22. PMID: 23619936.
- J11. DeConde AS, Thompson CF, **Wu EC**, Suh JD. Systematic Review and Meta-analysis of Total Intravenous Anesthesia and Endoscopic Sinus Surgery. International Forum of Allergy & Rhinology. 2013 Oct;3(10):848-54. PMID: 23843351.

- J12. Mahboubi H, Salibian AA, **Wu EC**, Patel MS, Djalilian HR, Armstrong WB. Contributing Factors to Adoption of Electronic Medical Records in Otolaryngology Offices. *Laryngoscope*. 2013 Nov;123(11):2658-63. PMID: 23712468.
- J13. **Wu EC**, Sun V, Manuel CT, Jia WC, Protsenko DE, Wong BJ, Nelson JS. *Ex vivo* Evaluation of Laser Auricular Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Model. *Lasers in Medical Science*. 2013 Nov;28(6):1475-82. PMID: 23307439.
- J14. Sanderson AR, **Wu EC**, Liaw LH, Garg R, Gangnes RA. The Effect of Topical Anesthetic Application on the Depth of Thermal Injury from the Plasma Skin Regeneration (PSR) Device. *Lasers in Surgery and Medicine*. 2014 Feb;46(2): 127-31. PMID: 24375476.
- J15. **Wu EC**, Chark D, Bhandarkar ND. Bilateral Juvenile Nasopharyngeal Angiofibroma: Report of a Case. *International Forum of Allergy & Rhinology*. 2014 Jul;4(7):603-6. PMID: 24664618.
- J16. **Kuan EC**, Hamamoto AA, Manuel CT, Protsenko DE, Wong BJ. Systematic Analysis of pH-dependent Mechanisms of Electromechanical Reshaping of Rabbit Nasal Septal Cartilage. 2014 Oct;124(10):E405-10. PMID: 24687330.
- J17. **Kuan EC**, Suh JD, Wang MB. Empty Nose Syndrome. *Current Allergy and Asthma Reports*. 2015 Jan;15(1):493. PMID: 25430954.
- J18. **Kuan EC**, Hamamoto AA, Sun V, Nguyen T, Manuel CT, Protsenko DE, Wong BJ, Nelson JS, Jia WC. *In vivo* Laser Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Ear Model: A Pilot Study. *Lasers in Surgery and Medicine*. 2014 Dec;46(10):791-5. PMID: 25557008.
- J19. **Kuan EC**, Badran KW, Passy V, Armstrong WB. Medical Students' Long-Term Comfort Levels with Performing the Basic Head and Neck Examination in Practice: Follow-up During the Core Clerkship Year. *Journal of Surgical Education*. 2015 Jan-Feb;72(1):117-21. PMID: 25168714.
- J20. **Kuan EC**, Palma Diaz MF, Chiu AG, Bergsneider M, Wang MB, Suh JD. Sinonasal and Skull Base Pleomorphic Adenoma: A Case Series and Literature Review. *International Forum of Allergy & Rhinology*. 2015 May;5(5):460-8. PMID: 25712714.
- J21. **Kuan EC**, Badran KW, St. John MA. What is the Role of Human Papillomavirus Testing in Head and Neck Cancer? *Laryngoscope (Triological Best Practice)*. 2015 Dec;125(12):2633-4. PMID: 25779218.
- J22. **Kuan EC\***, Peng KA\*, Kita AE, Bergsneider M, Wang MB. Acromegaly: Otolaryngic Manifestations and Sinonasal Outcomes Following Pituitary Surgery. *American Journal of Otolaryngology*. 2015 Jul-Aug;36(4):521-5. PMID: 25794787.
- J23. **Kuan EC**, Peng KA, Bhuta S, Palma Diaz F, Zhang ZF, Abemayor E, St. John MA. Basaloid Squamous Cell Carcinoma of the Maxilla: Case Report and Literature Review. *American Journal of Otolaryngology*. 2015 May-Jun;36(3):402-7. PMID: 25798549.
- J24. Peng KA, **Kuan EC**, Unger L, Lorentz W, Wang MB, Long JL. A Swallowing Preservation Protocol Improves Function for Veterans Receiving Chemoradiation for Head and Neck Cancer. *Otolaryngology-Head and Neck Surgery*. 2015 May;152(5):863-7. PMID: 25829388.
- J25. **Kuan EC**, Tajudeen BA, Peng KA, Wang MB. Sinonasal Outcomes in Obstructive Sleep Apnea Syndrome. *Laryngoscope*. 2015 Nov;125(11):2617-20. PMID: 26108348.
- J26. **Kuan EC**, Mallen-St. Clair J, St. John MA. How Does Depth of Invasion Influence the Decision for Elective Neck Dissection in the Clinically Negative Neck for Oral Cavity Cancer? *Laryngoscope (Triological Best Practice)*. 2016 Mar;126(3):547-8. PMID: 26666561.
- J27. **Kuan EC**, Yoon AJ, Vijayan T, Humphries RM, Suh JD. Canine *Staphylococcus Pseudintermedius* Sinonasal Infection in Human Hosts. *International Forum of Allergy & Rhinology*. 2016 Jul;6(7):710-5. PMID: 26880481.
- J28. **Kuan EC**, Mallen-St. Clair J, St. John MA. Diagnosis of Parotid Lesions. *Otolaryngology Clinics of North America*. 2016 Apr;49(2):313-25. PMID: 26902978.
- J29. **Kuan EC**, Arshi A, Mallen-St. Clair J, Tajudeen BA, Abemayor E, St. John MA. Importance of Tumor Stage in Sinonasal Undifferentiated Carcinoma Survival: A Population Based Analysis. *Otolaryngology-Head and Neck Surgery*. 2016 Apr;154(4):667-73. PMID: 26908559.

- J30. Suh JD, **Kuan EC**, Thompson CF, Scawn RL, Feinstein AJ, Barham HP, Kingdom TT, Ramakrishnan VR. Using Fixed Anatomical Landmarks to Avoid Medial Rectus Injury: a Radiographic Analysis. *American Journal of Otolaryngology*. 2016 Jul-Aug;37(4):334-8. PMID: 27040416.
- J31. Salibian AA, Mahboubi H, Patel MS, **Kuan EC**, Malinoski DJ, Djalilian HR. The Role of Physician Extenders in Surgical Specialty Office Settings: An Analysis of the National Ambulatory Medical Care Survey. *Journal of the American Academy of Physician Assistants*. 2016 May;29(5):47-53. PMID: 27124230.
- J32. Tajudeen BA, Adappa ND, **Kuan EC**, Schwartz JS, Suh JD, Wang MB, Palmer JN. Smell Preservation After Endoscopic Unilateral Resection of Esthesioneuroblastoma: a Multi-Institutional Experience. *International Forum of Allergy & Rhinology*. 2016 Oct;6(10):1047-1050. PMID: 27431053.
- J33. **Kuan EC**, Tajudeen BA, Bhuta SM, Palma Diaz MF, Kedeshian PA, Suh JD. Incidental Finding of Lymphoma Following Septoplasty. *Allergy & Rhinology*. 2016 Jan;7(2):90-5. PMID: 27470206.
- J34. Han AY, **Kuan EC**, Mallen-St. Clair J, Alonso JE, Arshi A, St. John MA. Epidemiology of Squamous Cell Carcinoma of the Lip in the United States: A Population-Based Cohort Analysis. *JAMA Otolaryngology-Head & Neck Surgery*. 2016 Dec 1;142(12):1216-1223. PMID: 27832256.
- J35. Han AY, Lentz JF, **Kuan EC**, Araya HH, Kamgar M. A Case of Reactive Cervical Lymphadenopathy with Fat Necrosis Impinging on Adjacent Vascular Structures. *Case Reports in Otolaryngology*. 2016;2016:6019501. PMID: 27840758.
- J36. **Kuan EC**, Alonso JE, Tajudeen BA, Arshi A, Mallen-St. Clair J, St. John MA. Small Cell Carcinoma of the Head and Neck: a Comparative Study by Primary Site Based on Population Data. *Laryngoscope*. 2017 Aug;127(8):1785-1790. PMID: 27859290.
- J37. **Kuan EC**, Suh JD. Systemic and Odontogenic Etiologies in Chronic Rhinosinusitis. *Otolaryngology Clinics of North America*. 2017 Feb;50(1):95-111. PMID: 27888918.
- J38. **Kuan EC**, Peng KA, Thompson CF, Suh JD, Wang MB. Sinonasal Symptomatic Outcomes Following Laser Treatment of Epistaxis Related to Hereditary Hemorrhagic Telangiectasias. *Lasers in Medical Science*. 2017 Apr;32(3):527-531. PMID: 28116537.
- J39. **Kuan EC**, Mallen-St. Clair J, Frederick JW, Tajudeen BA, Wang MB, Suh JD. Significance of Undissected Retromaxillary Air Cells as a Risk Factor for Revision Endoscopic Sinus Surgery. *American Journal of Rhinology & Allergy*. 2016 Nov-Dec;30(6):448-52. PMID: 28124658.
- J40. **Kuan EC**, Alonso JE, Arshi A, St. John MA. Nasopharyngeal Adenocarcinoma: a Population-Based Analysis. *American Journal of Otolaryngology*. 2017 May-Jun;38(3):297-300. PMID: 28173955.
- J41. Heineman TE, **Kuan EC**, St. John MA. When Should Surveillance Imaging be Performed Following Treatment of Head and Neck Cancer? *Laryngoscope (Triological Best Practice)*. 2017 Mar;127(3):533-534. PMID: 28185273.
- J42. **Kuan EC**, Yoo F, Kim W, Badran KW, Heineman TE, Sepahdari AR, Bergsneider M, Wang MB. Anatomic Variations in Pituitary Endocrinopathies: Implications for the Surgical Corridor. *Journal of Neurological Surgery B Skull Base*. 2017 Apr;78(2):105-111. PMID: 28321371.
- J43. **Kuan EC**, Yoo F, Chyu J, Bergsneider M, Wang MB. Treatment Outcomes of Rathke's Cleft Cysts Managed with Marsupialization. *Journal of Neurological Surgery B Skull Base*. 2017 Apr;78(2):112-115. PMID: 28321372.
- J44. Tajudeen BA, **Kuan EC**, Adappa ND, Han JK, Chandra RK, Palmer JN, Kennedy DW, Wang MB, Suh JD. Ectopic Pituitary Adenomas Presenting as Sphenoid or Clival Lesions: Case series and Management Recommendations. *Journal of Neurological Surgery B Skull Base*. 2017 Apr;78(2):120-124. PMID: 28321374.

- J45. Yoo F, **Kuan EC**, Bergsneider M, Wang MB. Free Mucosal Graft Reconstruction of the Septum after Nasoseptal Flap Harvest: A Novel Technique Using a Posterior Septal Free Mucosal Graft. *Journal of Neurological Surgery B Skull Base*. 2017 Apr;78(2):201-206. PMID: 28321387.
- J46. Han AY, **Kuan EC**, Alonso JE, Badran KW, St. John MA. Epidemiology of Nasopharyngeal Lymphoma in the United States: a Population-Based Analysis of 1,119 Cases. *Otolaryngology-Head and Neck Surgery*. 2017 May;156(5):870-876. PMID: 28322119.
- J47. Yao W, **Kuan EC**, Francis NC, St. John MA, Grundfest WS, Taylor ZD. Laser Generated Shockwaves Enhance Antibacterial Activity Against Biofilms in vitro. *Lasers in Surgery and Medicine*. Jul;49(5):539-547. PMID: 28333393.
- J48. Tajudeen BA, Brooks SG, Yan CH, **Kuan EC**, Schwartz JS, Suh JD, Palmer JN, Adappa ND. Quality of Life Improvement in Patients with Obstructive Sleep Apnea after Endoscopic Sinus Surgery. *Allergy & Rhinology*. 2017 Mar 1;8(1):25-31. PMID: 28381324.
- J49. Au JK, Alonso J, **Kuan EC**, Arshi A, St. John MA. Primary Squamous Cell Carcinoma of the Thyroid: A Population-Based Analysis. *Otolaryngology-Head and Neck Surgery*. 2017 Jul;157(1):25-29. PMID: 28397584.
- J50. Badran KW, Cheng JC, **Kuan EC**, Wong BJ. Anatomy and Surgical Approaches to the Rabbit Nasal Septum. *JAMA Facial Plastic Surgery*. 2017 Sep 1;19(5):386-391. PMID: 28472203.
- J51. Patel PB, **Kuan EC**, Yoo F, Peng KA, Nelson SD, Abemayor E. Angiosarcoma of the Tongue: Case Report and Literature Review. *American Journal of Otolaryngology*. 2017 Jul-Aug;38(4):475-478. PMID: 28478092.
- J52. **Kuan EC**, Frederick JW, Palma Diaz MF, Lim DW, Suh JD. Complete Response of Skull Base Inverted Papilloma to Chemotherapy: Case Report. *Allergy & Rhinology*. 2017 Jun 1;8(2):105-108. PMID: 28583236.
- J53. Peng KA, **Kuan EC**, Hagan S, Wilkinson EP, Miller ME. Cochlear Nerve Aplasia and Hypoplasia: Predictors of Cochlear Implant Success. *Otolaryngology-Head and Neck Surgery*. 2017 Sep;157(3):392-400. PMID: 28675079.
- J54. **Kuan EC**, Tajudeen BA, Welch KC, Chandra RK, Glasgow BJ, Suh JD. Aggressive Necrotizing Pseudomonal Sinonasal Infections. *International Forum of Allergy & Rhinology*. 2017 Sep;7(9):910-915. PMID: 28707783.
- J55. Ghazizadeh S, **Kuan EC**, Mallen-St. Clair J, Abemayor E, Luu Q, Nabili V, St. John MA. It Takes Two: One Resects, One Reconstructs. *Otolaryngology Clinics of North America*. 2017 Aug;50(4):747-753. PMID: 28755704.
- J56. Su BM, **Kuan EC**, St. John MA. What is the Role of Imaging in the Evaluation of the Patient Presenting with Unilateral Facial Paralysis? *Laryngoscope (Triological Best Practice)*. 2018 Feb;128(2):297-298. PMID: 28833220.
- J57. **Kuan EC**, Peng KA, Bergsneider M, Suh JD, Wang MB. Otolaryngic Manifestations of Cushing Disease. *Ear Nose Throat Journal*. 2017 Aug;96(8):E28-E30. PMID: 28846797.
- J58. Alonso JE, **Kuan EC**, Arshi A, St. John MA. A Population-Based Analysis of Verrucous Carcinoma of the Oral Cavity. *Laryngoscope*. 2018 Feb;128(2):393-397. PMID: 28850720.
- J59. Alonso JE, Han AY, **Kuan EC**, Suh JD, St. John MA. Epidemiology and Survival Outcomes of Sinonasal Verrucous Carcinoma in the United States. *Laryngoscope*. 2018 Mar;128(3):651-656. PMID: 28865078.
- J60. Heineman TE, Widman A, **Kuan EC**, St. John MA. The Genetic Landscape of Programmed Death Ligand-1 (PD-L1) Alterations in Head and Neck Squamous Cell Carcinoma. *Laryngoscope Investigative Otolaryngology*. 2017 May 17;2(3):99-103. PMID: 28894827.
- J61. Carey RM, Godovchik J, Workman AD, **Kuan EC**, Parasher AK, Chen J, Palmer JN, Adappa ND, Newman JG, Brant JA. Patient, Disease, and Treatment Factors Associated with Overall Survival in Esthesioneuroblastoma. *International Forum of Allergy & Rhinology*. 2017 Dec;7(12):1186-1194. PMID: 29045018.
- J62. Workman AD, Carey RM, Parasher AK, **Kuan EC**, Godovchik J, Glicksman JT, Kennedy DW, Palmer JN, Adappa ND. The Fate of the Bone Graft in Cerebrospinal Fluid Rhinorrhea

- Endoscopic Repair for Idiopathic Intracranial Hypertension: A Retrospective Case Series Analysis. *Rhinology*. 2017 Dec 1;55(4):376-381. PMID: 29055142.
- J63. Yoo F, Ference EH, **Kuan EC**, Lee JT, Wang MB, Suh JD. Evaluation of Patient Nasal Saline Irrigation Practices Following Endoscopic Sinus Surgery. *International Forum of Allergy & Rhinology*. 2018 Jan;8(1):32-40. PMID: 29083529.
- J64. Badran KW, Heineman TE, **Kuan EC**, St. John MA. Is Multidisciplinary Team Care for Head and Neck Cancer Worth It? Accepted for publication in *Laryngoscope (Triological Best Practice)*. PMID: 29105775.
- J65. Parasher AK, **Kuan EC**, St. John MA, Tajudeen BA, Adappa ND. What is the Appropriate Timing for Endoscopic and Radiographic Surveillance Following Treatment for Sinonasal Malignancies? Accepted for publication in *Laryngoscope (Triological Best Practice)*. PMID: 29219192.
- J66. Su BM, Moayer R, **Kuan EC**, St. John MA. When Should a Level IIB Neck Dissection Be Performed in Treatment of Head and Neck Squamous Cell Carcinoma? Accepted for publication in *Laryngoscope (Triological Best Practice)*. PMID: 29238997.
- J67. Ganti A, Plitt MA, **Kuan EC**, Kuhar HN, Batra PS, Tajudeen BA. Risk of Second Primary Malignancy in Patients with Sinonasal Tumors: A Population-Based Cohort Study. Accepted for publication in *International Forum of Allergy & Rhinology*. PMID: 29381260.
- J68. Alonso JE, Han AY, **Kuan EC**, Strohl M, Mallen-St. Clair J, St. John MA, Ryan WR, Heaton CM. The Survival Impact of Surgical Therapy in Squamous Cell Carcinoma of the Hard Palate. Accepted for publication in *Laryngoscope*. PMID: 29399797.
- J69. Yoo F, **Kuan EC**, Heaney AP, Bergsneider M, Wang MB. Corticotrophic Pituitary Carcinoma with Cervical Metastases: Case Review and Literature Review. Accepted for publication in *Pituitary*. PMID: 29404894.
- J70. Saggi S, Badran KW, Han AY, **Kuan EC**, St. John MA. Clinicopathologic Characteristics and Survival Outcomes in Floor of Mouth Squamous Cell Carcinoma: A Population-Based Study. Accepted for publication in *Otolaryngology-Head and Neck Surgery*. PMID: 29436280.
- J71. **Kuan EC\***, Peng KA\*, Gonzalez LO, Sercarz JA. Squamous Cell Carcinoma of the Nasal Cavity in Granulomatosis with Polyangiitis (Wegener's): Case Report and Literature Review. *Ear Nose Throat Journal*. 2018 Jan-Feb;97(1-2):E37-E41. PMID: 29493730.
- J72. Chan CK, Han AY, Alonso JE, **Kuan EC**, Xu MJ, Mallen-St. Clair J, St. John MA, Heaton CM, Ryan WR. Squamous Cell Carcinoma of the Soft Palate in the United States: A Population-Based Study. Accepted for publication in *Otolaryngology-Head and Neck Surgery*. PMID: 29734872.
- J73. Patel NN, Kohanski MA, Maina IW, Triantafyllou V, Workman AD, Tong CC, **Kuan EC**, Adappa ND, Palmer JN, Herbert DR, Cohen NA. Solitary Chemosensory Cells Producing IL-25 and Group-2 Innate Lymphoid Cells are Enriched in Chronic Rhinosinusitis with Nasal Polyps. Accepted for publication in *International Forum of Allergy & Rhinology*. PMID: 29742315.
- J74. Rizvi ZH, Alonso JE, **Kuan EC**, St. John MA. Treatment Outcomes of Patients with Primary Squamous Cell Carcinoma of the Retromolar Trigone. Accepted for publication in *Laryngoscope*. PMID: 29756295.
- J75. **Kuan EC**, Yoo F, Chyu J, Oh A, Huang W, Bergsneider M, Wang MB. Quality of Life Before and After Endoscopic Pituitary Surgery as Measured by the SF-36. *Journal of Neurological Surgery B Skull Base*. 2018 Jun;79:314-318. PMID: 29765831.
- J76. **Kuan EC**, Yoo F, Patel PB, Su BM, Bergsneider M, Wang MB. An Algorithm for Sellar Reconstruction Following the Endoscopic Endonasal Approach: A Review of 300 Consecutive Cases. *Journal of Neurological Surgery B Skull Base*. 2018 Apr;79(2):177-183. PMID: 29868324.
- J77. Shah RR, Thomas WW, **Kuan EC**, Kennedy DW. The Lamina Push Test: An Alternative to the Globe Push Test for Identifying the Medial Orbit During Endoscopic Sinus Surgery. Accepted for publication in *International Forum of Allergy & Rhinology*. PMID: 29979842.

- J78. Yoo F, Chan C, **Kuan EC**, Bergsneider M, Wang MB. Comparison of Male and Female Prolactinoma Patients Requiring Surgical Intervention. *Journal of Neurological Surgery B Skull Base*. 2018 Aug;79(4):394-400. PMID: 30009121.
- J79. Ghazizadeh S, Badran KW, **Kuan EC**, St. John MA. Does Perioperative Corticosteroid Use Affect Facial Nerve Outcomes in Elective Parotid Surgery? Accepted for publication in *Laryngoscope (Triological Best Practice)*.
- J80. **Kuan EC**, Tajudeen BA, Bhandarkar NB, St. John MA, Palmer JN, Adappa ND. Is Topical Epinephrine Safe for Hemostasis in Endoscopic Sinus Surgery? Accepted for publication in *Laryngoscope (Triological Best Practice)*.
- J81. **Kuan EC**, Nasser HB, Carey RM, Workman AD, Alonso JE, Wang MB, St. John MA, Palmer JN, Adappa ND, Tajudeen BA. A Population-Based Analysis of Nodal Metastases in Esthesioneuroblastomas of the Sinonasal Tract. Accepted for publication in *Laryngoscope*.
- J82. Wang EW, Eloy JA, Gardner PA, Schwartz TH, Zanation AM, ..., **Kuan EC**, Palmer JN. International Consensus Statement for Endoscopic Skull Base Surgery. Section 25: Cholesterol Granuloma. Accepted for publication in *International Forum of Allergy & Rhinology*.
- **Kuan EC**, Palmer JN. Section 25: Cholesterol Granuloma
  - **Kuan EC**, Adappa ND. Section 33: Nasal Morbidity
- J83. Haidar YM, **Kuan EC**, Verma SP, Goddard JA, Armstrong WB, Tjoa T. Free Flap versus Pedicled Flap Reconstruction of Laryngopharyngeal Defects: A 10 Year NSQIP Analysis. Accepted for publication in *Laryngoscope*.
- J84. Workman AD, Brody RM, **Kuan EC**, Brooks SG, Alonso-Basanta M, Newman JG, Rassekh CH, Chalian AA, Chiu AG, Weinstein GS, Adappa ND, O'Malley BW Jr, Palmer JN. Sinonasal Undifferentiated Carcinoma: a 15-Year Single Institution Experience. Accepted for publication in *Journal of Neurological Surgery B Skull Base*.
- J85. McCann AC, Berger C, Mahmoud A, **Kuan EC**, Malhotra NR, O'Malley Jr BW. Novel Approach using TransOral Robotic Surgery for Resection of Cervical Spine Chordoma. Accepted for publication in *Laryngoscope*.
- J86. **Kuan EC**, Badran KW, Yoo F, Bhandarkar ND, Haidar YM, Tjoa T, Armstrong WB, Wang MB, Palmer JN, Adappa ND, St. John MA. Predictors of Short-Term Morbidity and Mortality in Open Anterior Skull Base Surgery. Accepted for publication in *Laryngoscope*.

#### BOOK CHAPTERS

- B1. **Wu EC**, Rothholtz VS, Djalilian HR. History and Examination of the Nose. In: *10 Minute ENT Consult*. Djalilian HR (ed), Plural Publishing Inc. 2009, San Diego, CA. 179-187. ISBN: 978-1597562553.
- B2. **Wu EC**, Rothholtz VS, Djalilian HR. History and Examination of the Mouth, Throat, and Neck. In: *10 Minute ENT Consult*. Djalilian HR (ed), Plural Publishing Inc. 2009, San Diego, CA. 277-293. ISBN: 978-1597562553.
- B3. Vahabzadeh-Hagh AM, **Kuan EC**, Nabili V. Aural Fullness, Hearing Loss, and Tinnitus. In: *Surgery: A Case Based Clinical Review*. De Virgilio CM (ed), Springer USA 2015, New York, NY. 143-150. ISBN: 978-1493917259.
- B4. Boyd JW, Nelson JS, **Kuan EC**. Vascular Lesion Treated with Laser Therapy. In: *Master Techniques in Otolaryngology-Head and Neck Surgery: Facial Plastic Surgery*. Larrabee WF, Ridgway JM, Patel SA (eds), Wolters Kluwer 2017, Philadelphia, PA. 374-84. ISBN: 978-1451173703.
- B5. Cherry JD, **Kuan EC**, Shapiro NL. Rhinosinusitis. In: *Feigin and Cherry's Textbook of Pediatric Infectious Diseases, 8<sup>th</sup> Ed*. Cherry JD, Harrison GJ, Kaplan SL, Steinbach WJ, Hotez PJ (eds), Elsevier 2018, Philadelphia, PA. 137-43. ISBN: 978-0323376921.



- B6. **Kuan EC**, Lee JT. Complications of Rhinosinusitis. In: Rhinology & Allergy: Clinical Reference Guide. Chan Y, Senior BA (eds), Plural Publishing Inc. 2018, San Diego, CA. 243-52. ISBN: 978-1597569651.
- B7. **Kuan EC**, Chandra RK, O'Malley BW Jr, Adappa ND. Pterygopalatine/Pterygomaxillary Space Approaches, Maxillary Artery Ligation, and Approach for Juvenile Nasopharyngeal Angiofibroma. In: Atlas of Endoscopic Sinus and Skull Base Surgery, 2<sup>nd</sup> Ed. Chiu AG, Palmer JN, Adappa ND (eds). In press.
- B8. **Kuan EC**, Palmer JN. Surgery of the Ethmoid Sinuses. In: Rhinology: Diseases of the Nose, Sinuses, and Skull Base, 2<sup>nd</sup> Ed. Hwang PH, Kennedy DW, Orlandi RR, Wormald PJ (eds). In press.
- B9. **Kuan EC**, Ramakrishnan VR, Kennedy DW. Concepts in Functional Endoscopic Sinus Surgery. In: Rhinology: Diseases of the Nose, Sinuses, and Skull Base, 2<sup>nd</sup> Ed. Hwang PH, Kennedy DW, Orlandi RR, Wormald PJ (eds). In press.
- B10. **Kuan EC**, Palmer JN. Epistaxis. In: Cummings Otolaryngology-Head and Neck Surgery, 7<sup>th</sup> Ed. Flint PW, Haughey BH, Lund VJ, Robbins KT, Thomas JR, Lesperance MM, Francis HW (eds). In press.
- B11. Vahabzadeh-Hagh AM, **Kuan EC**, Nabili V. Aural Fullness, Hearing Loss, and Tinnitus. In: Surgery: A Case Based Clinical Review, 2<sup>nd</sup> Ed. De Virgilio CM (ed). In press.

#### SCIENTIFIC ORAL PRESENTATIONS – AS PRESENTER

\* Total 67 abstracts presented as talks – available upon request

- T1. **Wu EC**, Khan A, Protsenko DE, Dubin S, Karimi K, Lim A, Shaikh MF, Li M, Wong BJ. Electromechanical Reshaping of Rabbit Septal Cartilage: A Six Needle Electrode Geometric Configuration. Advanced Technology and Instrumentation in Otolaryngology: Lasers, Optics, Radio Frequency, and Related Technology conference, SPIE Photonics West – BiOS, San Jose, CA, January 24, 2009.
- T2. **Wu EC**, Manuel CT, Protsenko DE, Karimi K, Hamamoto A, Wong BJ. pH-dependent Mechanisms of Electromechanical Reshaping. Optical Imaging, Therapeutics, and Advanced Technology in Otolaryngology and Head and Neck Surgery conference, SPIE Photonics West – BiOS, San Francisco, CA, January 22, 2011.
- T3. **Wu EC**, Passy V, Wong BJ, Armstrong WB. Preliminary Evaluation of Junior Medical Students' Exposure and Comfort with Performing the Basic Head and Neck Examination. Combined Sections Meeting of the Triological Society, Scottsdale, AZ, January 28, 2011.
- T4. **Wu EC**, Sun V, Manuel CT, Protsenko DE, Jia WC, Wong BJ, Nelson JS. *Ex vivo* evaluation of Laser Auricular Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Model. American Society of Laser Medicine and Surgery Annual Conference, Grapevine, TX, April 1, 2011.
- T5. **Wu EC**. Juvenile Nasopharyngeal Angiofibroma. UC Irvine Otolaryngology Thursday Morning Conference, Orange, CA, August 18, 2011.
- T6. **Wu EC**, Hamamoto A, Manuel CT, Protsenko DE, Wong BJ. Systematic Analysis of pH-dependent Mechanisms of Electromechanical Reshaping of Rabbit Nasal Septal Cartilage. Combined Sections Meeting of the Triological Society, Miami Beach, FL, January 11, 2014.
- T7. **Kuan EC**, Peng KA, Thompson CF, Suh JD, Wang MB. Sinonasal Symptomatic Outcomes Following Laser Treatment of Epistaxis Related to Hereditary Hemorrhagic Telangiectasias. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, Orlando, FL, September 23, 2014.
- T8. **Kuan EC**, Peng KA, Bergsneider M, Suh JD, Wang MB. Otolaryngic Manifestations of Cushing Disease. 25<sup>th</sup> Annual North American Skull Base Society Meeting, Tampa, FL, February 20, 2015.

- T9. **Kuan EC**, Arshi A, Mallen-St. Clair J, Tajudeen BA, Abemayor E, St John MA. Sinonasal Undifferentiated Carcinoma: A Population Based Analysis. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, Dallas, TX, September 29, 2015.
- T10. **Kuan EC**, Bergsneider M, Wang MB. Treatment Outcomes of Rathke's Cleft Cysts: An 8-Year Review. UCLA Multidisciplinary Pituitary Tumor Conference, Los Angeles, CA, October 7, 2015.
- T11. **Kuan EC**, Yoo F, Chyu J, Bergsneider M, Wang MB. Treatment Outcomes of Rathke's Cleft Cysts Managed with Marsupialization. 26<sup>th</sup> Annual North American Skull Base Society Meeting, Scottsdale, AZ. February 13, 2016.
- T12. **Kuan EC**, Pesce JE, Kim IA, Sebastian CS, Taylor ZD, Grundfest WS, St. John MA. Dynamic Optical Contrast Imaging as a Novel Modality to Rapidly Distinguish Squamous Cell Carcinoma from Surrounding Normal Tissue. 7<sup>th</sup> Scientific Meeting of the Head and Neck Optical Diagnostics and Intervention Society at the American Society of Laser Medicine and Surgery Annual Conference, Boston, MA, April 2, 2016.
- T13. **Kuan EC**, Yao W, Francis NC, Marton SD, Banh M, Castellanos M, Banashek V, St. John MA, Grundfest WS, Taylor ZD. Laser Generated Shockwaves Enhance Antibacterial Activity Against Biofilms in vitro. American Society of Laser Medicine and Surgery Annual Conference, Boston, MA, April 3, 2016.
- T14. **Kuan EC**, Suh JD, Bergsneider M. An Unusual Intracranial Foreign Body. UCLA Multidisciplinary Pituitary Tumor Conference, Los Angeles, CA, August 3, 2016.
- T15. **Kuan EC**, Alonso JE, Arshi A, St. John MA. Nasopharyngeal Adenocarcinoma: a Population-Based Analysis. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, San Diego, CA, September 18, 2016.
- T16. **Kuan EC**, Alonso JE, Arshi A, St. John MA. Nasopharyngeal Lymphoma: a Population Based Analysis of 1,119 Cases. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, San Diego, CA, September 20, 2016.
- T17. **Kuan EC**, Yoo F, Patel PB, Su BM, Bergsneider M, Wang MB. An Algorithm for Sellar Reconstruction Following Transnasal Transsphenoidal Surgery: A Review of 300 Consecutive Cases. North American Skull Base Society Meeting, New Orleans, LA. March 4, 2017.
- T18. **Kuan EC**, Yao W, Francis NC, Grundfest WS, Taylor ZD, St. John MA. Laser Generated Shockwave Treatment of Bacterial Biofilms. Paul H. Ward, MD Society Scientific Session, UCLA Department of Head and Neck Surgery, Los Angeles, CA. June 9, 2017.
- T19. **Kuan EC**. New Insights in the Management of Recalcitrant Chronic Rhinosinusitis. UC Irvine Otolaryngology Grand Rounds, Orange, CA, October 16, 2017.
- T20. **Kuan EC**, Maina IW, Patel NN, Carey RM, Workman AD, Tong CC, Kohanski MA, Palmer JN, Adappa ND, Newman JG, Brant JA. Adenocarcinoma of the Sinonasal Tract: A Review of the National Cancer Database. North American Skull Base Society Meeting, Coronado, CA. February 16, 2018.

#### SCIENTIFIC POSTERS – FIRST AND LEAD AUTHOR

\* Total 90 abstracts presented as posters – available upon request

- P1. **Wu EC**, Zardouz S, Rothholtz VS, German M, Djalilian HR. Primary Care Physicians' Knowledge of Cochlear Implantation. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, Boston, MA, September 2010.
- P2. **Wu EC**, Jahanbakhshi R, Coale K, Zardouz S, Djalilian HR. Anatomic Dimensions of the Bony External Auditory Canal. Combined Sections Meeting of the Triological Society, Scottsdale, AZ, January 2011.
- P3. **Wu EC**, Sun V, Manuel CT, Protsenko DE, Jia WC, Wong BJ, Nelson JS. *Ex vivo* Evaluation of Laser Auricular Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Model.

- American Society of Laser Medicine and Surgery Annual Conference, Grapevine, TX, April 2011.
- P4. **Wu EC**, Chark D, Bhandarkar ND. Bilateral Juvenile Nasopharyngeal Angiofibroma: Report of a Case. American Rhinologic Society Section Meeting, Combined Otolaryngology Spring Meeting, San Diego, CA, April 2012.
- P5. **Wu EC**, Hamamoto A, Sun V, Jia WC, Protsenko DE, Manuel CT, Nguyen T, Wong BJ, Nelson JS. *In vivo* Laser Cartilage Reshaping with Carbon Dioxide Spray Cooling in a Rabbit Ear Model: A Pilot Study. American Society of Laser Medicine and Surgery Annual Conference, Boston, MA, April 2013.
- P6. **Wu EC**, Mahboubi H, Zardouz S, Yau AY, Rothholtz VS, Djalilian HR. Epidemiological Factors Influencing Access to Cochlear Implantation and Language Skills of Deaf and Hard-of-Hearing Children. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, Vancouver, BC, Canada, September 2013.
- P7. **Kuan EC**, Peng KA, Bhuta S, Palma Diaz MF, Zhang ZF, St. John MA. Basaloid Squamous Cell Carcinoma of the Maxilla: Report of a Case and Literature Review. Joint Meeting of the 5<sup>th</sup> World Congress of International Federation of Head and Neck Oncologic Societies and the Annual Meeting of the American Head and Neck Society, New York, NY, July 2014.
- P8. **Kuan EC**, Palma Diaz MF, Chiu AG, Bergnsneider M, Wang MB, Suh JD. Sinonasal and Skull Base Pleomorphic Adenoma: A Case Series and Literature Review. American Rhinologic Society at American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, Orlando, FL, September 2014.
- P9. **Kuan EC**, Tajudeen BA, Peng KA, Wang MB. Sinonasal Outcomes in Obstructive Sleep Apnea Syndrome. Combined Sections Meeting of the Triological Society, Coronado, CA, January 2015.
- P10. **Kuan EC**, Peng KA, Yoo F, Nelson SD, Abemayor E. Angiosarcoma of the Tongue: Case Report and Literature Review. Combined Sections Meeting of the Triological Society, Coronado, CA, January 2015.
- P11. **Kuan EC**, Peng KA, Yoo F, Nelson SD, Abemayor E. A Unique Presentation of a Synchronous Angiosarcoma of the Scalp and Squamous Cell Carcinoma of the Tonsil. Combined Sections Meeting of the Triological Society, Coronado, CA, January 2015.
- P12. **Kuan EC**, Tajudeen BA, Bhuta S, Palma Diaz MF, Kedeshian PA, Suh JD. Incidental Finding of Lymphoma Following Septoplasty. American Rhinologic Society Section Meeting, Combined Otolaryngology Spring Meeting, Boston, MA, April 2015.
- P13. **Kuan EC**, Mallen-St. Clair J, Badran KW, Palma Diaz MF, Blackwell KE, St John MA. Total Glossectomy Characteristics and Outcomes: The UCLA Experience. American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting and OTO EXPO, Dallas, TX, September 2015.
- P14. **Kuan EC**, Badran KW, Yoon AJ, Suh JD. Man's Best Friend, Rhinologist's Worst Nightmare: Canine Staphylococcus Pseudintermedius Sinonasal Infection in Human Hosts. American Rhinologic Society at American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, Dallas, TX, September 2015.
- P15. **Kuan EC**, Frederick JW, Bhuta SM, Berke GS, Abemayor E. Cribriform Molar Variant of Papillary Thyroid Carcinoma: Case Series and Literature Review. Combined Sections Meeting of the Triological Society, Miami Beach, FL, January 2016.
- P16. **Kuan EC**, Yoo F, Kim W, Heineman TE, Badran KW, Bergsneider M, Wang MB. Anatomic Variations in Pituitary Endocrinopathies: Implications for the Surgical Corridor. 26<sup>th</sup> Annual North American Skull Base Society Meeting, Scottsdale, AZ. February 2016.
- P17. **Kuan EC**, Yao W, Francis NC, Marton SD, Banh M, Castellanos M, Banashek V, St. John MA, Grundfest WS, Taylor ZD. Laser Generated Shockwaves Enhance Antibacterial Activity Against Biofilms *in vitro*. American Society of Laser Medicine and Surgery Annual Conference, Boston, MA, April 2016.

- P18. **Kuan EC**, Frederick JW, Palma Diaz MF, Lim DW, Suh JD. Near Complete Response of Skull Base Inverted Papilloma to Chemotherapy. American Rhinologic Society Section Meeting, Combined Otolaryngology Spring Meeting, Chicago, IL, May 2016.
- P19. **Kuan EC**, Alonso JE, Mallen-St. Clair J, Arshi A, St. John MA. Squamous Cell Carcinoma of the Retromolar Trigone: a Population-Based Analysis of 4,022 Cases. Annual Meeting of the American Head and Neck Society, Seattle, WA, July 2016.
- P20. **Kuan EC**, Alonso JE, Arshi A, Mallen-St. Clair J, St. John MA. Small Cell Carcinoma of the Head and Neck: a Comparative Study by Primary Site Based on Population Data. Annual Meeting of the American Head and Neck Society, Seattle, WA, July 2016.
- P21. **Kuan EC**, Tajudeen BA, Welch KC, Chandra RK, Suh JD. Aggressive Necrotizing Pseudomonal Sinonasal Infections: A Case Series. American Rhinologic Society at American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, San Diego, CA, September 2016.
- P22. **Kuan EC**, Yoo F, Chyu J, Oh A, Huang W, Bergsneider M, Wang MB. Quality of Life Before and After Endoscopic Pituitary Surgery as Measured by the SF-36. North American Skull Base Society Meeting, New Orleans, LA. March 2017.
- P23. **Kuan EC**, Wang MB. Laser-Assisted Control of Epistaxis in Hereditary Hemorrhagic Telangiectasia: A Systematic Review. American Society of Laser Medicine and Surgery Annual Conference, San Diego, CA, April 2017.
- P24. **Kuan EC**, Wang MB, St. John MA. Predictors of Short-Term Morbidity and Mortality in Open Anterior Skull Base Surgery. American Head and Neck Society Section Meeting, Combined Otolaryngology Spring Meeting, San Diego, CA, April 2017.
- P25. **Kuan EC**, Alonso JE, St. John MA, Tajudeen BA. New Insights into Predictors of Survival for Sinonasal Melanoma. American Rhinologic Society Section Meeting, Combined Otolaryngology Spring Meeting, San Diego, CA, April 2017.

## SERVICE

### American Academy of Otolaryngology-Head and Neck Surgery

2012-2017	UCLA residency co-representative, Section for Residents and Fellows (SRF)
2015	General Otolaryngology Sub-committee Centralized Otolaryngology Research Efforts (CORE) Study Section
2017	Head and Neck Surgery Sub-committee CORE Study Section

### American Rhinologic Society

2017-2020	International Liaison Committee
2017-	Program Committee <ul style="list-style-type: none"><li>• ARS at COSM 2018, National Harbor, MD</li><li>• ARS Annual Meeting 2018, Atlanta, GA</li></ul>
2018-	Moderator, Scientific Session <ul style="list-style-type: none"><li>• ARS at COSM 2018, National Harbor, MD</li></ul>

### American Society for Laser Medicine and Surgery

2015-2017	Resident/Fellow Board Representative
2015-2017	Early Career Committee
2015-2017	<i>Light Talk</i> Podcast Program Reviewer
2016-2017	Education, Standards, and Innovations Committee
2016-2017	Annual Conference Program Committee
2017-2018	Constitution and Bylaws Committee

**TEACHING**

- 2012-2017 Medical students, sub-interns, interns, and residents in clinical setting including operating room, inpatient wards, outpatient clinics, workshops, and conferences, UCLA Department of Head and Neck Surgery
- Lecture: “Inservice Jeopardy,” UCLA Head and Neck Surgery resident didactics (January 21, 2015)
  - Lecture: “R2 Year Orientation,” UCLA Head and Neck Surgery R2 didactics (July 8, 2015)
  - Lecture: “Rhinology Jeopardy,” UCLA Head and Neck Surgery resident didactics (October 19, 2016)
- 2017-2018 Medical students, sub-interns, interns, and residents in clinical setting including operating room, wards, clinics, and conferences, University of Pennsylvania Department of Otorhinolaryngology
- Lecture: “Introduction to Rhinology,” OTO 200 (third-year medical students) (September 5, 2017 and December 4, 2017)
  - Lecture: “Inservice Jeopardy,” Penn ORL Resident Didactics (January 25, 2018)
  - Instructor for ENT residents at the Penn Distinguished Skull Base Course dissection lab (February 2, 2018)
  - Case presentation (clival chordoma) for Penn rhinology and skull base surgery fellowship applicants (March 2, 2018; March 9, 2018; May 18, 2018)
  - Basic head and neck examination demonstration, OTO 200 (May 7, 2018; May 21, 2018)
- 2018- Undergraduates, medical students, sub-interns, interns, and residents in clinical setting including operating room, wards, clinics, and conferences, UCI Department of Otolaryngology

**PERSONAL**

Citizenship USA  
Languages Mandarin Chinese (native) and English