

**Curriculum Vitae**  
Amal Isaiah, M.D., D.Phil. (Oxon.)

**Date** 1 July, 2016

**Contact Information**

Business Address: 16 S. Eutaw St Ste 500, Baltimore, MD 21201  
Business Phone Number: (410) 328-6866  
Fax: (410) 328-5827  
Email: amal.isaiah@gmail.com  
Foreign Languages: Malayalam (fluent)

**Education**

2000 All India Secondary School Certificate Examination  
2007 Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.), St. John's Medical College, Bangalore, India  
2012 Doctor of Philosophy (D.Phil.), Physiology, Anatomy & Genetics, University of Oxford, Thesis Advisor: Professor Andrew J. King "Behavioural model of bilateral cochlear implantation"

**Post Graduate Education and Training**

2010 - 2011 Internship, University of Maryland Medical Center and VA Maryland Health Care System  
2011 - 2015 Residency, Otorhinolaryngology—Head and Neck Surgery, University of Maryland Medical Center and VA Maryland Health Care System  
2015 - 2016 Fellowship, Pediatric Otolaryngology, UT Southwestern Medical Center and Children's Health

**Certifications**

2009 Educational Commission for Foreign Medical Graduates (ECFMG) #07737737  
2016 American Board of Otolaryngology Certificate #22815

**Medical Licensures**

Active Maryland

**Employment History**

2006 Research Associate, Neurotology, Medical Trust Hospital, Cochin, India (4 months)  
2008 Tutor, Graduate Entry Medicine, University of Oxford (approximately 6 lectures/term)  
2009 Tutor, Oxbridge Academic Programs, Oxford, United Kingdom (1 month)

**Academic Appointments**

Assistant Professor of Otorhinolaryngology—Head and Neck Surgery, UMSOM (pending start date Aug 15, 2016)

### **Professional Society Membership**

2010-present Member, American Academy of Otolaryngology—Head and Neck Surgery

### **Honors and Awards**

- 2000 National Merit Scholarship, Government of India
- 2001 National Biotechnology Scholarship, Government of India
- 2001 Merit Certificate, Physiology and Biochemistry
- 2003 Merit Certificate, Pharmacology
- 2004 The Indian Psychiatry Society Prize in Psychiatry, Merit Certificate in ENT
- 2005 The Bactroban Dermatology Prize, Cadila Health Care Prize in General Surgery
- 2005 Merit Certificate, Internal Medicine
- 2006 Rhodes Scholarship
- 2007 Departmental Prize, University of Oxford Dept of Physiology, Anatomy and Genetics
- 2008 Invited Delegate, International Academy of Achievement (one of 50 honorees from around the world), Kailua-Kona, HI
- 2013 Resident Leadership Grant, American Academy of Otolaryngology—Head and Neck Surgery
- 2013 First Place, Maryland Society of Otolaryngology Resident Research Competition
- 2013 Duane Sewell Research Prize, University of Maryland Dept of Oto-HNS
- 2015 Duane Sewell Research Prize, University of Maryland Dept of Oto-HNS

### **National/International Service**

- 2008- Reviewer, British Medical Journal (student edition, 2008-)
- 2012- Reviewer, Grants and Awards, Action on Hearing Loss (formerly Deafness Research UK, 2012-)
- 2015- Reviewer, Research in Developmental Disorders, Elsevier (2015-)

### **Grant Support**

#### **Active Grants:**

- 06/2016 -(PI: 10%) *“Sleep apnea screening in children undergoing general anesthesia”*  
The Gerber Foundation, Early Career Award.

### **Publications**

#### **Peer-reviewed journal articles**

1. **A. Isaiah**, K. Moyer, K. D. Pereira, Current Trends in Neonatal Tracheostomy. JAMA Otolaryngology—Head & Neck Surgery. (2016), doi:10.1001/jamaoto.2016.1107
1. J. Murphy, **A. Isaiah**, J. S. Wolf, J. E. Lubek, The influence of intraoperative frozen section analysis in patients with total or extended maxillectomy., Oral Surg Oral Med Oral Pathol Oral Radiol (2016), doi:10.1016/j.oooo.2015.07.014.

2. K. D. Pereira, **A. Isaiah**, Oxygen flow during pediatric laryngoscopy: A simple solution, *Laryngoscope* (2015), doi:10.1002/lary.25466.
3. **A. Isaiah**, D. E. H. Hartley, Can training extend current guidelines for cochlear implant candidacy? *Neural Regen Res* 10, 718–720 (2015).
4. **A. Isaiah**, K. D. Pereira, Outcomes after adenotonsillectomy using a fixed anesthesia protocol in children with obstructive sleep apnea., *Int J Pediatr Otorhinolaryngol* 79, 638–643 (2015).
5. J. Murphy, **A. Isaiah**, J. S. Wolf, J. E. Lubek, Quality of life factors and survival after total or extended maxillectomy for sinonasal malignancies., *J Oral Maxillofac Surg* 73, 759–763 (2015).
6. A. F. Chiang, **\*A. Isaiah**, K. T. Vakharia, A nasal mass discovered during intubation. Schwannoma., *JAMA Otolaryngol Head Neck Surg* 141, 87–88 (2015). \*corresponding
7. **A. Isaiah**, T. Vongpaisal, A. J. King, D. E. H. Hartley, Multisensory training improves auditory spatial processing following bilateral cochlear implantation., *J Neurosci* 34, 11119–11130 (2014).
8. E. Petrus, **A. Isaiah**‡, A. P. Jones, D. Li, H. Wang, H.-K. Lee, P. O. Kanold, Crossmodal induction of thalamocortical potentiation leads to enhanced information processing in the auditory cortex., *Neuron* 81, 664–673 (2014) (‡joint first author).
9. D. E. H. Hartley, **A. Isaiah**, Envelope enhancement increases cortical sensitivity to interaural enveloped delays with acoustic and electric hearing., *PLoS One* 9 (2014), doi:10.1371/journal.pone.0104097.
10. **A. Isaiah**, K. D. Pereira, Infected sublingual hematoma: a rare complication of frenulectomy., *Ear Nose Throat J* 92, 296–297 (2013).
11. D. E. H. Hartley, T. Vongpaisal, J. Xu, R. K. Shepherd, A. J. King, **A. Isaiah**, Bilateral cochlear implantation in the ferret: a novel animal model for behavioral studies., *J Neurosci Methods* 190, 214–228 (2010).

### **Thesis**

Isaiah A. A behavioral model of bilateral cochlear implantation, University of Oxford, 2012

### **Patents**

1. Wolf JS, **Isaiah A**. Ultrasound Localization of Obstruction for Obstructive Sleep Apnea”. International and US Patents filed Jan 2015 (**14/608,859**).
2. Wolf JS, **Isaiah A**. Automatic Ultrasound Titration of Continuous Positive Airway Pressure (CPAP) Treatment for Sleep Apnea Provisional filed Feb 2016 (**62/291,937**).

### **Book Chapters (published)**

1. **Isaiah A**, Pereira KD, Correa AG. Tracheal infections. *Infectious Diseases in Pediatric Otolaryngology*; Springer; 2016. pp. 163-175
2. **Isaiah A**, Pereira KD. The Effect of Body Position on Sleep Apnea in Children. *Positional Therapy in Obstructive Sleep Apnea*: Springer; 2015. pp. 151-61.
3. **Isaiah A**, Pereira KD. Congenital Laryngeal and Tracheal Anomalies. *Encyclopedia of Otolaryngology, Head and Neck Surgery*: Springer; 2013. pp. 583-98.

### **Book Chapters and Reviews (accepted/in press)**

1. **Isaiah A**, Mitchell RB. Management of sleep-disordered breathing in children (in press, *Sleep apnea and snoring, Surgical and Non-Surgical Therapy*, 2nd edition, Elsevier)
2. **Isaiah A**, Mitchell RB. Pediatric Obstructive Sleep Apnea—Surgical Techniques beyond T&A (invited review, in press, *International J Head & Neck Surgery*)
3. **Isaiah A**, Lee KH. Cochlear Implants in Children: Recent Advances (invited review, in press, *International J Head & Neck Surgery*)

**Conference abstracts**

1. **Isaiah A**, Mitchell RB and Johnson RF, Ethnic disparities in pediatric laryngeal stenosis, American Society for Pediatric Otolaryngology/Combined Otolaryngology Societies Spring Meeting, May 2016, Chicago, IL
2. **Isaiah A** and Pereira KD, Airway fluoroscopy and laryngotracheal anomalies in infants, American Society for Pediatric Otolaryngology/Combined Otolaryngology Societies Spring Meeting, May 2016, Chicago, IL
3. Lee K, **Isaiah A**, Mitchell R, and Szmuk P, Identification of Children at Risk for OSA Using a Standardized Questionnaire Pilot Study, Society for Pediatric Anesthesiology/American Academy of Pediatrics Annual Meeting Apr 2016, Colorado Springs, CO
4. Da Costa V, Vincent R, Quinn K and Isaiah A, Oral intake in post-adenotonsillectomy patients, what does it predict? AAO-HNS Annual Meeting 2015, Dallas, TX
5. Sheikh A, Liu J, **Isaiah A** and Kanold PO: Hypoxemic-ischemic injury alters auditory cortex in neonatal rats: Society of Neuroscience Annual Meeting 2015, Washington, DC
6. Murphy J, **Isaiah A**, Wolf, J & Lubek J Quality of life factors and survival after total or extended maxillectomy for malignancy. 5th IFHNOS World Congress 2014, NY
7. **Isaiah A** and Guardiani EA, A Management Algorithm for Iatrogenic Laryngeal Fractures following Emergency Surgical Airways Combined Sections Spring Meeting 2015, San Diego, CA
8. Murphy J, **Isaiah A**, Wolf, J & Lubek J Quality of life factors and survival after total or extended maxillectomy for malignancy. 5th IFHNOS World Congress 2014, NY
9. Fisher, K, **Isaiah, A\***, & Pereira, K D (2014). Neonatal Tracheostomies: Changing Trends. Otolaryngology--Head and Neck Surgery, 151(1 suppl), P240-P241. (winner of outstanding poster of AAO-HNS Annual Meeting)
10. Pervez N, Murphy J, **Isaiah A**, Lubek J, Ord R and Dyalram D (2014) Oral squamous cell carcinoma in those 40 years and younger: a single institute retrospective study. American Association of Oral and Maxillofacial Surgeons Annual Conference, Honolulu, HI
11. **Isaiah A**, Stein R, Shapiro S, Bellefleur M and Pereira KD: Pharmacologic manipulation of Emergence after Adenotonsillectomy: a controlled study, AAO-HNS Annual Meeting 2013, Vancouver, Canada
12. **Isaiah A**, Vongpaisal T, King A, Hartley D: Multimodal training increases binaural sensitivity of the primary auditory cortex in animals with cochlear implants. Association for Research in Otolaryngology Midwinter Meeting 2013, Baltimore, MD
13. Jones AP, **Isaiah A**, Kanold PO: Cross-modal alterations to receptive field properties of the auditory cortex. Association for Research in Otolaryngology Midwinter Meeting 2013, Baltimore, MD
14. **Isaiah A**, Vongpaisal T, King A, Hartley D: Neurotrophic effects of cochlear implantation on spiral ganglions are related to spatial fields of current delivery in the cochlea: Proceedings of the Conference on Implantable Auditory Prostheses 2011, Lake Tahoe, CA
15. **Isaiah A**, Vongpaisal T, Shepherd R, King A, Hartley D: Intermodal training for auditory spatial enhancement following cochlear implantation—evidence from electrophysiologic and behavioural studies. Proceedings of the European Symposium on pediatric cochlear implantation 2010, Athens, Greece
16. Hartley DEH, **Isaiah A**, Vongpaisal T, Shepherd RK and King AJ: Spatial hearing in ferrets with cochlear implants. Proceedings of the Conference on Implantable Auditory Prostheses 2009, Lake Tahoe, CA
17. **Isaiah A**, Vongpaisal T, Shepherd R, King A, Hartley D: Sound localization in ferrets with unilateral and bilateral cochlear implants. Association for Research in Otolaryngology Midwinter Meeting 2009, Baltimore, MD

18. **Isaiah A**, Vongpaisal T, Xu J, Shepherd RK, King AJ, Hartley DEH: A behavioural model of bilateral cochlear implantation. British Society of Audiology Meeting on experimental studies of hearing and deafness 2009, York, United Kingdom
19. Hartley DEH, **Isaiah A**, Schnupp JWH, Dahmen JC, Fallon JB, Shepherd, RK and King AJ: Potential benefits of halfwave rectified stimuli to individuals with bilateral cochlear implants. Proceedings of the British Society of Audiology Meeting 2009. University of Nottingham, United Kingdom
20. **Isaiah A**, Bergmann C, King AJ, Hartley DEH: Refinements to implantation techniques in neuroscientific research in the ferret, Joint Wellcome Trust and NC3Rs Conference 2008, London, United Kingdom
21. Hartley DEH, **Isaiah A**, Schnupp JWH, Dahmen JC, Fallon J, Shepherd RK, King AJ: Sensitivity to interaural time delays in auditory cortex of ferrets: investigating potential benefits of half-wave rectified stimuli to individuals with bilateral cochlear implants. Association for Research in Otolaryngology Midwinter Meeting 2008, Phoenix, AZ

### **Invited talks**

1. SONOSA—a novel diagnostic platform for Obstructive Sleep Apnea' UMB-JHU Biomedical Alliance meeting Baltimore, MD (Apr 2015)
2. 'Current state of implantable hearing technologies' India-US Otolaryngology Symposium, AOI Cochin Meeting (Oct 2014)
3. 'Airways and Craniofacial trauma', Imperial College London Annual Trauma Conference (Dec 2013)
4. 'Sound localization using unilateral and bilateral cochlear implants', Grand Rounds Lecture, Dept. of Otolaryngology, University of Maryland Medical Center, MD, USA (2009)
5. 'The Bionic Ear', Annual Lecture Supper, St. John's College, Oxford (2008)
6. 'Learning to hear', Guest Lecture, Association of Otolaryngologists of India, Cochin, India (2008)
7. 'Protective effects of intracochlear electrical stimulation on the developing auditory system', Linacre talks, Oxford University (2008)
8. 'Spatial hearing in ferrets with cochlear implants', Nuffield Research Talks, John Radcliffe Hospital, Oxford University (2008)
9. 'Advances in hearing restoration', The Ephrem Thoppil M.D. Oration, Orlando, FL (2008)
10. 'Synergistic effects of valproate and flunarizine in pentylenetetrazol (PTZ)-induced seizures', Southern Regional Pharmacologists Conference of India, Tirupati, India (2005)

### **Media**

1. Seeing less helps the brain hear more: National Public Radio (NPR) Broadcast Feb 05 2014  
<http://www.npr.org/blogs/health/2014/02/05/272092118/seeing-less-helps-the-brain-hear-more>
2. I was featured in The Why files, a University of Wisconsin publication:  
<http://whyfiles.org/tag/amal-isaiah/feed/> 3.
3. For the publication in Neuron, I received an Altmetric score of 356 (#2 in all journal submissions to Cell Press, 35 newspapers, 13 blogs, 20 tweets, 99th percentile in all research submissions worldwide in media attention compared to other articles of same age (article reported in BBC, Washington Post, NY Times, Scientific American, Nature etc.)  
[http://www.altmetric.com/details.php?domain=www.cell.com&citation\\_id=2100933](http://www.altmetric.com/details.php?domain=www.cell.com&citation_id=2100933)