

CURRICULUM VITAE

María Geraldine Zúñiga Manrique, M.D.

PRACTICE:

Address: Ear Medical Group
21 Spurs Lane, Suite 245
San Antonio, Texas 78240

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PREVIOUS APPOINTMENTS:

4/2019-6/2022 Otolaryngology, Neurotology and Skull Base Fellow at Hannover Medical School (Medizinische Hochschule Hannover; MHH), Germany – under Prof. Thomas Lenarz mentorship.

8/2018 – 2/2019 Otolaryngology-Head and Neck Surgeon at Hospital Zambrano Hellión of Sistema Tec Salud Monterrey, NL Mexico.

7/2013- 6-2018 Otolaryngology-Head and Neck Surgery Resident Physician at Vanderbilt University Medical Center – detailed below.

2010 - 5/2013 Research Staff, Vestibular Scientist, Vestibular Laboratory
The Johns Hopkins University School of Medicine

2011 - 5/2013 Assigned Site Study Coordinator at The Johns Hopkins Hospital – Otolaryngology Head and Neck Surgery for the Otonomy Phase II Meniere’s Disease Study

EDUCATION AND POSTGRADUATE TRAINING

Since 4/2019 Otolaryngology, Neurotology and Skull Base Fellow at Hannover Medical School (Medizinische Hochschule Hannover; MHH), Germany – under Prof. Thomas Lenarz mentorship. (*Expected date of completion October, 2021*).

- 7/2017 - 6/2018 Chief Resident Physician in the Otolaryngology Residency Training Program, Vanderbilt University Medical Center, USA
- 7/2013 - 6/2018 Resident Physician in the Otolaryngology Residency Training Program, Vanderbilt University Medical Center, USA
- 8/2004 - 2/2011 M.D., Escuela de Medicina Ignacio A. Santos del Tec de Monterrey (ITESM), Mexico

International clinical electives:

- 4-5/2009 Otolaryngology Head & Neck Surgery
The Johns Hopkins University School of Medicine
- 5-6/2009 Clinical Oncology
The Johns Hopkins University School of Medicine
- 7-9/2009 Otolaryngology Head & Neck Surgery – Observership
Miami Children’s Hospital

INTERNATIONAL MEDICAL CREDENTIALS CERTIFICATIONS

- 2/2011 License to practice medicine in Mexico
- 8/2012 ECFMG Certification: Certificate No. 0-814-698-7
- 8/2020 German license to practice medicine (deutsche Approbation als Ärztin)

OTOLARYNGOLOGY SPECIALTY BOARD CERTIFICATION

- USA: 6/2019 Diplomate, American Board of Otolaryngology- Head and Neck Surgery
- Germany: 12/2020 German credential as Otolaryngology specialist (deutsche Facharzt für Hals-, Nasen-, Ohrenheilkunde)

MEMBERSHIP AND HONORARY/PROFESSIONAL SOCIETIES

Member of the AAO-HNS

Member of the Association for Research in Otolaryngology

Member of the American College of Surgeons

RESEARCH EXPERIENCE & PUBLICATIONS

Reviewer of the following peer-reviewed journals:

Otology and Neurotology

JAMA Otolaryngology – Head and Neck Surgery

Journal of the American Academy of Audiology

Ear and Hearing Journal

***h*-index: 18.**

Peer Reviewed Journal Articles:

1. **Zuniga MG**, Hügl S, Engst BG, Lenarz T, Rau TS. The Effect of Ultra-slow Velocities on Insertion Forces: A Study Using a Highly Flexible Straight Electrode Array. *Otol Neurotol*. 2021 Apr 20. doi: 10.1097/MAO.0000000000003148. Epub ahead of print. PMID: 33883518.
2. **Zuniga MG**, Schell A, Engst BG, Carey JP. Reducing Sound Exposure During Ocular Vestibular Evoked Myogenic Potential Testing for Superior Semicircular Canal Dehiscence Syndrome. *Otol Neurotol*. 2021 Mar 8. doi: 10.1097/MAO.0000000000003084. Epub ahead of print. PMID: 33710145.
3. Rau TS, **Zuniga MG**, Salcher R, Lenarz T. “A simple tool to automate the insertion process in cochlear implant surgery”. *IJCARS* (2020). <https://doi.org/10.1007/s11548-020-02243-7>
4. Van Beck J, Chinnadurai S, Morrison AK, **Zuniga MG**, Smith B, Lohse CM, McCaslin D. “Correlation of air-bone gap and size of Enlarged Vestibular Aqueduct in children.” *Int J Pediatr Otorhinolaryngol*. 2020 Feb 4;132:109909. doi: 10.1016/j.ijporl.2020.109909. PMID: 32032917 <https://www.ncbi.nlm.nih.gov/pubmed/32032917>
5. Shinn JR, Jayawardena ADL, Patro A, **Zuniga MG**, Netterville JL. “Teacher Prescreening for Hearing Loss in the Developing World.” *Ear Nose Throat J*. 2019 Oct 13;145561319880388. doi: 10.1177/0145561319880388. [Epub ahead of print] PMID: 31608682
6. Rau TS, Kreul D, Lexow J, Hügl S, **Zuniga MG**, Lenarz T, Majdani O. “Characterizing the size of the target region for atraumatic opening of the cochlea through the facial recess.” *Comput Med Imaging Graph*. 2019 Oct;77:101655. doi: 10.1016/j.compmedimag.2019.101655. Epub 2019 Aug 30. PMID: 31539862
7. Shinn JR, **Zuniga MG**, Macharia I, Reppart J, Netterville JL, Jayawardena ADL. “Community health workers obtain similar results using cell-phone based hearing screening tools compared to otolaryngologists in low resourced settings.” *Int J Pediatr Otorhinolaryngol*. 2019 Dec;127:109670. doi: 10.1016/j.ijporl.2019.109670. Epub 2019 Sep 5. PMID: 31518844

8. Baxter M, McCorkle C, Trevino Guajardo C, **Zuniga MG**, Carter AM, Della Santina CC, Minor LB, Carey JP, Ward BK. "Clinical and Physiologic Predictors and Postoperative Outcomes of Near Dehiscence Syndrome." *Otol Neurotol.* 2019 Feb;40(2):204-212. doi: 10.1097/MAO.0000000000002077. PMID: 30570606 <https://www.ncbi.nlm.nih.gov/pubmed/30570606>
9. Dillon N, Fichera L, Kesler K, **Zuniga MG**, Mitchell JE, Webster RJ, Labadie RF. "Pre-operative screening and manual drilling strategies to reduce the risk of thermal injury to the facial nerve during minimally invasive cochlear implantation surgery". *Annals of Biomedical Engineering.* 2017 Sep;45(9):2184-2195. doi: 10.1007/s10439-017-1854-0. PMID: 28523516 <https://www.ncbi.nlm.nih.gov/pubmed/28523516>
10. Rivas A, Cakir A, Hunter JB, Labadie RF, **Zuniga MG**, Wanna GB, Dawant BM, Noble JH. "Automatic Cochlear Duct Length Estimation for Selection of Cochlear Implant Electrode Arrays." *Otol Neurotol.* 2017 Mar;38(3):339-346. doi: 10.1097/MAO.0000000000001329. PMID: 28146009 <https://www.ncbi.nlm.nih.gov/pubmed/28146009>
11. **Zuniga MG**, Rivas A, Hedley-Williams A, Gifford RH, Dwyer R, Dawant BM, Sunderhaus LW, Hovis KL, Wanna GB, Noble JH, Labadie RF. "Tip Fold-over in Cochlear Implantation: Case Series." *Otol Neurotol.* 2017 Feb;38(2):199-206. doi: 10.1097/MAO.0000000000001283. PMID: 27918363 <https://www.ncbi.nlm.nih.gov/pubmed/27918363>
12. Cakir A, Labadie RF, **Zuniga MG**, Dawant BM, Noble JH. "Evaluation of Rigid Cochlear Models for Measuring Cochlear Implant Electrode Position". *Otol Neurotol.* 2016 Dec;37(10):1560-1564. PMID: 27755453 <https://www.ncbi.nlm.nih.gov/pubmed/27755453>
13. O'Connell BP, Cakir A, Hunter JB, Francis DO, Noble JH, Labadie RF, **Zuniga G**, Dawant BM, Rivas A, Wanna GB. "Electrode Location and Angular Insertion Depth Are Predictors of Audiologic Outcomes in Cochlear Implantation." *Otol Neurotol.* 2016 Sep;37(8):1016-23. doi: 10.1097/MAO.0000000000001125. PMID: 27348391 <https://www.ncbi.nlm.nih.gov/pubmed/?term=27348391>
14. Hunter JB, **Zuniga MG**, Leite J, Killeen D, Wick C, Ramirez J, Rivas JA, Nogueira JF, Isaacson B, Rivas A. "Surgical and Audiologic Outcomes in Endoscopic Stapes Surgery across 4 Institutions". *Otolaryngol Head Neck Surg.* 2016 Mar 22. pii: 0194599816633654. PMID: 27006295 <http://www.ncbi.nlm.nih.gov/pubmed/27006295>
15. Hunter JB, **Zuniga MG**, Sweeney AD, Bertrand NM, Wanna GB, Haynes DS, Wootten CT, Rivas A. "Pediatric Endoscopic Cholesteatoma Surgery". *Otolaryngol Head Neck Surg.* 2016 Jun;154(6):1121-7. doi: 10.1177/0194599816631941. Epub 2016 Mar 1. PMID: 26932974 <http://www.ncbi.nlm.nih.gov/pubmed/26932974>
16. **Zuniga MG**, Turner JH, Chandra RK. "Updates in anterior skull base reconstruction". *Curr Opin Otolaryngol Head Neck Surg.* 2016 Feb;24(1):75-82. doi: 10.1097/MOO.0000000000000223. PMID: 26735312 <http://www.ncbi.nlm.nih.gov/pubmed/26735312>
17. Sweeney AD, Carlson ML, **Zuniga MG**, Bennett ML, Wanna GB, Haynes DS, Rivas A. Impact of Perioperative Oral Steroid Use on Low-frequency Hearing Preservation After Cochlear Implantation. *Otol Neurotol.* 2015 Sep;36(9):1480-5. doi: 10.1097/MAO.0000000000000847. PMID: 26375969 <http://www.ncbi.nlm.nih.gov/pubmed/26375969>
18. Ward BK, Wenzel A, Kalyani RR, Agrawal Y, Feng AL, Polydefkis M, Ying HS, Schubert MC, **Zuniga MG**, Della Santina CC, Carey JP. "Characterization of Vestibulopathy in Individuals

- with Type 2 Diabetes Mellitus.” *Otolaryngol Head Neck Surg.* 2015 Jul;153(1):112-8. doi: 10.1177/0194599815576717. Epub 2015 Mar 31. PMID: 25829391 <http://www.ncbi.nlm.nih.gov/pubmed/25829391>
19. Janky KL, **Zuniga MG**, Schubert MC, Carey JP. “The effect of increased intracranial pressure on vestibular evoked myogenic potentials in superior canal dehiscence syndrome.” *Clin Neurophysiol.* 2014 Jul 18. pii: S1388-2457(14)00397-6. doi: 10.1016/j.clinph.2014.06.049. PMID: 25103787 <http://www.ncbi.nlm.nih.gov/pubmed/25103787>
 20. Davalos-Bichara M, **Zuniga MG**, Agrawal Y, Carey JP, Schubert MC. “Forward and backward locomotion in individuals with dizziness.” *Gait Posture.* 2014 Sep;40(4):499-503. doi: 10.1016/j.gaitpost.2014.06.008. Epub 2014 Jul 5. PMID: 25042815 <http://www.ncbi.nlm.nih.gov/pubmed/25042815>
 21. **Zuniga MG**, Davalos-Bichara M, Schubert MC, Carey JP, Janky KL. “Optimizing ocular vestibular evoked myogenic potential testing for superior semicircular canal dehiscence syndrome: electrode placement”. *Audiol Neurootol.* 2014;19(4):239-47. doi: 10.1159/000360124. Epub 2014 Jul 2. PMID: 24993062 <http://www.ncbi.nlm.nih.gov/pubmed/24993062>
 22. Li C, **Zuniga MG**, Nguyen KD, Carey JP, Agrawal Y. “How to interpret latencies of cervical and ocular vestibular-evoked myogenic potentials: Our experience in fifty-three participants.” *Clin Otolaryngol.* 2014 Oct;39(5):297-301. doi: 10.1111/coa.12277. PMID: 24962335 <http://www.ncbi.nlm.nih.gov/pubmed/24962335>
 23. **Zuniga MG**, Turner JH. “Treatment outcomes in acute invasive fungal rhinosinusitis.” *Curr Opin Otolaryngol Head Neck Surg.* 2014 Jun;22(3):242-8. doi: 10.1097/MOO.0000000000000048. PMID: 24756031 <http://www.ncbi.nlm.nih.gov/pubmed/24756031>
 24. Janky KL, **Zuniga MG**, Ward B, Carey JP, Schubert MC. “Canal plane dynamic visual acuity in superior canal dehiscence.” *Otol Neurotol.* 2014 Jun;35(5):844-9. doi: 10.1097/MAO.0000000000000336. PMID: 24662636 <http://www.ncbi.nlm.nih.gov/pubmed/?term=24662636>
 25. Sun DQ, **Zuniga MG**, Davalos-Bichara M, Carey JP, Agrawal Y. “Evaluation of a bedside test of utricular function - the bucket test - in older individuals.” *Acta Otolaryngol* 2014 Apr;134(4):382-9. doi: 10.3109/00016489.2013.867456. Epub 2014 Jan 27. PMID: 24460151 <http://www.ncbi.nlm.nih.gov/pubmed/24460151>
 26. Agrawal Y, Davalos-Bichara M, **Zuniga MG**, Carey JP. “Head Impulse Test Abnormalities and Influence on Gait Speed and Falls in Older Individuals”. *Otol Neurotol* 2013 Dec;34(9):1729-35. doi: 10.1097/MAO.0b013e318295313c. PMID: 23928523 <http://www.ncbi.nlm.nih.gov/pubmed/23928523>
 27. **Zuniga MG**, Janky KL, Nguyen K, Welgampola M, Carey JP. “Ocular vs. Cervical VEMPs in the Diagnosis of Superior Semicircular Canal Dehiscence Syndrome.” *Otol Neurotol.* 2013 Jan;34(1):121-6. doi: 10.1097/MAO.0b013e31827136b0. PMID: 23183641 <http://www.ncbi.nlm.nih.gov/pubmed/23183641>
 28. **Zuniga MG**, Davalos-Bichara M, Schubert MC, Walston J, Carey JP, Agrawal Y. “Association between Hearing Loss and Saccular Dysfunction in Older Individuals.” *Otol Neurotol.* 2012 Dec;33(9):1586-92. doi: 10.1097/MAO.0b013e31826bedbc. PMID: 23064383 <http://www.ncbi.nlm.nih.gov/pubmed/23064383>

29. Janky KL, Nguyen K, Welgampola M, **Zuniga MG**, Carey JP. "Air-conducted oVEMPs provide the best separation between the intact and dehiscence labyrinth." *Otol Neurotol*. 2013 Jan;34(1):127-34. doi: 10.1097/MAO.0b013e318271c32a. PMID: 23151775 <http://www.ncbi.nlm.nih.gov/pubmed/23151775>
30. Janky KL, **Zuniga MG**, Carey JP, Schubert M. "Balance Dysfunction and Recovery After Surgery for Superior Canal Dehiscence Syndrome." *Arch Otolaryngol Head Neck Surg*. 2012 Jul;16:1-8. doi: 10.1001/archoto.2012.1329. PMID: 22801722 <http://www.ncbi.nlm.nih.gov/pubmed?term=22801722>
31. Agrawal Y, **Zuniga MG**, Davalos-Bichara M, Schubert MC, Walston J, Carey JP. "Decline in semicircular canal and otolith function with age." *Otol Neurotol*. 2012 Jul;33(5):832-9. PMID: 22699991 <http://www.ncbi.nlm.nih.gov/pubmed?term=22699991>
32. **Zuniga MG**, Janky KL, Schubert MC, Carey JP. Can Vestibular-Evoked Myogenic Potentials Help Differentiate Ménière Disease from Vestibular Migraine? *Otolaryngol Head Neck Surg*. 2012 May;146(5):788-96. Epub 2012 Jan 20. PMID: 22267492 <http://www.ncbi.nlm.nih.gov/pubmed?term=22267492>
33. **Zuniga MG**; Orr, BA; Chang, SS; Tufano, RP. Suboccipital Malignant Solitary Fibrous Tumor: Report of a Case. *Ear Nose Throat J*. 2012 Feb;91(2):E25-7. PMID: 22359142; <http://www.ncbi.nlm.nih.gov/pubmed?term=22359142>
34. Tavassolie TS, Penninger RT, **Zuniga MG**, Minor LB, Carey JP. Multislice Computed Tomography in the Diagnosis of Superior Canal Dehiscence: How Much Error, and How to Minimize It? *Otol Neurotol*. 2012 Feb;33(2):215-22. PMID: 22222573; <http://www.ncbi.nlm.nih.gov/pubmed?term=22222573>

In press

1. **Zuniga MG**, Lenarz T, Rau T. "Hydraulic Insertion of CI Electrode Arrays Achieving Very Slow, Continuous Insertion Velocities: Proof of Concept". (*European Archives ORL*)

Non-Peer Reviewed Online Publications

1. Janky KL, **Zuniga MG**, Stewart CS. "The Clinical Picture of Large Vestibular Aqueduct Syndrome." *Seminars in Hearing* 2011;32:354-365.

Teaching experience – with CME credits

1. Webinar on "VEMP testing" – 4th lecture as part of the Advanced Vestibular Assessment Webinar. Advanced Level Course, available since 2015 with CME credits through *Audiology Online* (Course: #26254) at: <https://www.audiologyonline.com/audiology-ceus/>
2. Superior canal dehiscence syndrome as cause of conductive hearing loss. A lecture for ENTs in the state of Lower Saxony, Germany. Held on July 14th, 2021 with CME credits.

Oral presentations:

1. **Zuniga MG**, Lenarz T, Rau T. “Handheld tool for intraoperative measurement of insertion forces” Grand Rounds MHH, Hannover, Germany 1/2020.
2. **Zuniga MG**, Salcher R, Lenarz T, Rau T. “Hydraulic Insertion of CI Electrode Arrays Achieving Very Slow, Continuous Insertion Velocities: Proof of Concept” CI2020 Orlando, USA. *Conference cancelled due to COVID-19.
3. Rau T, **Zuniga MG**, Hügl S, Lenarz T. “Verification of the Decreasing Effect of Low Velocities on Insertion Forces Using a Highly Flexible Lateral Wall Electrode Array.” CI2020 Orlando, USA. *Conference cancelled due to COVID-19.
4. **Zuniga MG**. “Step by Step/Despacito-Seminar: Inner ear and Cochlear Implant Surgery”. Jubiläumskongress der Spanisch-Deutschen Gesellschaft für Hals-Nasen-Ohrenheilkunde. October 23-25th, 2019. Mannheim, Germany. (*Invited talk*)
5. **Zuniga MG**. “Pediatric Endoscopic Ear Surgery”. XV International Congress of Pediatrics-Pediatric Otolaryngology subsection. July 10-13 2019 Centro de Convenciones CINTERMEX Monterrey, NL Mexico. (*Invited talk*)
6. **Zuniga MG**. “Endoscopic Ear Surgery experiences; International forum for young Doctors on Endoscopic Ear Surgery”. Endoscopic Ear Course by Society of Otolaryngology of Mendoza, Argentina. July 6th 2018. (*Invited talk*)
7. **Zuniga MG**, et al. “Electrode Location and Angular Insertion Depth Are Predictors of Audiologic Outcomes in Cochlear Implantation”; and Round table “Individualized Cochlear Implantation”. 3rd Hannover Hearing Implants Symposium and workshop. Hannover, Germany. April, 2018. (*Invited talk*)
8. **Zuniga MG**. “VEMP: ¿Qué modalidad debemos usar? (*Which modality should we use?*)” Monthly Academic Session of the Otolaryngology Institute at Hospital Zambrano Hellion of Sistema Tec Monterrey, Mexico. May 2017. (*Invited talk*)
9. **Zuniga MG**, Kesler K, Dillon NP; Fichera L, Mitchell JE, Labadie RF. “Measurement of Temperature During Temporal Bone Drilling: Is the Facial Nerve at Risk?” Resident Research Competition at Vanderbilt University Medical Center, Nashville TN USA. June 2016 (Winner 1st place).
10. **Zuniga MG**, Rivas A, Hedley-Williams A, Gifford RH, Dwyer R, Dawant BM, Sunderhaus LW, Hovis KL, Wanna GB, Noble JH, Labadie RF. “Tip Fold-over in Cochlear Implantation: Case series”. Otol Neurotol. AOS at COSM Chicago, 2016.
11. Fichera, L., Dillon NP, Kesler K, **Zuniga Manrique M**, Mitchell JE, Labadie RF. “Thermal monitoring of the facial recess during drilling for minimally invasive cochlear implantation: comparison of manual and automated approaches”. In Proceedings of the 30th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS), Heidelberg, Germany, 2016.
12. Hunter JB, **Zuniga MG**, Leite J, Killeen D, Wick C, Ramirez J, Rivas JA, Nogueira JF, Isaacson B, Rivas A. “Surgical and Audiologic Outcomes in Endoscopic Stapes Surgery across 4 Institutions”. *Otolaryngol Head Neck Surg.* at AAO-HNSF meeting, August 2015

13. **Zuniga MG**, Hunter JB, Sweeney AD, Bertrand NM, Wanna GB, Haynes DS, Wootten CT, Rivas A. "Pediatric Endoscopic Cholesteatoma Surgery". *Otolaryngol Head Neck Surg.* at AAO-HNSF meeting, August 2015
14. **Zuniga MG**, Sweeney A, Wanna G, Haynes D, Rivas A. "The impact of preoperative oral steroid use on low frequency hearing preservation after cochlear implantation". *ACIA 2014: 14th Symposium on Cochlear Implants in Children.* Nashville, 2014.
15. **Zuniga MG**, Carey JP. "Which vestibular evoked myogenic potential should we use?" (6/2012) Resident and fellow research presentations at Johns Hopkins University School of Medicine – Department of Otolaryngology Head and Neck Surgery.
16. Agrawal Y, **Zuniga MG**, Davalos-Bichara M, Schubert MC, Walston J, Carey JP. "Decline in semicircular canal and otolith function with age." *Otol Neurotol. ANS* at COSM 2012.
17. **Zuniga MG**, Davalos-Bichara M, Schubert MC, Walston J, Carey JP, Agrawal Y. "Association between Hearing Loss and Saccular Dysfunction in Older Individuals." *Otol Neurotol. AOS* at COSM 2012.
18. **Zuniga MG**, Janky KL, Nguyen K, Welgampola M, Carey, JP. "Ocular vs. Cervical VEMPs in the Diagnosis of Superior Semicircular Canal Dehiscence Syndrome." *Otol Neurotol. ANS* at COSM 2012.

Posters of scientific presentations:

1. **Zuniga MG**, Hügl S, Lenarz T, Rau T. "Toward Intraoperative Measurement of CI Insertion Forces: initial performance of a handheld tool". Cluster of Excellence Hearing4all: International Symposium 2019. Hannover, Germany.
2. Kempf AJ, Stone G, **Zuniga MG**, McCaslin DL, Virgin FW, Wootten CT, Chinnadurai S. "Correlation of air-bone gap and size of enlarged vestibular aqueduct in children". ASPO 2017, Austin TX. Abstract ID ASPO20170187.
3. **Zuniga MG**, Kesler K, Dillon NP; Fichera L, Mitchell JE, Labadie RF. "Heat generated during temporal bone drilling: Is the facial nerve at risk?" COSM AOS San Diego 2017. (Abstract available at: <http://www.americanotologicalsociety.org/images/forms/AOS%202017%20Selected%20Poster%20Abstracts.pdf>)
4. **Zuniga MG**, Labadie RF, McCaslin D. Subjective visual vertical in a pediatric population. ARO MidWinter Meeting San Diego, February 2016. Abstract #488.
5. **Zuniga MG**, Ladner TR, Vignaux G, Hoffman H, Chuan-Ming L, Elefteriou F, Rivas A. (2015). Lower Bone Mineral Density in Weight-bearing Bones Amongst Individuals with Generalized Vestibular Weakness. ARO Midwinter Mtg Abstract # 350.
6. **Zuniga MG**, Sweeney A, Wanna GB, Haynes DS, Rivas A. "The impact of preoperative oral steroid use on low frequency hearing preservation after cochlear implantation", AAO-HNS/F Florida, 2014, Poster # 394.

7. Baxter M, Ward B, Trevino C, Carter A, **Zuniga MG**, Della Santina C, Carey JP. (2014) "Clinical and Physiologic Predictors of Near Dehiscence Syndrome" ARO Midwinter Mtg Abstract # 429.
8. Trevino C, Beaton K, **Zuniga MG**, Wenzel A, Davalos-Bichara M, Schubert MC, Agrawal Y, Carey JP. (2013) "Body sway analysis in patients with superior canal dehiscence". ARO Midwinter Mtg Abstract # 810.
9. **Zuniga MG**, Wenzel A, Trevino C, Carey JP. (2013) "Reducing sound exposure during ocular vestibular evoked myogenic potential testing for superior semicircular canal dehiscence syndrome". ARO Midwinter Mtg Abstract # 809.
10. Davalos-Bichara M, **Zuniga MG**, Agrawal Y, Carey JP, Schubert MC. (2012) "Backward Locomotion as a Predictor of Falls". ARO Midwinter Mtg Abstract #901.
11. **Zuniga MG**, Eibenberger K, Nguyen KD, Welgampola MS, Carey JP. (2012) "Ocular vestibular evoked myogenic potentials in response to midline skull taps: input-output function of a utricular reflex". ARO Midwinter Mtg Abstract # 895.
12. **Zuniga MG**, Davalos-Bichara M, Schubert MC, Carey JP, Janky KL. (2012) "Optimizing ocular vestibular evoked myogenic potential testing for semicircular canal dehiscence syndrome: electrode placement". ARO Midwinter Mtg Abstract # 892.

HONORS AND AWARDS

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| 2016 | First Prize for Resident Research Competition at Vanderbilt University Medical Center |
| 2015 | Resident Travel award, Association for Research in Otolaryngology |
| 2011 | Graduated with "Mencion Honorifica" Award - (Honorary Mention) Escuela de Medicina Ignacio A. Santos del Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) – M.D. degree |
| 2011 | Medical student Travel award, Association for Research in Otolaryngology |
| 2004 | Valedictorian of the Cumbres High School of the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) |
| 2004 | Excellence Scholarship to attend the Escuela de Medicina Ignacio A. Santos at ITESM, Mexico- For graduating as first of the class at ITESM Campus Cumbres High School. |

VOLUNTEERING AND SERVICE

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| 2010 | Volunteer translator at Latino Health Fair – Johns Hopkins University School of Medicine & Centro La Esperanza, Baltimore, MD |
| 2004 - 2007 | Women's outreach; San Jerónimo Catholic Church, NL, Mexico |
| 2007 | Coordinator of materials' committee and logistics support at XXIII International Congress in Medicine- General Surgery; by Escuela de Medicina del ITESM. |

2005 Organizer & logistics support of MEDITEC event, designed for the promotion of healthcare for students and faculty at Escuela de Medicina Ignacio A. Santos at ITESM, Mexico

Language Fluency:

English (Fluent); German (Fluent); Spanish (Native).

July 27, 2021.