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JCAT	

2016 – *present* Postdoctoral Research Fellowship

Eaton-Peabody Labs

Massachusetts Eye and Ear Infirmary

Harvard Medical School

2010 – 2016 Doctorate of Philosophy

Virginia Merrill Bloedel Hearing Research Center

Speech and Hearing Sciences
University of Washington (UW)

2008 – 2016 Doctorate of Audiology

Speech and Hearing Sciences University of Washington

2004 – 2008 Bachelor of Science

Speech and Hearing Sciences University of Washington

### **RESEARCH EXPERIENCE**

2016 – present Postdoctoral Research Fellowship

Konstantina Stankovic, M.D., Ph.D., Mentor

 Investigated mechanisms of sensorineural hearing loss among patients with vestibular schwannoma

 Investigated ototoxicity of tumor necrosis factor alpha in mature mammalian model

2011 – 2016 Dissertation Research

Jennifer Stone, Ph.D., Mentor; Ed Rubel, Ph.D., Co-Mentor

 Investigated expression and function of Atoh1, Bone Morphogenetic Protein (BMP), and Inhibitor of DNA binding (ID) in mature avian epithelia during hair cell regeneration

2008 – 2011 Audiology Capstone & Pre-Dissertation Research Project

Jennifer Stone, Ph.D., Mentor

 Investigated the role of Atoh1 during hair cell differentiation and proliferation in mature, damaged avian epithelia

2007 – 2008 Undergraduate Honors Research Project

Kristie Spencer, Ph.D., Mentor

 Investigated the comparison of measures of executive functions (Wisconsin Card Sorting Test and the Controlled Oral Word Association Test) in people with Parkinson's disease

2007 – 2008 Infant Hearing Lab

Lynne Werner, Ph.D., Mentor

 Worked as a research assistant with infants aged 11 weeks to 9 months to investigate the development of human auditory perception

2005 Howard Hughes Medical Institute Biology Fellowship

School of Medicine, University of Washington

Clarissa Dirks, Ph.D., Mentor

Investigated Scarabaeidae species diversity along Andean elevational gradients of Ecuador

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HUNUKS.	AWARDS.	& FELL	.UWSHIPS

2012, 2015 Graduate Student Poster Session Award

**American Auditory Society** 

2013 Travel Award

Molecular Biology of Hearing and Deafness Conference

2013 – 2014 Science Communication Fellowship

Pacific Science Center

2012 NRSA Fellowship

NIDCD of NIH

2011, 2012 Travel Award

Lesley B. and Steven G. Olswang Endowed Student Conference Fund

University of Washington

2011 Audiologist Travel Award

Association for Research in Otolaryngology

2010 Auditory Neuroscience Training Fellowship

University of Washington

2008 Graduated with Distinction from Speech and Hearing Sciences

2008 Elected undergraduate speaker for Speech and Hearing Sciences graduation

2005 Admitted to the Howard Hughes Biology Fellows Program

**EDITORIAL SERVICE** 

2017 Invited Reviewer, *Nature Neuroscience* 

**NATIONAL SERVICE** 

2013 – 2014 Elected Member-at-Large, National Board of Directors

Secretary, Co-chaired the Joint SAA/AAA PhD Student Subcommittee

Student Academy of Audiology

2013 – 2014 Elected Member-at-Large, National Board of Directors

National Student & Postdoctoral Association for Otolaryngology

2010 – 2012 PhD Committee Member, National Student Academy of Audiology

**LOCAL SERVICE** 

2016 – present Organizer, Eaton Peabody Labs Journal Club
2011 – 2013 Governmental Relations Committee Member

Washington State Academy of Audiology

2011 – 2012 Member-At-Large at UW, Student Academy of Audiology
 2009 – 2010 Chapter President at UW, Student Academy of Audiology
 2008 – 2009 Chapter Vice President at UW, Student Academy of Audiology

2008 Founding officer at UW, Student Academy of Audiology

2007 –2008 Chapter President, University of Washington

National Student Speech Language and Hearing Association

### **MEMBERSHIPS & CERTIFICATIONS**

2016 – *present* Member, American Academy of Audiology

2016 Board Certification in Audiology

2008 – 2016 Member, Student Academy of Audiology

2009 – 2016 Student Member, Washington State Academy of Audiology

2006 – 2008 Student Member, National Student Speech Language and Hearing Association

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### **COMPLETED RESEARCH SUPPORT**

NIH/NIDCD Funding: T32 DC005361-09 Covey, Ellen (PI) 07/01/02-06/30/12 Auditory Neuroscience Training Program Supported by T32 Grant 6/2010-6/2012.

Role: TA

NIH/NIDCD Funding: F30 DC012228-04 Lewis, Rebecca (PI) 07/01/12-06/30/16 Defining ATOH1 function and regulation in avian

Role: PI

AAAF Funding: Lewis, Rebecca (PI) 07/01/14-06/30/15 Student Investigator Research Grant

Supported by American

Academy of

**Audiology Foundation** 

Role: PI

#### **TEACHING EXPERIENCE AT UNIVERSITY LEVEL**

2017 Lectures in Clinical Audiology, Co-Taught with Margaret Gregowicz (SHBT)

Speech & Hearing Biotechnology PhD Program

supporting cells

Harvard Medical School

2014 Hearing Science, Co-Taught with Julie Bierer (SPHSC 509)

Clinical Doctorate of Audiology Program

**University of Washington** 

### OTHER TEACHING AND MENTORING EXPERIENCE

2016 – *present* Volunteer Mentor, Bottom Line

Mentoring first-generation and low-income undergraduate students

2014 Volunteer Educator, Celebrate Hearing, Seahawks Hearing Awareness Event

2013, 2014 Workshop Leader, Expanding Your Horizons Workshop

Teaching Young Women in Science, Technology, Engineering, and Math

2011, 2013, 2015 Volunteer Educator, UW Brain Awareness Week

Teaching K-12 students about hearing and the brain

2009, 2010, 2011 Volunteer Educator, Woodstick, Hearing Protection Awareness Booth

2007 Guest Teacher for 8<sup>th</sup> Grade Science Course, UW Alternative Spring Break

# **PUBLICATIONS IN REFEREED JOURNALS**

**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.

**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.

### **PHD THESIS**

Lewis, R. (2016) "Defining *Atoh1* function and regulation in avian supporting cells during auditory hair cell regeneration", University of Washington.

# **CONFERENCE PRESENTATIONS**

**Lewis RM**, Hume CR, Stone JS. *Atoh1* promotes mitotic and non-mitotic forms of auditory hair cell regeneration in post-hatch chickens. Northwest Auditory and Vestibular Research Meeting. 2012.

**Lewis RM**, Hume CR, Stone JS. *Atoh1* expression and function during auditory hair cell regeneration in post-hatch chickens. American Auditory Society. 2012.

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- **Lewis RM**, Hume CR, Stone JS. *Atoh1* expression and function during auditory hair cell regeneration in post-hatch chickens. Association for Research in Otolaryngology. 2012.
- Keller J, **Lewis R**, Stone J. Bone Morphogenetic Protein and Inhibitor of Differentiation Antagonize Hair cell Differentiation during Avian Hair Cell Regeneration in Post-Hatch Chickens. Association for Research in Otolaryngology. 2013.
- Keller J, **Lewis R**, Stone J. Bone Morphogenetic Protein and Inhibitor of Differentiation Antagonize Hair cell Differentiation during Avian Hair Cell Regeneration in Post-Hatch Chickens. Molecular Biology of Hearing and Deafness Meeting. 2013.
- **Lewis R**, Keller J, Stone J. Bone Morphogenetic Proteins Antagonize Hair cell Differentiation during Avian Hair Cell Regeneration in Post-Hatch Chickens. American Auditory Society. 2015.
- **Lewis R** & Spencer K. Executive Functions in Individuals with Parkinson's Disease: A Comparison of Two Measures. University of Washington Undergraduate Research Symposium. June 2008.

### **PODIUM PRESENTATIONS**

- Ototoxicity and Tumor Necrosis Factor alpha. Stankovic Lab Meeting, Massachusetts Eye and Ear. October 2016. May 2017.
- Electrical stimulation for the treatment of severe, chronic tinnitus. Stankovic Lab Meeting, Massachusetts Eye and Ear. January 2017.
- Defining *Atoh1* function and regulation in avian supporting cells during auditory hair cell regeneration. Dissertation Defense, Speech and Hearing Sciences, University of Washington. May 2016.
- Latest Advances in Hair Cell Regeneration: Clinical Implications. Veterans Affairs, Puget Sound Health Care System. March 2016.
- Bone Morphogenetic Proteins Antagonize *Atoh1* Expression and Avian Hair Cell Regeneration. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. April 2015.
- Clinical Implications of Hair Cell Regeneration. Aural Rehabilitation Group Session, Speech and Hearing Sciences, University of Washington. September 2014.
- Avian Hair Cell Regeneration: The Interactions Between *Atoh1* and Bone Morphogenetic Proteins.

  Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. January 2014.
- Inhibitors of differentiation during avian hair cell regeneration. Hair Cell Regeneration Meeting, University of Washington. February 2013.
- Avian Hair Cell Regeneration: The Interactions between *Atoh1*, Inhibitors of Differentiation, and Bone Morphogenetic Proteins. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. November 2012.
- Avian Hair Cell Regeneration: The Interactions Between *Atoh1* and Bone Morphogenetic Proteins. Rubel Lab Meeting, University of Washington. October 2012.
- The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. May 2012.
- Atoh1 promotes both mitotic and non-mitotic forms of regeneration. Auditory Neuroscience Retreat, University of Washington. May 2011, May 2012.
- The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. November 2011.
- The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Auditory Neuroscience Training Grant Seminar, University of Washington. January 2011.
- The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. April 2011.
- The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Rubel Lab Meeting, University of Washington. December 2010.

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The Role of *Atoh1* During Avian Auditory Hair Cell Regeneration. Doctoral Research Forum, Speech and Hearing Sciences, University of Washington. December 2010.

# **CLINICAL EXPERIENCE**

# Adult:

• Diagnostics, Cochlear Implants, Vestibular, Hearing Aid Technology Tinnitus Management – Veterans Administration, Washington	(6/2015 – 6/2016)
Diagnostics, Cochlear Implants, Vestibular, Hearing Aid	(12/2015 – 6/2016)
Technology, Tinnitus Management – Seattle Veterans Administration	
<ul> <li>Diagnostics – UW Speech and Hearing Clinic (SHC)</li> </ul>	(3/2009 – 6/2009)
<ul> <li>Diagnostic and Hearing Aid Clinic – UW SHC</li> </ul>	(9/2008 – 12/2008)
	(6/2009 – 8/2009)
<ul> <li>Aural Rehabilitation Clinic – UW SHC</li> </ul>	(1/2009 - 3/2009)
<ul> <li>Diagnostics – Harborview Medical Center</li> </ul>	(6/2011 – 8/2011)
<ul> <li>Diagnostics, Hearing Aid Technology, Aural Rehabilitation –</li> </ul>	(6/2013)
UW Experience Aural Rehabilitation Project	
<ul> <li>Diagnostics, Vestibular Diagnostics –</li> </ul>	(1/2014 - 3/2014)
Seattle Hearing and Balance	
<ul> <li>Diagnostics, Hearing Aid Technology –</li> </ul>	(3/2015 – 6/2015)
Harborview Medical Center	
<ul> <li>Diagnostics, Hearing Aid Technology –</li> </ul>	(6/2015 – 12/2015)
American Lake Veterans Administration	
Pediatric:	
<ul> <li>Diagnostics – UW Center for Human Development and Disability (CHDD)</li> </ul>	(1/2010 – 3/2010)
Diagnostic and Hearing Aid Clinic – UW CHDD	(3/2010 - 6/2010)
<ul> <li>Aural Rehabilitation Clinic – Seattle Children's Hospital</li> </ul>	(6/2010 – 8/2010)
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Other:	
<ul> <li>Adult Speech Pathology Clinic – UW SHC</li> </ul>	(9/2009 – 12/2009)
<ul> <li>Adult Vestibular Clinic – UW Medical Center</li> </ul>	(6/2010 – 8/2010)
<ul> <li>Adult and Pediatric Audiology Clinic – Swedish Medical Center</li> </ul>	(9/2014 – 12/2014)