

NATHANIEL L. VILLANUEVA, M.D.

Education

7/2019-Present	University of Southern California Aesthetic Plastic Surgery Fellowship at Marina-Rox Plastic Surgery
2013-2019	University of Texas Southwestern Plastic Surgery Residency
2008-2013	Mount Sinai School of Medicine: Doctor of Medicine
2003-2007	University of Southern California: College of Letters Arts and Sciences Bachelor of Science in Kinesiology

Honors and Awards

UTSW Department of Plastic Surgery Award for Highest In-Service Exam Score [June 2017]
Harold Elster Memorial Prize for Highest Academic Standing for Class of 2013 [May 2013]
Graduation with Distinction in Research [May 2013]
Alpha Omega Alpha Medical Honor Society Member [September 2012]
AMA Physicians of Tomorrow Scholarship- Mount Sinai Nominee [June 2012]
Arnold P. Gold Humanism Honor Society Member [September 2011]
Steven H. Sacks Clinical Research Fellowship [August 2011-July 2012]
2nd Place Winner for The New York Regional Society of Plastic Surgeons Annual Resident's Night (Awarded for second best oral presentation on maxillofacial hardware complications and indications for salvage) [March 2011]
Mount Sinai Summer Research Fellowship [Summer 2009]
USC College of Letters Arts and Sciences Dean's List [Fall 2005, Fall 2006, Spring 2007, Fall 2007]
National Dean's List [2006-2007]
Best Physiology Project and Presentation to the Department of Kinesiology at USC [Spring 2007]
Rose Hill's Foundation Summer Science and Engineering Fellowship [Summer 2007]
University of Southern California Provost's Research Fellowship [Fall 2007]
University of Southern California Varsity Letterman in Rugby [2003-2006]

Publications

6/2019	<i>Nasal Analysis: Considerations for Ethnic Variation.</i> Villanueva NL, Afrooz PN, Carboy JA, Rohrich RJ. <i>Plastic and Reconstructive Surg.</i> 143 (6), 1179e-1188e
5/2019	<i>Subcutaneous Migration: A Dynamic Anatomical Study of Gluteal Fat Grafting.</i> Wall S, Delvecchio D, Teitelbaum S, Villanueva NL, Dayan E, Durand P, Sanniec K, Rohrich RJ. <i>Plastic and Reconstructive Surg.</i> 143 (5), 1343-1351
2/2019	<i>Reply: Refinements in Upper Blepharoplasty: The Five-Step Technique</i> RJ Rohrich, NL Villanueva, PN Afrooz. <i>Plastic and Reconstructive Surg.</i> 143 (2), 435e

- 11/2018 *PRS Video Plus: Response.* Rohrich RJ, **Villanueva NL**, Afrooz PN. Plastic and Reconstructive Surg.
- 11/2018 *Clinical Implications of Gluteal Fat Graft Migration: A Dynamic Anatomical Study.* Delvecchio DA, **Villanueva NL**, Mohan R, Johnson B, Wan D, Venkataram A, Rohrich RJ. Plastic and Reconstructive Surg. 142(5):1180-1192.
- 7/2018 *Gluteal Ligamentous Anatomy and Its Implication in Safe Buttock Augmentation.* Ghavami A, **Villanueva NL**, Amirlak B. Plastic and Reconstructive Surg. 142(2):363-371.
- 5/2018 *Refinements in Upper Blepharoplasty: The Five-Step Technique.* Rohrich RJ, **Villanueva NL**, Afrooz PN. Plast Reconstr Surg. 141(5):1144-1146.
- 4/2018 *Gluteal Augmentation and Contouring with Autologous Fat Transfer: Part I.* Ghavami A, **Villanueva NL**. Clin Plast Surg. 45(2):249-259.
- 1/2018 *Staying Safe during Gluteal Fat Transplantation.* **Villanueva NL**, Del Vecchio DA, Afrooz PN, Carboy JA, Rohrich RJ. Plastic and Reconstructive Surg. 141 (1), 79-86.
- 9/2017 *Implications of Facial Asymmetry in Rhinoplasty.* Rohrich RJ, **Villanueva NL**, Small KH, Pezeshk RA. Plastic and reconstructive surgery 140 (3), 510-516.
- 4/2017 *Commentary on: Cosmetic Liposuction: Preoperative Risk Factors, Major Complication Rates, and Safety of Combined Procedures.* Villanueva NL, Kenkel JM. Aesthetic surgery journal 37 (6), 695-69
- 12/2016 *Review of 3-dimensional Facial Anatomy: Injecting Fillers and Neuromodulators.* Sieber DA, Scheuer III JF, **Villanueva NL**, Pezeshk RA, Rohrich RJ. Plastic and Reconstructive Surgery Global Open 4 (12 Suppl).
- 7/2016 *How we do it: the Running-X suture technique.* **Villanueva NL**, Sanniec K, Mancini R. Plastic and Aesthetic Research. (3), 245-7.
- 6/2016 *Review of Maxillofacial Hardware Complications and Indications for Salvage.* Rosa JH, **Villanueva NL**, Sanati-Mehrizy P, Factor SH, Taub PJ. Craniomaxillofacial Trauma and Reconstruction 9 (02), 134-140.
- 12/2015 *Technical Refinements in Autologous Hand Rejuvenation.* **Villanueva NL**, Hill SM, Small KH, Rohrich RJ. Plastic and Reconstructive Surgery. 136 (6), 1175-1179.

- 10/2015 *Rho/Rock signal transduction pathway is required for MSC tenogenic differentiation.* Maharam E, Yaport M, **Villanueva NL**, Akinyibi T, Laudier D, He Z, Leong D, Sun HB. *Nature: Bone research.* (3), 15015
- 10/2014 *Identification of Key Themes Related to Quality of Life in Cleft Lip and Palate Patients.* Sanati-Mehrizi P, **Villanueva NL**, Rosa JH, Wu R, Eckstein D, Wasserburg JR, Silver L, Taub PJ. *Plastic and Reconstructive Surgery* 134 (4S-1), 166.
- 8/2014 *Research Productivity and Gender Disparities among Academic Plastic Surgeons.* Paik AM, LJ Mady, **Villanueva NL**, Goljo E, Svider PF, Ciminello F, Eloy JA. *Journal of Surgical Education.* (4), 593-600.
- 7/2014 *Preferences and Utilities for Health States Following Treatment for Oropharyngeal Cancer: Transoral Robotic Surgery versus (Chemo)Radiotherapy.* De Almeida JR, **Villanueva NL**, Miles BA, Teng MS, Gurudutt V, Sikora A, Gupta V, Misiukiewicz K, Posner M, Genden EM. *Head & Neck: Journal for The Sciences & Specialties of The Head and Neck.* 36 (7), 934-941.
- 7/2014 *A Reconstructive Algorithm and Classification System for Transoral Oropharyngeal Defects.* De Almeida JR, Park CW, **Villanueva NL**, Miles BA, Teng MS, Genden EM. *Head & Neck: Journal for The Sciences & Specialties of The Head and Neck.* 36 (7), 923-933.
- 5/2014 *Trans-Scaphoid Trans-Lunotriquetral Perilunate Dislocation in a Patient with a Carpal Coalition.* Xipoleas G, **Villanueva NL**, Ting J. *Plastic and Reconstructive Surgery Global Open.* 2 (5), e144
- 1/2014 *Transoral Robotic Surgery for Oropharyngeal Minor Salivary Gland Tumors.* **Villanueva NL**, de Almeida JR, Sikora AG, Miles BA, Genden EM. *Head & Neck: Journal for The Sciences & Specialties of The Head and Neck.* (1), 28-33
- 5/2011 *Maxillofacial Hardware Complications and Indications for Salvage.* Pinsky B, Rosa JH, **Villanueva NL**, Taub PJ, Factor SH. *Plastic and Reconstructive Surgery: Volume 127 Supplement 5S, PSRC Abstract Supplement,* p 66.

Presentations

- 4/27/2018 **Podium Presentation at 2018 The American Society for Aesthetic Plastic Surgery: The Aesthetic Meeting. New York, NY. Novel Use of 3% Tranexamic Acid During Facial Injection Procedures.** **Villanueva NL**, Kirkpatrick R, Rohrich RJ.

- 9/24/2016 **Podium Presentation at 2016 Plastic Surgery: The Meeting; Los Angeles, CA.** *Implications of Facial Asymmetry in Rhinoplasty.* Villanueva NL, Pezeshk R, Small KH, Rohrich RJ.
- 9/9/2016 **Podium Presentation at 2016 Conference – Texas Society of Plastic Surgeons; San Antonio, TX.** *Implications of Facial Asymmetry in Rhinoplasty.* Villanueva NL, Pezeshk R, Small KH, Rohrich RJ.
- 10/10/2014 **Poster Presentation at 2014 Plastic Surgery: The Meeting; Chicago, IL.** *Identification of Key Themes Related to Quality of Life in Cleft Lip and Palate Patients.* Sanati-Mehrizy P, Villanueva NL, Rosa JH, Wu R, Eckstein D, Wasserburg JR, Silver L, Taub PJ.
- 4/10/2013 **Poster Presentations at American Head and Neck Society, Combined Otolaryngology Spring Meeting. Orlando, FL.** *Combined Inhibition of COX2 and iNOS suppresses tumor-infiltrating myeloid cells and inhibits growth of metastatic Head and Neck Squamous Cell Carcinoma in a Murine Model.* Svider PF, Goljo E, Villanueva NL, Jayaraman P, Alfarano M, Rivera EL, Parikh F, Estrada Y, Aguirre-Ghiso J, Sikora AG.
- The Prognostic Significance of Extracapsular Spread in HPV-Associated Oropharyngeal Squamous Cell Carcinoma.* Keeley BR, Prisman E, Villanueva NL, Goljo E, Genden EM, Sikora AG.
- 11/8/2012 **Podium Presentation at Mount Sinai School of Medicine 18th Annual Medical Student Research Day. New York, NY.** *Combined Inhibition of COX2 and iNOS Arrests Metastasis in Murine Model of Head and Neck Squamous Cell Carcinoma.* Villanueva NL, Svider P, Goljo E, Alfarano M, Jayaraman P, Rivera EL, Parikh F, Estrada Y, Aguirre-Ghiso J, Sikora AG.
- 11/8/2012 **Poster Presentations at Mount Sinai School of Medicine 18th Annual Medical Student Research Day. New York, NY.** *Transoral Robotic Surgery for the Management of Oropharyngeal Minor Salivary Tumors.* Villanueva NL, de Almeida JR, Sikora A, Miles BA, Genden EM.
- Combined Inhibition of COX2 and iNOS Arrests Early Metastasis in Murine Model of Head and Neck Squamous Cell Carcinoma.* Goljo E, Villanueva NL, Svider P, Alfarano M, Jayaraman P, Rivera EL, Parikh F, Estrada Y, Aguirre-Ghiso J, Sikora AG.
- Papillomavirus-Associated Oropharyngeal Cancer.* Ramer I, Villanueva NL, Goljo E, Zhang D, Posner M, Misiukiewicz K, Sikora AG.
- 10/1/2012 **Poster Presentation at Cancer Research Institute- Cancer Immunotherapy Symposium. New York, NY.** *Combined Inhibition of COX2 and iNOS Arrests Metastasis in Murine Model of Head and Neck Squamous Cell Carcinoma.* Svider P, Goljo E, Villanueva NL, Alfarano M, Jayaraman P, Rivera EL, Parikh F, Estrada Y, Aguirre-Ghiso J, Sikora AG.
- 7/21/2012 **Podium Presentations at the 8th International Conference on Head & Neck Cancer. Toronto, Ontario, Canada.** *Association between Serum Nitrite Levels*

and Tumor Stage, HPV Serology, and p16 Status in Patients with Locoregionally-Advanced Head and Neck cancer. Villanueva NL, Clark A, Acosta L, Jayaraman P, Ferris R, Sikora A.

A Multi-institutional Transoral Robotic Surgery (TORS) for Oropharyngeal Cancer Outcomes Study. de Almeida JR, Duvvuri U, Holsinger C, Magnuson S, Miles B, Moore E, Sikora A, Smith R, Stucken C, Teng M, Villanueva NL, White H, Genden EM.

7/21/2012 **Poster Presentations at the 8th International Conference on Head & Neck Cancer. Toronto, Ontario, Canada.** *Transoral Robotic Surgery for the Management of Oropharyngeal Minor Salivary Tumors.* Villanueva NL, de Almeida JR, Sikora A, Miles BA, Genden EM.

Deriving Utilities and Preferences for Health States following treatment for Oropharyngeal Cancer: Pilot work for cost-utility analysis of TORS vs. (chemo) radiotherapy. De Almeida JR, Villanueva NL, Miles BA, Teng MS, Gurudutt V, Sikora A, Gupta V, Misiukiewicz K, Posner M, Genden EM.

6/12/2012 **Poster Presentation at the Doris Duke Clinical Research Fellows Meeting 2012, New Haven, CT.** *Qualitative and Quantitative Analysis of High Resolution Microendoscopy for Intraoperative Margin Detection in Head and Neck Cancer.* Levy LL, Villanueva NL, Vila P, Quinn MK, Miles B, Polydorides A, Teng M, Anadasabapathy S, Gurudutt V, Genden E, Kortum RR, Sikora AG.

4/27/2011 **Podium Presentation at the 56th Annual Meeting of the Plastic Surgery Research Council. Louisville, KY.** *Maxillofacial Hardware Complications and Indications for Salvage.* Pinsky B, Rosa JH, Villanueva NL, Taub PJ, Factor SH.

3/14/2011 **Podium Presentation at New York Regional Society of Plastic Surgeons-Annual Resident's Night. New York, NY.** *Maxillofacial Hardware Complications and Indications for Salvage.* Pinsky B, Rosa JH, Villanueva NL, Taub PJ, Factor SH

6/8/2010 **Poster Presentation at Mount Sinai School of Medicine 1st Annual Consortium for Graduate Medical Education's Research. New York, NY.** *Maxillofacial Hardware Complications and Indications for Salvage.* Rosa JH, Villanueva NL, Pinsky B, Taub PJ, Factor SH.

3/6/2010 **Poster Presentation at Orthopaedic Research Society 56th Annual Meeting. New Orleans, LA.** *Smad8 Activation: Common Signaling Pathway That May Be Required For BMP12 and Mechanical Loading Induced Mesenchymal Stem Cell Teno-Differentiation.* Ramcharan M, Li Z, Lee JY, Sereysky JB, Villanueva NL, Nasser P, Majeska RJ, Flatow EL, Sun HB.

11/16/2009 **Poster Presentations at Mount Sinai School of Medicine 15th Annual Medical Student Research Day. New York, NY.** *Actin Polymerization is Required for Mesenchymal Stem Cell Differentiation Toward Tenocytes on Silk Scaffold.* Villanueva NL, Maharam E, Ramcharan M, Ross S, Laudier D, Flatow EL, Sun HB.

Complication and Removal Rates among Trauma Patients Who Require Insertion of Facial Hardware. Rosa JH, Villanueva NL, Pinsky B, Taub PJ, Factor SH.

Bench Research Experience

[8/2011-8/2012] Steven H. Sacks Clinical Research Fellowship

Awarded the Mount Sinai Department of Otolaryngology research fellowship to perform a scholarly year of research in various clinical and translational studies. Designed and performed a multi-institutional transoral robotic surgery outcomes analysis in various oropharyngeal cancer populations. Performed cost and utility analysis of transoral robotic surgery. Designed and performed various clinical, translational and basic science projects in head and neck cancer.

[6/2009-8/2009] Mount Sinai Summer Research Fellowship in Tendon Engineering with Mesenchymal Stem Cell

Performed an original study determining the mechanism required for mesenchymal cell differentiation to tenocytes. Assisted on a project determining the biochemical pathway required for BMP12 and mechanical loading induced mesenchymal cell differentiation toward tenocytes.

[1/2007 – 7/2008]-USC Department of Kinesiology Laboratory Technician

Worked at University of Southern California Department of Kinesiology as a Laboratory Technician. Became certified in Laboratory Safety and Vivarium use. Performed *in-vivo* studies which required surgical techniques, pre and post-op care, prepared for and completed experiments. Also performed ELISA's, immunohistochemical analysis and completed all data analysis.

Leadership and Teaching Experience

- 2/2020 – Present **Chief Executive Officer** at NV Aesthetics, Inc. Marina Del Rey, CA
- 12/2002 – Present **Chairman of the Board** at Duarte Tile and Stone Inc. Duarte, CA.
- 3/2020 **Dallas Rhinoplasty and Cosmetic Symposium Anatomic Instructor.** Guided meeting participants through various procedures on the anatomic specimens including facelifts, necklifts, blepharoplasties, browlifts, filler injections, and rhinoplasties
- 2/2018-2/2019 **Galderma Aesthetic Injector Network Anatomic Dissection Instructor**
Guided Galderma's lead injection instructors through anatomic dissections and safety of facial fillers and injectables.
- 9/2013-8/2018 **Plastic Surgery Suture Workshop Leader.** Lead various workshops teaching suture tying skills to the medical students at UT Southwestern starting their surgery rotation.
- 6/2011-5/2013 **Admission Committee Member** at Mount Sinai School of Medicine.
Screened and interview applicants for the 2012 admissions season.

- 8/2011-5/2013 **Mount Sinai Student Mentors** in the Art and Science of Medicine course. Teach first and second year medical students history, physical exam, and diagnostic skills.
- 11/2011-5/2013 **Test Prep NYC Tutor.** Work as a private tutor for medical students preparing for USMLE step 1 and step 2.
- 3/2011-5/2013 **Senior Peer Tutor** for the medical students at Mount Sinai School of Medicine identified by the administration as having learning disabilities or difficulty with medical school course work within the first three years.
- 3/2011-5/2013 **Student Council Athletic Chair.** Help organize fitness and wellness related activities and obtained funding for student participation in NYC sports leagues.
- 6/2012-12/2012 **Senior Anatomy Teaching Assistant Coordinator** at Mount Sinai School of Medicine (highest TA position in the course granted to two fourth year students annually). Coordinated all TA activities, evaluate student's knowledge via in lab oral exams, give senior TA review sessions on various topics, and assist with cadaveric dissections.
- 6/2011-12/2012 **Senior Anatomy Teaching Assistant** for the first year medical students at Mount Sinai School of Medicine. Evaluated students knowledge via in lab oral exams, gave senior TA review sessions on various topics, assisted with dissections.
- 6/2012 **Clinical Skills Week Preceptor.** Taught IV insertion techniques to third year medical students.
- 3/2012 **Intersession Week Preceptor** at Mount Sinai School of Medicine. Taught third year medical students about stress management, work-life balance and teaching skills.
- 1/2012-12/2012 **Fellows as Mentors Program** at Mount Sinai School of Medicine. Serve as a research mentor for first and second year medical students interested in clinical and translational research.
- 6/2011-5/2013 **Suture Workshop Leader.** Lead various workshops teaching suture tying skills for different surgical interest groups and the MedStart program at Mount Sinai.
- 8/2009 – 6/2010 **President and Treasurer** of the Plastic Surgery Interest Group at Mount Sinai School of Medicine
- 9/2003 – 11/2010 **Chief Information Officer** at Duarte Tile and Stone LLC. 245 S. Rosemead Blvd. Pasadena, CA.
- 8/2009-12/2009 **Head Junior Anatomy Teaching Assistant** for the first year medical students at Mount Sinai School of Medicine. Coordinated Junior TA review sessions and assisted students with cadaveric dissections.

1997 – 8/2008 **Youth Leader** at the Christian Congregation of the United States. 2877 West Valley Boulevard Alhambra, CA. Provided guidance pertaining to church and school related issues for young members of the church.

Volunteer Experience

5/2012– Present **Medical Volunteer** for Christian Congregation in the United States, Provided medical recommendations and POC care when needed for participants locally and at large national meetings.

6/2010– 3/2013 **Senior Clinician** at East Harlem Outreach Partnership in The Center for Advanced Medicine on 17 East 102nd Street New York, NY 10029. Provided care for uninsured patients and guided them in obtaining health related financial aid when possible.

8/2008– 6/2010 **Junior Clinician** at East Harlem Outreach Partnership in the Center for Advanced Medicine on 17 East 102nd Street New York, NY 10029. Provided care for uninsured patients.

6/2007- Present **Bass Clarinet Player** at Christian Congregation of the United States Orchestra. Play in a volunteer orchestra on a weekly basis.

4/18/2009 **Student Volunteer** at the annual Mount Sinai Community Health Fair. Explained to patients the clinical evaluations they would undergo and helped translate for Spanish-speaking patients.

8/2005 – 7/2008 **Collegiate Medical Volunteer** at Los Angeles County University of Southern California Hospital in Los Angeles, CA. Translated for the Spanish-speaking patients.

Extracurricular Activities and Skills

Languages Fluent in Spanish and Portuguese

Activities Power lifting and bodybuilding, Blue Belt in Brazilian Jiu Jitsu, Basketball, Golf, Snowboarding, Wakeboarding, Surfing, and Boating.