

# Rebecca M. Lewis, Au.D., Ph.D., CCC-A

E-mail: rebecca.lewis.aud.phd@gmail.com

Current Location: San Francisco, CA

## EDUCATION

- 9/2008 – 6/2016 **Dual Doctorates in Audiology and Philosophy (AuD, PhD)**  
Virginia Merrill Bloedel Hearing Research Center  
Speech and Hearing Sciences | University of Washington (UW)
- 9/2004 – 6/2008 **Bachelor of Science (BS)**  
Speech and Hearing Sciences | University of Washington

## RESEARCH EXPERIENCE

- 2020 – *present* **Clinical Research Scientist**  
Whisper.ai in San Francisco, CA
- Collaboratively design clinical studies using subjective, objective, and behavioral measures to explore user experience and validate function of a machine learning hearing aid system
  - Train, educate, advise, and mentor colleagues on clinical research best practices and principles of clinical care
  - Write study protocols, institutional review board submissions, as well as both interim and final summaries of study outcomes
  - Work closely with Head of Product, Data Science, and User Experience to test device performance against requirements
- 2019 – 2020 **Research Audiologist**  
Walter Reed National Military Medical Center in Bethesda, MD
- Investigated electrophysiologic and cognitive measures among military personnel with blast exposure or traumatic brain injury
  - High degree of incidental learning: pupillometry, bimodal pitch matching among patients with single-sided cochlear implants
- 2016 – 2019 **Postdoctoral Research Fellowship**  
Eaton Peabody Laboratory, Massachusetts Eye and Ear, Harvard Medical School
- Investigated mechanisms of cellular damage induced by vestibular schwannoma, including blood-based inflammatory markers
  - Provided regulatory support for select IRB studies
  - Investigated incidence of tinnitus using a database of 150k patients
  - High degree of incidental learning: pupillometry, EEG, eCochG, special applications of technology ahead of FDA clearance
  - Worked closely and regularly with otologists and neuroscientists
- 2011 – 2016 **PhD Dissertation Research**  
Virginia Merrill Bloedel Hearing Research Center, University of Washington
- Investigated molecular and cellular processes of hair cell regeneration in animal models
  - Extensive interaction with surgeons and neuroscientists

## SELECTED HONORS, AWARDS, & FELLOWSHIPS

- 2013 – 2014 **Science Communication Fellowship** • Pacific Science Center
- 2012 – 2016 **National Research Service Award Fellowship** • UW • NIDCD/NIH
- 2010 – 2012 **Auditory Neuroscience Training Grant** • UW • NIDCD/NIH
- 2008 **Graduated with Distinction** • Undergraduate Honors

# Rebecca M. Lewis, Au.D., Ph.D., CCC-A

E-mail: rebecca.lewis.aud.phd@gmail.com

Current Location: San Francisco, CA

## PROFESSIONAL CLINICAL EXPERIENCE

1/2018 – 8/2019

**Clinical Audiologist • Audiology Research Specialist**

Audiology Division • Massachusetts Eye and Ear • Harvard Medical School

- Regular, standardized report writing as a clinician
- Communicate individually with patients, family members, and with various specialty providers
- Special presentations to stakeholders and the public
- Coordinated collaborative audiology research efforts

## MEMBERSHIPS & CERTIFICATIONS

2019 – present

**Member** • American Speech Language and Hearing Association

2018 – present

**Certificate Holder in Tinnitus Management** • American Board of Audiology

2018 – present

**Member** • Association for Research in Otolaryngology (ARO)

2016 – present

**Member** • American Academy of Audiology (AAA)

2016 – present

**Board Certified in Audiology** • American Board of Audiology

## NATIONAL SERVICE

2022 – present

**Member** • Communications Committee • ARO

2021 – present

**Chair-Elect** • National Board of Directors • American Board of Audiology

2021 – present

**Scientific Grants Project Officer** • American Tinnitus Association

2020 – present

**Co-Chair** • External Relations Committee • ARO

2019 – present

**Invited Member** • Advisory Program • American Tinnitus Association

2019 – present

**Invited Member** • Editorial Committee • Hearing Health Foundation

2020 – 2024

**Board Member** • National Board of Directors • American Board of Audiology

2019 – 2020

**Invited Member** • External Relations Committee • ARO

2018 – 2019

**Appointed Task Force Member** • American Academy of Audiology

*“The Role of the Audiologist in the Provision of Pharmaceutical Agents”*

2013 – 2014

**Elected Member-at-Large, Appointed Secretary** • National Board of Directors • Student Academy of Audiology (SAA)

2013 – 2014

**Appointed Co-Chair** • PhD Student Subcommittee • National SAA

2013 – 2014

**Elected Member-at-Large** • National Board of Directors • Student & Postdoctoral ARO (spARO)

2010 – 2012

**PhD Committee Member** • National SAA

## LOCAL SERVICE

2017 – 2019

**Co-President** • Massachusetts Eye and Ear Postdoctoral Association

2016 – 2018

**Social Coordinator** • Eaton Peabody Laboratory • Massachusetts Eye and Ear

2016 – 2017

**Journal Club Organizer** • Eaton Peabody Laboratory • Massachusetts Eye and Ear

2009 – 2010

**Chapter President** • Student Academy of Audiology • UW

2008 – 2009

**Chapter Vice President** • Student Academy of Audiology • UW

2008

**Founding Officer** • Student Academy of Audiology • UW

2007 – 2008

**Chapter President** • National Student Speech Language & Hearing Assoc. • UW

# Rebecca M. Lewis, Au.D., Ph.D., CCC-A

E-mail: rebecca.lewis.aud.phd@gmail.com

Current Location: San Francisco, CA

## ACADEMIC PUBLICATIONS IN REFEREED JOURNALS

- Lewis, RM**, Hume, CR, and Stone, JS (2012). *Atoh1* expression and function during auditory hair cell regeneration in post-hatch chickens. *Hearing Research*, 289(1–2), pp. 74–85.  
doi: 10.1016/j.heares.2012.04.008.
- Lewis, RM**, Keller, JJ, Wan, L, and Stone, JS (2018). Bone morphogenetic protein 4 antagonizes hair cell regeneration in the avian auditory epithelium. *Hearing Research*, 364, pp. 1–11.  
doi: 10.1016/j.heares.2018.04.008.
- Sagers, JE, Brown, AS, Vasilijic, S, **Lewis, RM**, Sahin, MI, Landegger, LD, Perlis, RH, Kohane, IS, Welling, DB, Patel, CJ, and Stankovic, KM (2018). Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma. *Scientific Reports*, 8(1):5437.  
doi: 10.1038/s41598-018-23609-7.
- Katsumi\*, S, Sahin\*, MI, **Lewis\***, **RM**, Iyer, J, Landegger, L, and Stankovic, KM (2020). Intracochlear perfusion of tumor necrosis factor-alpha induces sensorineural hearing loss and synaptic degeneration in guinea pigs. *Frontiers in Neurology*, 10:1353. doi: 10.3389/fneur.2019.01353
- Lubner, RJ, Barbarite, E, Kondamuri, N, Knoll, RM, Ota, HO, **Lewis, RM**, Franck, K, Remenschneider, AK, Kozin, ED (2020). Hearing Vital Signs: Mobile Audiometry in the Emergency Department for Evaluation of Sudden Hearing Loss. *Otolaryngology–Head and Neck Surgery*, 163(5):1025-1028.  
doi:10.1177/0194599820935420
- Parthasarathy A, **Lewis RM**, Romero-Pinto S, and Polley, DB (2020). Data-driven segmentation of audiometric aging phenotypes across a large clinical cohort. *Scientific Reports*.
- Lewis\***, **RM**, Jahn\*, K, Parthasarathy A, Goedicke, WB, and Polley, DB (2020). Audiometric predictors of tinnitus in a large clinical cohort of adult patients with sensorineural hearing loss. *Otology & Neurotology*. PMID: 31985705.
- Lewis, RM** (*in press*). From Bench to Booth: Examining Hair Cell Regeneration through an Audiologist's Scope. *Journal of the American Academy of Audiology*.

## PHD DISSERTATION

- Lewis, RM** (2016). Defining *Atoh1* function and regulation in avian supporting cells during auditory hair cell regeneration. University of Washington. Primary Mentor: Jennifer Stone. Additional Mentors and Committee Members: Ed Rubel, Julie Arenberg, Richard Folsom.

## SELECTED PUBLICATIONS FOR PUBLIC OUTREACH

- Lewis, RM**, and Sherlock, LP (2021). Who's Calling the ATA's Support Line and How Is It Helping? Tinnitus Today, Winter 2021, pp. 22-26.  
Available at: <https://issuu.com/tinnitustoday/docs/tinnitustoday-winter2021-07-web>
- Lewis, RM** (2019). Regenerative Therapies: Targeting Hearing Loss and Tinnitus. Tinnitus Today, Winter 2019. pp. 13-18.  
Available at: [https://www.ata.org/sites/default/files/Email\\_pdf\\_TinnitusToday-Winter2019.pdf](https://www.ata.org/sites/default/files/Email_pdf_TinnitusToday-Winter2019.pdf)
- Lewis, RM**, Rubel, EW, and Stone, JS (2016). Regeneration of Auditory Hair Cells: A Potential Treatment for Hearing Loss on the Horizon. *Acoustics Today*, 12(2), pp. 40–48.  
Available at: <http://acousticstoday.org/wp-content/uploads/2016/06/Lewis.pdf>.

# Rebecca M. Lewis, Au.D., Ph.D., CCC-A

E-mail: rebecca.lewis.aud.phd@gmail.com

Current Location: San Francisco, CA

## SELECTED TEACHING, MENTORING, PUBLIC OUTREACH EXPERIENCES

- 2019 **Invited Speaker for Science Café** • Association for Research in Otolaryngology  
*Casual forum to discuss science with members of the public*
- 2017 – 2019 **Team Teaching Experience** • Harvard Medical School  
*Provided introductory lectures and lab experiences for students in the Speech & Hearing Biotechnology PhD Program*
- 2016 – 2019 **Volunteer Mentor** • Bottom Line  
*Mentoring first-generation and low-income undergraduate students*
- 2014 **Co-Teaching Experience** with Julie Arenberg • Clinical Audiology Program • UW  
*Co-taught foundational course in Hearing Science for first year AuD students • Independently ran an optional and well-attended lab section to support educational development*
- 2014 **Volunteer Educator** • Celebrate Hearing  
*Educating the public about the importance of hearing protection at a hearing awareness event hosted by the Seahawks*
- 2013, 2014 **Workshop Leader** • Expanding Your Horizons  
*Teaching Young Women in Science, Technology, Engineering, and Math*
- 2011, 2013, 2015 **Volunteer Educator** • Brain Awareness Week • UW  
*Teaching K-12 students about hearing and the brain*
- 2009, 2010, 2011 **Volunteer Educator** • Woodstick  
*Educating the public about the importance of hearing protection at an annual event whereby drummers attempt to set the world record for the largest number of drummers playing one song simultaneously*
- 2007 **Guest Teacher** • Alternative Spring Break • UW  
*Teaching low income 8th grade science students about Mars, introducing college as an option to potential first generation college students*