

Curriculum Vitae

Adrian KC Lee

Professor & Chair

Department of Speech and Hearing Sciences

Institute for Learning & Brain Sciences

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EDUCATION AND PROFESSIONAL HISTORY

Education

- 2009 – 2010 Harvard Medical School & Massachusetts General Hospital, Boston, MA, USA
Department of Radiology
Post-doctoral Fellow
- 2007 – 2009 Harvard Medical School & Massachusetts General Hospital, Boston, MA, USA
Department of Psychiatry
Post-doctoral Fellow
- 2003 – 2007 Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA, USA
Doctor of Science in Health Sciences and Technology
- 1998 – 2002 The University of New South Wales, Sydney, NSW, Australia
Bachelor of Engineering (Electrical)

Professional Appointments (Academic)

University of Washington, Seattle, WA

- 2020 – present Department Chair of Speech & Hearing Sciences
2019 – present Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
2019 – present Adjunct Professor of Electrical & Computer Engineering
2016 – present Research Affiliate, Institute on Human Development and Disability
2015 – 2019 Associate Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
2015 – 2019 Adjunct Associate Professor of Electrical Engineering
2014 – present Affiliate Faculty, Institute of Neuroengineering
2011 – present Faculty member, Graduate Program in Neuroscience
2011 – present Affiliate Faculty, Virginia Merrill Bloedel Hearing Research Center
2011 – 2015 Assistant Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
2011 – 2015 Adjunct Assistant Professor of Electrical Engineering

Macquarie University, Sydney, Australia

- 2023 – 2025 Honorary Professor, Faculty of Medicine, Health and Human Sciences, Australian Hearing Hub
2017 – 2019 Honorary Associate Professor, Department of Linguistics, Australian Hearing Hub

Harvard-MIT Martinos Center for Biomedical Imaging, Charlestown, MA

- 2011 – 2015 Visiting Faculty

Boston University, Boston, MA

- 2009 – 2010 Director of Boston Area Machine-Brain Interface consortium, NSF-CELEST
2007 – 2010 Research Associate, Cognitive and Neural Systems
2003 – 2007 Research Assistant, Cognitive and Neural Systems

Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK

- 2005 Visiting Scholar

University of New South Wales, Sydney, Australia

2003 Research Assistant, Electrical Engineering & Telecommunications

Bionic Ear Institute, Melbourne, Australia

2002 Visiting Scholar

Professional Appointments (Industry)

Microsoft Research, Redmond, WA

2019 Brain-Computer Interface Research Consultant

Membership and Honors

Membership

2020- Member, Sigma Xi – The Scientific Research Honors Society

2013- Member, IEEE

2008-2011 Member, Society for Neuroscience

2005- Member, Acoustical Society of America

2004-2020 Member, Association for Research in Otolaryngology

Honors

2021 Elected Fellow, Acoustical Society of America

2017 Bloedel Center Traveling Scientist Award, University of Washington, WA

2014 Department of Defense, Office of Naval Research Young Investigator Program award

2012 The Royal Society International Exchanges program award, United Kingdom

2012 Department of Defense, Air Force Office of Scientific Research Young Investigator Program award

2009 National Institutes of Health Pathway to Independence Award (NIDCD: K99/R00)

2008 Postdoctoral Fellowship Award, Mass. General Hospital Fund for Medical Discovery, Boston, MA

2007 Advanced Multimodal Neuroimaging Training Program fellowship, Martinos Center for Biomedical Imaging, Charlestown, MA

2007 Association for Research in Otolaryngology Graduate Student Travel Award

1998 – 2002 Academic Excellence and Co-op Scholarship University of New South Wales, Australia

LEADERSHIP RESPONSIBILITIES

INTRAMURAL LEADERSHIP

Chair, Speech & Hearing Sciences at University of Washington (2020 – present)

The Department of Speech and Hearing Sciences at University of Washington is home to 30+ faculty, 10+ staff, ~100 undergraduate majors / postbaccalaureate students, ~100 graduate masters, ~20 doctoral students with an annual budget of \$7 million and ~20 grants totaling \$15 million of extramural funding. The clinical program in the department is ranked 5th in the nation and the Speech & Hearing Clinic serves as a teaching laboratory for students, managing around 5,000 patients visits per year.

Major accomplishments:

- Established and led the departmental Social Justice Taskforce (SJT) and changed the departmental culture on diversity, equity, and inclusion (DEI) conversations. SJT oversaw DEI-related educational programming at monthly faculty meetings (open to students and staff) covering topics such as microaggression, systemic racism in higher education etc. SJT also helped students organized Nexus meetings to facilitate student-led DEI discussions. Revised faculty annual review process such that DEI-related work can be highlighted and recognized. Formal bias reporting was also established for the first time in the history of the department.
- Led discussions in the field of Communication Sciences & Disorders on DEI topics. Hosted 2 webinars over a 6-month period that attracted more than 1,000 registrants across the US and 500+ live participants to discuss

ways to confront systemic racism in our discipline. Invited to lead DEI-related discussions in different departments from predominantly white institutions on leading departmental cultural change.

- Oversaw budget reorganization—fee-based programming, clinic operation—focusing on financial sustainability. Made fiscal decisions as transparent as possible for the Executive Committee and simultaneously increased financial literacy of upcoming faculty leaders in the department. Overturned the trend of annual negative fiscal positions presided by previous chairs to provide healthy annual surplus (~\$300k each year across multiple budgets) for strategic investments (e.g., audiovisual equipment upgrades for better clinic supervision, start-up cost for online certification programs).
- Collaboratively worked with the Executive Committee and faculty members of the next 5-year department strategic planning (2024-29) as well as currently leading in the 10-year academic program review process.
- Shepherding the creation of two online programs that fill the critical needs for the evolving landscape of hearing healthcare as well as expanding access to non-traditional students such that they can be ready for graduate training in the field of speech-language pathology.
- Maintained the department clinic operation that provided critical care for patients as well as orchestrated the physical move of the department to a temporary building and back for a seismic retrofit project at the height of COVID-19 concerns.
- Worked with the Graduate School on two different agenda items: 1) Talked to campus stakeholders regarding how stacked credentialing can potentially diversify our student pool (which would be the future model for one of our professional programs) and using this equity lens, the Graduate School found support for two changes (Memo 43, 50) that will allow for stacked certification and degrees throughout UW; 2) Currently exploring how to streamline an en-route / exit Master's path for every unit with PhD programs (viz., a master's degree embedded with PhD program requirements such that a student admitted to a PhD program may apply coursework taken towards a Master's degree even if they decided not to ultimately finish their PhD dissertation) and help them view this from an equity standpoint.

Principal Investigator, Auditory Neuroscience Training Grant at University of Washington (2019-21; 24–pres.)

Major accomplishments:

- Co-created new training modules for trainees that cover financial literacy as well as DEI-related topics.
- Co-developed and submitted successful T32 renewal application to the NIH.

Director of Research and PhD Program, Speech & Hearing Sciences at University of Washington (2018 – 20)

Major accomplishments:

- Established annual student check-up meetings as well as using the individual development plan to ensure each student is on track in their PhD training progression.
- Provided grant-writing mentorship for junior faculty to help increase application success rate.

Creator of the Why.n.How Lecture series, Athinoula A Martinos Center for Biomedical Imaging at Harvard-MIT (2008-10)

Major accomplishments:

- As a postdoctoral fellow recognizing that there is a knowledge gap in the research assistants working at the imaging center as well as a lack of venue for other postdoctoral fellows to accrue teaching experience, the bi-monthly Why.n.How series was pitched to the Center Director and was rolled out. Since the first lecture in 2009, over 200 tutorials have been hosted and this tutorial series continues to be an important educational fixture of the Martinos Center today.

EXTRAMURAL LEADERSHIP

Improving the publication process for The Journal of Acoustical Society of America (JASA; 2016 – 2019)

JASA is the leading source of theoretical and experimental research results in the broad interdisciplinary subject of sound, serving physical scientists, life scientists, engineers, psychologists, physiologists, architects, musicians, and speech communication specialists with its first issue published in 1929.

Major accomplishments:

- Established and served as the inaugural coordinate editing role and working with the editor-in-chief and the publication office, made the publication process 40% more efficient (cutting 40 days on average from submission to first editorial decision). This pilot program was quickly adopted across the 13 technical committees, and it is now a permanent fixture of the JASA publication process.
- Chaired the publication strategic taskforce (from 2018) to further explore how to disseminate acoustics information to a broad audience using the most effective means.

Creator of the student, postdoctoral fellow and medical resident chapter for the Association for Research in Otolaryngology (ARO; 2008)

Major accomplishments:

- Recognizing that there was no systemic educational program for trainees for the professional society of ARO, along with five other trainees, created the student / postdoc chapter of ARO. This chapter remains the major structure for the society that delivers educational as well as mentoring content for trainees.

SERVICE

Intramural Service

Center Directorship

2013 – 2018 Center for Auditory Neuroimaging, Director

University Committees

2024 Benjamin Hall Endowed Chair Selection Committee, Member
2024 Biology Chair Search Committee, Committee chair
2021 – 2022 Molecular and Cellular Biology Program (10-year) Review Committee, Member
2020 – present Board of Trustees for the Virginia Merrill Bloedel Hearing Research Center, Member
2018 – 2019 Research Advisory Board, Committee member

Departmental Committees

2024 MS Core (research-track) Admission Committee, Speech & Hearing Sciences
2015 – 2017 Head of Interest Group (Fundamental Mechanism), Speech & Hearing Sciences
2015 – 2016 Development Committee, Speech & Hearing Sciences
2015, 2019 Faculty Search Committee, Speech & Hearing Sciences
2013 – present PhD Admission Committee, Speech & Hearing Sciences
2013 – 2015 Peer Teaching Evaluation Committee, Speech & Hearing Sciences
2011 – 2012 PhD Admission Committee, Neuroscience Graduate Program

Faculty Mentoring Committees

2018 – 2020 Sara Kover (tenure-track), Speech & Hearing Sciences; role: member
2016 – 2020 Jill Locke, PhD (research-track), Speech & Hearing Sciences; role: chair
2015 – 2019 Jason Yeatman, PhD (tenure-track), Speech & Hearing Sciences; role: member
2015 – 2018 Matthew Winn, PhD (tenure-track), Speech & Hearing Sciences; role: member

Other Services

2023 Gatzert Child Welfare Fellowship Review Panel, UW Graduate School
2018 – 2020 Committee Member, Royalty Research Fund

2017 – 2020 Coordinator, Collaborative Research Area on Learning Disabilities, UW-CHDD
2013 Panelist in Future Faculty Fellows Workshop, UW School of Medicine
2012 – 2013 Biomedical Research Integrity Series, Group Leader

Training Grant Preceptorship

2016 – present NIH-T32NS099578: Graduate Training in Neuroscience (PI: Jane Sullivan)
2015 – present NIH-T32CA206089: Big Data in Genomics and Neuroscience (PI: Noble)
2011 – present NIH-T32DC005361: Auditory Neuroscience Training Grant (PI: Lee 2019-2021)
2011 – present NIH-T32DC000018: Research Training in Otolaryngology (PI: Stone)
2012 – 2017 NIH-T90DA032436: Computing and the Brain: Training the next generation of neuroscientists (PI: Fairhall)
2011 – 2016 NIH-T32DC000033: Research Training in Speech and Hearing Sciences (PI: Werner)

Extramural Service

Professional Societies

Association for Research in Otolaryngology (ARO)

Evaluator, ARO Poster Blitz (students and postdocs), 2017-2018
Web Editor, 2015-2018
Long Range Planning Committee, Member, 2013-2018
External Relations Committee, Member, 2011-2013
spARO (student, postdoctoral and medical trainees of ARO) Steering Committee, Founding member, 2008-2010
Long Range Planning Committee, spARO representative, 2008-2009
Government Relations Committee, spARO representative, 2010

Acoustical Society of America (ASA)

Committee on Education in Acoustics, Member, 2015-2016; 2019-present
Technical Committee, Physiological and Psychological Acoustics, Member, 2013-2016
International Liaison Committee, Member, 2018-present

Publication

Editorial Board

The Journal of the Acoustical Society of America: Coordinating Editor and Associate Editor, 2016-2019
Journal of Brain-Computer Interfaces: Associate Editor, 2013-2018
Frontiers in Brain Imaging Methods: Review Editor, 2013-2017

Ad-hoc Reviewer

<i>Acta Acustica united with Acustica</i>	<i>Journal of Neurophysiology</i>
<i>Applied Acoustics</i>	<i>Journal of Neuroengineering</i>
<i>Attention, Perception and Psychophysics</i>	<i>Journal of Neuroscience</i>
<i>Brain & Language</i>	<i>Learning & Perception</i>
<i>Brain Research</i>	<i>Nature</i>
<i>Brain Structure & Function</i>	<i>Nature Neuroscience</i>
<i>Cerebral Cortex</i>	<i>NeuroImage</i>
<i>Clinical Neurophysiology</i>	<i>Neuron</i>
<i>Cortex</i>	<i>Neuroscience</i>
<i>Current Biology</i>	<i>Neuropsychiatric Disease and Treatment</i>
<i>Ear and Hearing</i>	<i>Neuropsychologia; Philosophical Transactions B</i>
<i>eLife</i>	<i>PLOS Biology</i>
<i>Hearing Research</i>	<i>PLOS ONE</i>
<i>Human Brain Mapping</i>	<i>Proceedings of the IEEE (Signal Processing)</i>
<i>IEEE Access</i>	<i>PNAS</i>
<i>iScience</i>	<i>Psychological Research</i>
<i>JARO – J. of the Assoc. for Research in Otolaryngology</i>	<i>Psychophysiology</i>
<i>Journal of the Acoustical Society of America</i>	<i>Scientific Report</i>

Ad-hoc Conference Reviewer

23rd International Conference on Biomagnetism, Sydney, Australia, Aug 26-29, 2024
8th International Brain-Computer Interface Conference, Asilomar, CA, May 30-June 3, 2016
6th International Brain-Computer Interface Conference, Graz, Austria, Sept 16-19, 2014
Society for the Neurobiology of Language, San Diego, Nov 6-8 2013
5th International Brain-Computer Interface Conference, Graz, Austria, Sept 22-24, 2011

Grant Review

National

Department of Defense

Air Force Office of Scientific Research

United States Army Medical Research and Materiel Command Congressionally Directed Medical Research Programs: Neurosensory Research, Autism Research

National Institutes of Health, Center for Scientific Review:

Communication Disorders Review Committee (CDRC)

Hearing and Balance Fellowship Review

Mechanisms of Sensory, Perceptual and Cognitive Processes Study Section (SPC)

Special Emphasis Panels: P50 review

Translational R01

National Science Foundation

Collaborative Research in Computational Neuroscience panel

Other foundations / funding mechanisms

Hearing Health Foundation

University of Texas, San Antonio; Oak Ridge Associated Universities internal grant review

International

Action on Hearing Loss (UK)

Austrian Science Fund (FWF; Austria)

European Research Council (EU)

French National Research Agency (France)

Hong Kong SAR Government Innovation and Technology Fund (HKSAR)

Israel Science Foundation (Israel)

KU Leuven (Belgium)

Medical Research Council (UK)

The Royal National Institute for Deaf People (UK)

Wellcome Trust (UK), *Sir Henry Wellcome Postdoctoral fellowship*

Academic Review

Program Review

Audiology 10-year program review, Department of Speech, Language, and Hearing, University of Texas, Dallas. Role: Chair of review committee.

Tenure and Promotion Review

Tenure reviews

Department of Speech, Language, and Hearing Sciences, The University of Texas at Austin

Department of Biomedical Engineering, University of Rochester

Olin College of Engineering

Other promotions

Department of Communication Sciences and Disorders, University of South Florida

Department of Speech, Language, and Hearing Sciences, Purdue University

Department of Speech, Language, and Hearing Sciences, Indiana University, Bloomington

Scientific Meeting

Conference Organization

Organizer and co-chair, workshop on “Auditory Attention and Scene Analysis,” Hanse Institute for Advanced Study (HWK), Delmenhorst, Germany, July 21-23, 2014.

Local Organizing Committee, Organization for Human Brain Mapping, Seattle, June 16-20, 2013.

Meeting Session Organization

Special session on “Studying the Listening Brain using MEG,” *23rd International Conference on Biomagnetism (BIOMAG 2024)*, Sydney, Australia, Aug 24-29, 2024.

Special session on “Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical and Physiological Collaborations,” *Acoustics '17 Boston*, Boston, June 25-29, 2017.

Special session on “Neuroimaging Techniques,” *Acoustics '17 Boston*, Boston, June 25-29, 2017.

Special session on “Linking Human Physiology with Psychoacoustics – from Brainstem to Cortical Measurements and Beyond,” *172nd Meeting of the Acoustical Society of America*, Honolulu, Nov 28-Dec 2, 2016.

Special session on “Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical and Physiological Collaborations,” *171st Meeting of the Acoustical Society of America*, Salt Lake City, May 23-27, 2016. Tutorial co-

- organizer, “Biosignal acquisition and analysis for speech production and perception: electromyography, electroencephalography and magnetoencephalography (EMG, EEG and MEG),” *Interspeech 2015*, Dresden, Germany, September 6-10, 2015.
- Special session on “Physiological and Psychological Aspects of Central Auditory Processing Dysfunction,” *168th Meeting of the Acoustical Society of America*, Indianapolis, Oct 27-31, 2014.
- Session on “Neural Engineering in Speech and Hearing,” *35th Annual International IEEE EMBS Conference*, Osaka, Japan, July 3-7, 2013.
- Special session on “Investigating the Cortical Involvement in Auditory Perception and Cognition using different Neuroimaging Techniques,” *Acoustics 2012*, Hong Kong, May 13-18, 2012.
- “Encoding for Auditory Representations Workshop,” University of Washington, Aug 22-23, 2011.
- Symposium on “The Auditory Brain beyond A1,” *34th Mid-Winter Meeting of the ARO*, Baltimore, USA, February 19-23, 2011.

Media / Outreach

- Engadget, “AI is already better at lip reading than we are,” by A. Tarantola, September 29, 2022
- Atlas Obscura, “Is the Silence of the Great Plains to Blame for ‘Prairie Madness’?” by James Gaines, July 22, 2022
- An Evening with Neuroscience 2020 moderator, University of Washington, April 17, 2020
- Brains on! American Public Media, 2019
- An Evening with Neuroscience 2019 panelist, University of Washington, April 12, 2019
- Hearing, Speech & Deaf Center, Seattle, WA
- Board Member, 2015 – 2018; Audiology Workgroup, 2018; Chair of Education Committee, 2016 – 2018
- King 5, New Day Northwest, July 2, 2015
- Interschool Robotics Challenge (India) neuroscience outreach at I-LABS, June 6, 2015
- The New York Times, “Where sounds have no barrier,” March 1, 2014
- German National Radio (deutschlandfunk), May 17, 2012
- Science Daily, “Scientists tuning in to how you tune out noise,” May 8, 2012
- Medical XPress, “The error-correcting brain: New insights into the neurobiology of adaptive behavior,” October 27, 2011
- Boston.com, “A lost sense sparked scientific quest,” November 5, 2007

TEACHING / MENTORSHIP

Intramural Teaching

Undergraduate Courses

- 2019 – 2020 SPHSC 461: Introduction to Hearing Science
- 2014 – 2019 SPHSC 425: Speech, Language, Hearing and the Brain
- 2012 – 2017 SPHSC 261: Nature of Sound

Graduate Courses

- 2018 – pres. SPHSC 567: Doctoral Research Forum
- 2016 SPHSC593: Electrophysiology II
- 2015 – 2018 SPHSC561: Studies in Hearing Sciences and Disorders
- 2013 – 2016 NEURO 503: Cognitive and Integrative Neurobiology (*team-taught, instructor for 20% of the course*)
- 2013 – 2020 SPHSC 568: Grant Writing in Hearing, Language, and Speech Science. Co-listed with ANTG program
- 2011 – 2020 SPHSC 594: Capturing Brain Dynamics—a Combined Neuroscience and Engineering Approach. Cross-listed in the following departments: Linguistics, Psychology.

Intramural Mentorship

Postdoctoral Fellows Mentorship (8)

- 04/15 – 06/20 Bonnie Lau, PhD *in Speech & Hearing Sciences (University of Washington)*
Current position: Research Assistant Professor, UW Otolaryngology, Head and Neck Surgery
- 08/16 – 07/19 Sarah Baum Miller, PhD *in Neuroscience (University of Texas Health Science Center)*
Current position: Senior Quantitative UX Researcher at Google
- 06/13 – 01/19 Dan McCloy, PhD *in Linguistics (University of Washington)*
Current position: Research Scientist, UW-ILABS
- 10/13 – 09/18 Susan McLaughlin, PhD *in Speech & Hearing Sciences (University of Washington)*
Current position: Scientific Writer, Institute for Health Metrics and Evaluation
- 04/15 – 08/17 Nicholas Foti, PhD *in Computer Science (Dartmouth College); co-supervised with Emily Fox in Statistics*

- 10/14 – 07/17 *Current position: Senior Machine Learning Researcher at Apple*
Majid Mirbagheri, PhD in *Electrical Engineering (University of Maryland)*
- 06/11 – 08/16 *Current position: Senior ML Algorithm Engineer at Apple*
Ross Maddox, PhD in *Biomedical Engineering (Boston University)*
Current position: Associate Professor (tenured), Kresge Hearing Research Institute, Michigan Medicine, University of Michigan
- 01/11 – 12/14
Eric Larson, PhD in *Biomedical Engineering (Boston University)*
Current position: Principal Research Scientist, UW-ILABS

Other Postdoctoral Trainee Mentorship / Advisory Committee (3)

- 07/20 – 06/23 Gavriel Kohlberg, MD *member of mentoring committee, AOS CSA (PI: Gavriel Kohlberg)*
Current position: Assistant Professor, UW Otolaryngology, Head and Neck Surgery
- 07/16 – 07/17 Brent Wilkerson, PhD *member of mentoring committee, ANTG T32 (PI: Olivia Bermingham-McDonogh)*
Current position: Assistant Professor, Medical University of South Carolina
- 07/16 – 08/17 Kaylah Lalonde, PhD *co-mentor in F32/NRSA grant (PI: Lynne Werner)*
Current position: Director, Audiovisual Speech Processing Lab, Boys Town National Research Hospital

Doctoral Supervisory / Thesis Committee / Project supervisor

Role: PhD Advisor (4)

- 09/20 – 03/24 Liesbeth Gijbels, *Speech & Hearing Sciences*
**College of Arts & Sciences Graduate Medalist in Natural Sciences*
Dissertation title: Factors influencing audiovisual speech integration
Current position: Research scientist, University of Washington
- 01/20 – 11/23 Jordan Drew, *Electrical Engineering*
Dissertation title: Dynamic functional connectivity during a dual-stream auditory attention task
Current position: Postdoctoral Associate, Baylor College of Medicine
- 09/14 – 03/20 Lindsey Kishline, *Speech & Hearing Sciences (NSF GRFP scholar)*
Dissertation title: Investigating the effects of audio-visual spatial congruence on multisensory integration
Current position: Technical Lead Manager, Meta
- 09/12 – 03/17 Mark Wronkiewicz, *Neuroscience (NSF GRFP scholar)*
Dissertation title: Incorporating neuroscience methods and knowledge into brain-computer interfaces
Current position: Data Scientist at NASA's Jet Propulsion Laboratory

Role: AuD Capstone Advisor (3)

- 06/16 – 08/17 Nicole Whittle, *Speech & Hearing Sciences*
Dissertation title: Effects of hearing loss on maintaining and switching attention
Current position: Research Audiologist, National Center for Rehabilitative Auditory Research
- 09/12 – 07/14 Mihwa Kim, *Speech & Hearing Sciences*
Dissertation title: Using pupillometry to measure increases in effort when switching attention between competing streams of degraded speech
Current position: Business Operations and Finance Manager, ORS Impact
- 09/12 – 07/14 Sara Chai, *Speech & Hearing Sciences*
Dissertation title: A historical survey of central auditory processing disorder test battery
Current position: Audiologist, Swedish Medical Center

Role: Master Thesis Advisor (3)

- 08/11 – 04/14 Elliot Saba, *Electrical Engineering*
Dissertation title: A fresh look at functional connectivity analysis
Current position: Senior Research Engineer, JuliaHub

Role: PhD Co-advisor (2)

- 09/21 – present Amanda Ciani *Speech & Hearing Sciences* Primary advisor: Jennifer Stone
- 06/17 – 11/19 Elle O'Brien, *Speech & Hearing Sciences* Primary advisor: Jason Yeatman
Dissertation title: A Multifactorial model of risk for dyslexia
Current position: Lecturer and Research Investigator, University of Michigan

Role: PhD Dissertation Committee Member (14)

- 05/24 – present Xan McPherson *Physics*
- 04/23 – present Erica Peterson *Speech & Hearing Sciences*
- 04/21 – 11/22 Wan Jin Yeo, *Physics*
- 11/17 – 12/18 Kelly Chang, *Psychology*
- 06/17 – 12/18 Gabriel Obregon-Henao, *Neuroscience*

11/18 – 12/18	Tristram Savage,	<i>Psychology</i>
01/17 – 07/18	Elliot Saba,	<i>Electrical Engineering</i>
08/16 – 07/18	Alex Tank,	<i>Statistics</i>
02/15 – 03/20	Melanie Fish,	<i>Speech & Hearing Sciences</i>
01/14 – 08/18	Mona Oster,	<i>Speech & Hearing Sciences</i>
03/14 – 01/17	Mishaela DiNino,	<i>Speech & Hearing Sciences</i>
09/13 – 03/16	Elizabeth Huber,	<i>Psychology</i>
10/12 – 04/15	Christina Zhao,	<i>Speech & Hearing Sciences</i>
02/11 – 06/13	Susan A McLaughlin,	<i>Speech & Hearing Science</i>

Role: Masters Dissertation Committee Member (4)

05/20 – 08/21	Erica Seely	<i>Speech & Hearing Sciences</i>
09/19 – 12/20	Piper Doering,	<i>Speech & Hearing Sciences</i>
07/14 – 08/14	Allison Stewart,	<i>Speech & Hearing Sciences</i>
07/15 – 06/16	Bradley Ekin,	<i>Electrical Engineering</i>

Role: Graduate School Representative (8)

03/24 – 06/24	Tafari James,	<i>Mathematics</i>
02/22 – 05/23	Mohammad Tariq,	<i>Neuroscience</i>
01/15 – 06/18	Jason Webster,	<i>Psychology</i>
04/14 – 06/16	Dae Han Won,	<i>Industrial and Systems Engineering</i>
01/14 – 06/15	Jessica Thomas,	<i>Psychology</i>
06/12 – 06/14	Brad Pierson,	<i>Music</i>
02/11 – 06/13	Xing Li,	<i>Electrical Engineering</i>
01/11 – 12/12	Brian J King,	<i>Electrical Engineering</i>

Role: High School / Undergraduate / Postbacc Lab Mentor (8)

2014	Rona Ding	<i>Speech & Hearing Sciences</i> Mary Gates Research Scholarship Recipient <i>Current position: Resident Physician, Obstetrics and Gynecology, Swedish Medical Center</i>
2014	Karl Marrett	<i>Computational Neuroscience Program trainee</i> Mary Gates Research Scholarship Recipient <i>Current position: Graduate Student Researcher, UCLA</i>
2013	Christa Dodson	<i>Speech & Hearing Sciences</i> <i>Current position: Clinical instructor, Audiology, OHSU</i>
2012-13	Michelle Drews	<i>Neurobiology / Biochemistry</i> *UW President's Medal <i>Current position: PhD/MD trainee, Stanford Medicine</i>
2012	Dean Pospisil	<i>Postbacc research trainee</i> <i>Current position: Assistant Prof (tenure-track), UIUC (starting 09/24)</i>
2011	Ka Young Lee	<i>Speech & Hearing Sciences</i> <i>Current position: Graduate Student Researcher, UBC</i>
2011	Willy Cheung	<i>Computer Sciences</i> Mary Gates Research Scholarship Recipient <i>Current position: Graduate Student Researcher, OSU</i>
2011	Jonathan Mount	<i>High school student</i> <i>Current position: Graduate Student Researcher, Washington University</i>

Extramural Mentorship

Graduate students (3)

09/12 – 09/14	Golbarg Mehraei	<i>at Harvard-MIT HST, SHBT Program</i> <i>Current position: Senior Data Scientist, Starkey Hearing</i>
07/10 – 04/14	Hari Bharadwaj	<i>at Department of Biomedical Engineering, Boston University</i> <i>Current position: Assistant Professor (tenure-track), UPitt</i>
07/09 – 12/13	Siddharth Rajaram	<i>at Boston University Hearing Research Center</i> <i>Current position: Machine Learning Engineer, Coupang</i>

Other professional mentorship

- 2021 – 2024 Invited Instructor, Summer Undergraduate Research / Internship Experience in Acoustics, *Acoustical Society of America*, Chicago
- One-week acoustics introductory course for under-represented undergraduate students from across the US
- 2016 Invited Faculty, Mentoring program at *39th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 20-24, 2016
- 2015 Invited Faculty, *2nd Frederick Jelinek Memorial Summer Workshop* on “Probabilistic Transcription of Languages with no Native-Language Transcribers” (biosignal processing component), University of Washington, Seattle, June 22-Aug14, 2015
- 2014 Invited Faculty, Mentoring program at *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014
- 2013 Invited Faculty, Mentoring program at *36th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, February 16-20, 2013
- 2012 Invited Faculty at *Telluride Neuromorphic Cognition Engineering Workshop*, Telluride, Colorado

RESEARCH

Research Projects / Grants

Pending (2)

National Institute on Deafness and Other Communication Disorders. “The effects of hearing aids and cochlear implants on behavioral and neural cross-modal reorganization.” MPI: Gifford (Vanderbilt), Wallace (Vanderbilt), Lee (UW)

National Institute on Aging. “Understanding multiple dimensions of hearing in relationship to behavioral and brain markers of ADRD.” MPI: Seitz (Northeastern), McEvoy (Kaiser). Site PI: Lee (UW)

Completed (11)

Amazon Web Services Machine Learning Research Awards program. “Inferring functional connectivity from MEG using interpretable deep dynamical models.” PIs: Emily Fox, AKC Lee (unrestricted gift; \$225,000)

National Science Foundation, Collaborative Research in Computational Neuroscience. NSF-IIS-1607468 “CRCNS: Bayesian modeling of interacting time series to discover cortical networks associated with auditory processing dysfunction.” PI: AKC Lee (09/01/16-08/31/20; \$800,000)

National Institute on Deafness and Other Communication Disorders. R01 DC013260 “Cortical dynamics of auditory attention,” PI: AKC Lee (09/17/13-08/31/19; \$1,931,250)

Department of Defense, Office of Naval Research Young Investigator Research Program Award. N00014-15-1-2124 “Capturing neural biomarkers of auditory attention.” PI: AKC Lee (02/24/15-09/30/18; \$510,000)

Department of Defense, Air Force Office of Scientific Research Young Investigator Research Program Award. FA9550-12-1-0466 “An integrated neuroscience and engineering approach to classifying human brain-states.” PI: AKC Lee (09/15/12-09/14/15; \$360,000)

UW-Center for Sensorimotor Neural Engineering (CSNE) project grant. “Modern High-Bandwidth Communications Theory Can Revolutionize Neural Engineering.” Co-PIs: L Atlas; AKC Lee (04/15/12-04/14/14; \$93,085)

National Institute on Deafness and Other Communication Disorders. R01 DC013260-02S1 “Supplement: Cortical dynamics of auditory attention,” PI: AKC Lee (09/01/14-06/29/15; \$60,866)

The Royal Society, International Exchanges Scheme award. “Determining neural mechanisms of audio-visual integration: a multiscale approach.” Co-PIs: AKC Lee (USA); J Bizley (UK) (03/30/2012-03/30/2015; £12,000)

Wyss Institute for Biologically Inspired Engineering at Harvard University. Seed funding “Neuroimaging Biomarkers for Depression Protocol,” Co-PIs: AKC Lee, T Raji (01/01/10-12/31/12; \$121,948)

National Institute on Deafness and Other Communication Disorders. K99/R00 DC010196 “Spatiotemporal Mapping of Auditory Attention using Multimodal Imaging,” PI: AKC Lee (09/01/09-01/31/15; \$858,446)

Mass. General Hospital Fund for Medical Discovery. “Investigation of Inter-trial Neural Plasticity using Multimodal Imaging Techniques,” PI: AKC Lee (06/01/08-05/31/09; \$35,000)

Completed — Serving as mentor (14)

- National Institute on Deafness and Other Communication Disorders. K99DC016640 “Development of neural processing of sound in infancy,” PI: B Lau. Mentors: AKC Lee, P Kuhl (07/18-06/20; \$256,000)
- University of Washington Alcohol & Drug Abuse Institute Small Grant Program. “Characterizing auditory processing in individuals with fetal alcohol spectrum disorder,” PI: Susan McLaughlin, Mentors: AKC Lee, S Astley (07/16-06/18; \$29,597)
- Autism Speaks, Meixner Translational Postdoctoral Fellowship. “Behavioral and neural variability in autism spectrum disorder,” PI: S Baum, Mentors: AKC Lee, W Stone (08/16-08/18; \$173,500)
- University of Washington Institute for Neuroengineering / Washington Research Fund Innovation Postdoctoral Fellowship. PI: Nicholas Foti. Mentors: AKC Lee, E Fox (07/15-06/18)
- National Institute on Deafness and Other Communication Disorders. F31 DC016209 “Infants’ use of temporal cues in the segregation of concurrent sounds,” PI: M Oster. Mentor: L Werner; Co-mentor: AKC Lee (07/17-05/18; \$40,855)
- University of Washington Clinical Translation Core funds, PI: Sarah Baum, Adrian KC Lee (10/17-03/18; \$1,500)
- National Institute on Deafness and Other Communication Disorders. F32 DC015387 “The interaction of auditory and visual detection, discrimination, and recognition in infants’ real-world listening environments,” PI: K Lalonde. Mentor: L Werner; Co-mentor: AKC Lee (07/16-06/17)
- National Institute on Deafness and Other Communication Disorders. K99DC014288 “Visual and auditory perceptual factors affecting spatial release from masking,” PI: R Maddox. Mentor: AKC Lee (12/1/14-8/31/16)
- National Institute on Deafness and Other Communication Disorders. Loan Repayment Program “Decoupling the linguistic and intentional aspects of auditory processing deficits,” PI: D McCloy. Mentor: AKC Lee (8/12/14-8/11/16)
- 2014 Center for Sensorimotor Neural Engineering / Brain-Links-BrainTools Summer Exchange Program (UW and University of Freiburg, Germany). Student: Karl Marrett (CompNeuro). Mentors: AKC Lee and M Tangermann.
- Hearing Health Foundation, Emerging Research Grant. “Relating behavior to brain in an audio-visual scene,” PI: R Maddox. Co-PI / Mentor: AKC Lee (7/1/13-6/30/14; \$24,992)
- National Institute on Deafness and Other Communication Disorders. F32DC012456 “Cortical dynamics of orientation and switching of non-spatial auditory attention,” PI: E Larson. Mentor: AKC Lee (1/16/13-1/15/15; \$102,496)
- National Institute on Deafness and Other Communication Disorders. Loan Repayment Program “How selective attention interacts with bottom-up speech segregation in difficult listening situations,” PI: E Larson. Mentor: AKC Lee (7/1/13-6/30/15)
- UW-Center for Sensorimotor Neural Engineering (CSNE) project grant. “Novel Auditory BCI Design.” PIs: E Larson. Mentor: AKC Lee (9/15/11-9/14/13; \$12,000)

Papers / Talks

Invited Talks

- [T61] Invited panelist, “Academia at a Crossroads: Pathways to Renewal and Innovation,” 2024 ASHA Convention Research-Academic Town Meeting (invitation only), Seattle, WA, December 4, 2024.
- [T60] Invited panelist, “How to Launch and Build a Successful Research Career,” 2024 ASHA Convention, Seattle, WA, December 5-7, 2024.
- [T59] Invited Symposium presenter, “Soundscape: Focus on Applications I,” 186th Meeting of the Acoustical Society of America, Ottawa, Canada, May 13-17, 2024.
- [T58] Invited Symposium presenter, “Physiology and Psychophysics of Predictive Auditory Scene Analysis and Object Formation,” Acoustics 2023, Sydney, NSW, Australia, Dec 4-8, 2023.
- [T57 a/b] Brain Imaging Research Center Speaker Series, University of Connecticut, Nov 3 / 17 (DEI / Research talks)
- [T56 a/b] *Keynote*: Speech & Hearing Bioscience & Technology 30-year Anniversary Symposium, Harvard University, Sep 30, 2022 (and DEI talk)
- [T55] Hearing, Neurodiversity and Imaging Workshop, Macquarie University, Sydney, Australia, Aug 4, 2022.
- [T54] Knowles Hearing Center, Northwestern University, June 3, 2022.
- [T53 a/b] Boys Town National Research Hospital, March 31 / April 1, 2022 (Research and DEI talks)
- [T52] Communication Sciences and Disorders Department, Northwestern University, virtual, March 4, 2022.
- [T51] Invited Symposium presenter, “Neural Basis of Auditory Decision-Making,” 45th Mid-Winter Meeting of the Association for Research in Otolaryngology, virtual, February 5-9, 2022.

- [T50] Department of Speech, Language and Hearing Sciences, Indiana University Bloomington, IN, Sept 10, 2021.
- [T49] Microsoft Research, Redmond, WA, April 4, 2019.
- [T48] Formal Seminar, Neuroscience Graduate Program, UCSF, San Francisco, CA, March 14, 2019.
- [T47] MEG Workshop, Department of Linguistics, Macquarie University, Sydney, Australia, March 23, 2018.
- [T46] Department of Communication Sciences & Disorders, University of South Florida, January 8, 2018.
- [T45] Australian Research Council Laureate Workshop, "Creating a Sense of Auditory Space," Macquarie University, Sydney, Australia October 23-24, 2017.
- [T44] NSW The Children's Hospital at Westmead, Sydney, Australia, October 16, 2017.
- [T43] Center for Research in Sensory Communication & Emerging Neural Technology & Hearing Research Center, Boston University, MA, October 6, 2017.
- [T42] Harvard Center for Brain Science, Cambridge, MA, October 5, 2017.
- [T41] Baylor College of Medicine, Neuroscience Seminar Series, TX, September 22, 2017.
- [T40] Oculus (from Facebook), Redmond, WA, July 18, 2017.
- [T39] Starkey Hearing Research Center, Berkeley, CA, December 15, 2016.
- [T38] Australian Hearing Hub, Macquarie University, Sydney, Australia, July 11, 2016.
- [T37] *Keynote*: 22nd Annual International Conference on Auditory Display, Canberra, Australia, July 3-7, 2016.
- [T36] Brain and Mind Institute, The Chinese University of Hong Kong, Hong Kong SAR, China, May 9, 2016.
- [T35] Center for Hearing Research, UC Irvine, CA, April 19, 2016 (to be rescheduled).
- [T34] Behavioral Neuroscience Program and Department of Communication Sciences and Disorders, Western Washington University, Bellingham, WA, Feb 29, 2016.
- [T33] Multisensory Summit, Boston University, Boston, WA, December 11-12, 2014.
- [T32] Invited Lecturer, Joint Research Academy in Biomedical Engineering and Science of Hearing and Sensory Systems, 2nd annual summer school, Lüneburg, Germany, July 23-24, 2014.
- [T31] Gordon Research Conferences: Auditory System, Lewiston, ME, July 13-18, 2014.
- [T30] NeuroFutures Conference, Seattle, WA, June 17-18, 2014.
- [T29] *Keynote*: 1st International Symposium on Innovative Paediatric Hearing Science, Lake Como, Italy, June 4, 2014.
- [T28] Kavli Brain Coffee Hour, UW CSNE, WA, April 16, 2014.
- [T27] The Ear Club (organized by Erv Hafter), UC Berkeley, CA, March 31, 2014.
- [T26] Center for Computer Research in Music and Acoustics, Stanford University, CA, December 6, 2013.
- [T25] National Center for Rehabilitative Auditory Research, VA Rehab. Research & Development, Portland, OR, May 17, 2013
- [T24] International Symposium on Cognitive Neuroscience Robotics, Seattle, WA, Jan 31- Feb 1, 2013.
- [T23] NW Auditory and Vestibular Research Meeting, Oregon Health & Science University, Portland, OR, October 26, 2012.
- [T22] 18th International Conference on Biomagnetism, Paris, France, August 26-30, 2012.
- [T21] Microsoft Research, Redmond, WA, June 12, 2012.
- [T20] NeuroTalk 2012, Beijing, China, May 18-20, 2012.
- [T19] The Acoustics 2012 Hong Kong, Hong Kong SAR, China, May 13-18, 2012.
- [T18] Department of Physiology and Biophysics Seminar, University of Washington, WA, March 29, 2012.
- [T17] Neuroscience Department Seminar, University of Connecticut Health Center, CT, November 22, 2011.
- [T16] Audiology and Speech Center, Walter Reed National Military Medical Center, MD, November 10, 2011.
- [T15] Oxford Auditory Neuroscience Group, University of Oxford, UK, September 19, 2011.
- [T14] EAR Institute external seminar series, University College London, London, UK, September 16, 2011.
- [T13] Queensland Brain Institute, University of Queensland, Australia, as part of the NSF-Australian Science of Learning meeting and the Symposium on Attention and Learning, Brisbane, Australia, July 20-21, 2011.
- [T12] Virginia Merrill Bloedel Hearing Research Center Board of Trustees meeting, Seattle, WA, July 8, 2011.
- [T11] UW Linguistics Colloquium, Seattle, WA, May 6, 2011.
- [T10] Osaka-UW Joint Workshop on Cognitive Robotics and Brain-Computer Interfaces, Seattle, WA, March 17-18, 2011.
- [T09] Session co-chair: "The Auditory Brain Beyond A1," 34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February 19-23, 2011.
- [T08] Workshop: Research Techniques & Approaches, 34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February 19-23, 2011.
- [T07] NSF-CELEST Workshop on the Hardware and Software of Functional Connections, Boston University, MA, Oct. 22, 2010.
- [T06] Multimodal Imaging Laboratory, Departments of Neurosciences and Radiology, UCSD, CA, June 21, 2010.
- [T05] Institute for Learning and Brain Sciences, University of Washington, WA, March 17, 2010.
- [T04] Center for Biodynamics, Boston University, MA, May 27, 2009.
- [T03] Hearing Research Center, Boston University, MA, October 12, 2007.
- [T02] Research in progress – interdisciplinary dialogues @ MIT, Cambridge, MA, April 14, 2006.
- [T01] EAR Institute, University College London, London, UK, November 15, 2004.

Contributions indicated as follows

- | | |
|--------------------------------------|------------------------------|
| * senior author / major contribution | + postdoctoral fellow author |
| ** secondary contribution | ++ graduate student author |
| *** minor contribution | +++ undergraduate author |

Patents / Patent Applications

- [P02] Wilson, AD, MH Si, C Holz, **AKC Lee, IJ Tashev, H Gamper, EB Cutrell, DE Johnson, D Emmanouilidou, MR Jalobeanu (2022). “Periodic motion-based visual stimulus,” *US Patent number: US20220365599A1*
- [P01] ⁺Mirbagheri M, L Atlas, *AKC Lee. “Fast continuous sampling of head related impulse responses,” *US Provisional Patent Application: 62/538,473*.

Invited Articles (non-refereed)

- [I06] Chung, AWL, **AKC Lee (2024). “Promoting Global Acoustical Collaboration,” *Acoustics Today*, **20**(1): 67-70.
- [I05] *Lee AKC, ML Dent (2019). “Ask an Acoustician,” *Acoustics Today*, **15**(4): 64-67.
- [I04] *Lee AKC (2017). “Imaging the Listening Brain,” *Acoustics Today*, **13**(3): 35-42.
- [I03] Lynch JF, **AKC Lee (2017). “The Need for Speed: Tuning the Publication Engine,” *Acoustics Today*, **13**(2): 52-55.
- [I02] *Lee AKC, ⁺⁺⁺M Drews, ⁺RK Maddox, ⁺E Larson (2013). “Brain Imaging, Neural Engineering Research, and Next-Generation Hearing Aid Design,” *Audiology Today*, **25**(1): 40-47.
- [I01] *Lee AKC (2012). “Brain attending a cocktail party: A special session discussing cortical neuroimaging techniques,” *Acoustical Society of America ECHOES*, **22**(4): 4-5.

Book Chapters (Refereed)

- [B04] *Lee AKC, MT Wallace (2019). “Visual Influence on Auditory Perception,” in Lee *et al* (Eds) *Multisensory Processing: The Auditory Perspective*, Springer Handbook of Auditory Research, Springer-Verlag, New York.
- [B03] *Lee AKC, RK Maddox, JK Bizley (2019). “An Object-based Interpretation of Audiovisual Processing,” in Lee *et al* (Eds) *Multisensory Processing: The Auditory Perspective*, Springer Handbook of Auditory Research, Springer-Verlag, New York.
- [B02] ⁺⁺Wronkiewicz M, ⁺E Larson, *AKC Lee (2018). “Facilitating the Integration of Modern Neuroscience into Noninvasive BCIs,” in Nam *et al* (Eds) *Brain-Computer Interfaces Handbook*, Taylor & Francis Group, Boca Raton, Florida.
- [B01] Shinn-Cunningham BG, V Best, **AKC Lee (2017). “Auditory Object Formation and Selection,” in Middlebrooks *et al* (Eds) *The Auditory System at the Cocktail Party*, Springer Handbook of Auditory Research, Springer-Verlag, New York.

Book Volumes (Refereed)

- [V01] *Lee AKC, MT Wallace, A Coffin, AN Popper, RR Fay (2019). *Multisensory Processes: The Auditory Perspective*, Springer Handbook of Auditory Research, Springer-Verlag, New York.

Journal Articles (Refereed)

- [J54] ⁺⁺Gijbels, L, J Yeatman, K Lalonde, P Doering, *AKC Lee (2024). “Audiovisual Speech Perception Benefits are Stable from Preschool through Adolescence,” *Multisensory Research*. doi:10.1163/22134808-bja10128
- [J53] ⁺⁺Drew, J, N Foti, R Nadkarni, E Larson, E Fox, *AKC Lee (2024). “Using a Linear Dynamic System to Measure Functional Connectivity from M/EEG,” *Journal of Neural Engineering*, **21**: 046020. doi.org/10.1088/1741-2552/ad5cc1
- [J52] Pham, LNH, **AKC Lee, A Estes, S Dager, SJ (Astley) Hemingway, JC Thorne, BK Lau (2024). “Comparing narrative storytelling ability in individuals with autism and fetal alcohol spectrum disorder,” *International Journal of Language & Communication Disorders*, **59**:779–797. doi.org/10.1111/1460-6984.12964
- [J51] Sheffield SW, IM Butera, A DeFreese, BP Rogers, M Wallace, CG Stecker, ED Larson, **AKC Lee, RH Gifford (2023). “Sound level changes the auditory cortical activation detected with functional near-infrared spectroscopy” *Brain Topology*, **36**: 686-697. doi.org/10.1007/s10548-023-00981-w
- [J50] ⁺⁺Gijbels, L, *AKC Lee, J Yeatman (2023). “Children with developmental dyslexia have equivalent audiovisual speech perception performance but their perceptual weights differ,” *Developmental Science*, e13431. doi.org/10.1111/desc.13431
- [J49] Lau, BK, KA Emmons, **AKC Lee, J Munson, SR Dager, AM Estes (2023). “The prevalence and developmental course of auditory processing differences in autistic children,” *Autism Research*, **16**(7): 1413-24. doi.org/10.1002/aur.2961
- [J48] ⁺⁺Gijbels, L, *AKC Lee (2023) “How moderation affects remote psychophysical tasks with children,” *JASA Express Lett.*, **3**(1): 014401. doi.org/10.1121/10.0016832.

- [J47] Butera, IM, ED Larson, AJ DeFreese, **[AKC Lee](#), RH Gifford, MT Wallace (2022). “Functional localization of audiovisual speech using near infrared spectroscopy,” *Brain Topography*, **35**(4): 416-430. doi:10.1007/s10548-022-00904-1.
- [J46] Mamiya, PC, TL Richards, RAE Edden, ***[AKC Lee](#), MA Stein, PK Kuhl (2022). “Reduced Glx and GABA Inductions in the Anterior Cingulate Cortex and Caudate Nucleus Are Related to Impaired Control of Attention in Attention Deficit/Hyperactivity Disorder,” *International Journal Molecular Sciences* **2022**, 23, 4677. doi.org/10.3390/ijms23094677
- [J45] ++Gijbels, L, JD Yeatman, K Lalonde, *[AKC Lee](#) (2021). “Audiovisual speech processing in relationship to phonological and vocabulary skills in first graders,” *Journal of Speech, Language, and Hearing Research*, **64**(12): 5022-40. https://doi.org/10.1044/2021_JSLHR-21-00196
- [J44] Emmons, KA, **[AKC Lee](#), A Estes, S Dager, E Larson, DR McCloy, T St. John, BK Lau (2021). “Auditory Attention Deployment in Young Adults with Autism Spectrum Disorder,” *Journal of Autism and Developmental Disorders*, **52**(4): 1752-61. doi:10.1007/s10803-021-05076-8
- [J43] Luke, R, E Larson, MJ Shader, H Innes-Brown, L Van Yper, **[AKC Lee](#), PF Snowman, D McAlpine (2021). “Analysis methods for measuring passive auditory fNIRS responses generated by a block-design paradigm,” *Neurophotonics*, **8**(2): 025008. doi:10.1117/1.NPh.8.2.025008
- [J42] Jirikowic, T, J Thorne, S McLaughlin, T Waddington, **[AKC Lee](#), S Astley Hemingway (2020). “Prevalence and patterns of sensory processing behaviors in a large clinical sample of children with prenatal alcohol exposure,” *Research in Developmental Disabilities*, **100**:103617 doi:10.1016/j.ridd.2020.103617
- [J41] McLaughlin S, J Thorne, T Jirikowic, *[AKC Lee](#), S Astley Hemingway (2019). “Listening difficulties in children with fetal alcohol spectrum disorders: More than a problem of audibility,” *Journal of Speech, Language, and Hearing Research*, **62**: 1532-1548. doi:10.1044/2018_JSLHR-H-18-0359
- [J40] McLaughlin S, E Larson, *[AKC Lee](#) (2019). “Neural Switch Asymmetry in Feature-Based Auditory Attention Tasks,” *Journal of the Association for Research in Otolaryngology*, **20**(2): 205-215. doi:10.1007/s10162-018-00713-z
- [J39] +McCloy D, *[AKC Lee](#) (2019). “Investigating the fit between phonological feature systems and brain responses to speech using EEG,” *Language, Cognition and Neuroscience*, **34**(5): 662-676. doi:10.1080/23273798.2019.1569246
- [J38] +McCloy D, E Larson, *[AKC Lee](#) (2018). “Auditory attention switching with listening difficulty: Behavioral and pupillometric measures,” *The Journal of the Acoustical Society of America*, **144**(5): 2764-2771. doi:10.1121/1.5078618
- [J37] *[Lee AKC](#), E Larson, CW Miller (2018). “Effects of hearing loss on maintaining and switching attention,” *Acta Acustica united with Acustica*, **104**: 787-791. doi:10.3813/AAA.919224
- [J36] +Maddox RK, *[AKC Lee](#) (2018). “Auditory brainstem responses to continuous natural speech in human listeners,” *eNeuro*: ENEURO.0441-17.2018. PMC5806592. doi:10.1523/ENEURO.0441-17.2018
- [J35] Atilgan H, SM Town, KC Wood, GP Jones, RK Maddox, ***[AKC Lee](#), JK Bizley (2018). “Integration of visual information in auditory cortex promotes auditory scene analysis through multisensory binding,” *Neuron*, **97**(3): 640-655. PMC5814679. doi:10.1016/j.neuron.2017.12.034
- [J34] +Mirbagheri M, L Atlas, *[AKC Lee](#) (2018). “Regression Factor Analysis with an Application to Continuous HRIR Measurement,” *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, **26**(2): 415-421. doi:10.1109/TASLP.2017.2780989
- [J33] +McCloy D, +BK Lau, E Larson, KAI Pratt, *[AKC Lee](#) (2017). “Pupillometry shows the effort of auditory attention switching,” *Journal of the Acoustical Society of America*, **141**(4): 2440-2451. PMC5848839. doi:10.1121/1.4979340
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- [J31] ++Wronkiewicz M, E Larson, *[AKC Lee](#) (2016). “Incorporating modern neuroscience findings to improve brain-computer interfaces: tracking auditory attention,” *Journal of Neural Engineering*, **13**:056017. doi:10.1088/1741-2560/13/5/056017
- [J30] +McCloy DR, ED Larson, +B Lau, *[AKC Lee](#) (2016). “Temporal alignment of pupillary response with stimulus events via deconvolution,” *The Journal of the Acoustical Society of America—Express Letters*, **139**(3): EL57-62. PMC5392052. doi: 10.1121/1.4943787
- [J29] Bizley J, +RK Maddox, *[AKC Lee](#) (2016). “Defining Auditory-Visual Objects: Behavioral Tests and Physiological Mechanisms,” *Trends in Neuroscience*, **39**(2): 74-85. PMC4738154. doi:10.1016/j.tins.2015.12.007
- [J28] +McCloy D, *[AKC Lee](#) (2015). “Auditory attention strategy depends on target linguistic properties and spatial configuration,” *The Journal of the Acoustical Society of America*, **138**(1): 97-114. PMC4499044. doi:10.1121/1.4922328
- [J27] +Wronkiewicz M, E Larson, *[AKC Lee](#) (2015). “Leveraging anatomical information to improve transfer learning in brain-computer interfaces,” *Journal of Neural Engineering*, **12**: 046027. PMC4527978. doi:10.1088/1741-2560/12/4/046027

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- [J25] Sacchet M, R LaPlante, Q Wan, D Pritchett, *** [AKC Lee](#), M Hämäläinen, C Moore, C Kerr, and S R Jones (2015). "Attention Drives Synchronization of Alpha and Beta Rhythms Between Right Inferior Frontal and Primary Sensory Neocortex." *Journal of Neuroscience*, **35**: 2074-2082. PMC4315835. doi:10.1523/JNEUROSCI.1292-14.2015
- [J24] ⁺Maddox RK, DA Pospisil, GC Stecker, * [AKC Lee](#) (2014). "Directing Eye Gaze Enhances Auditory Spatial Cue Discrimination," *Current Biology*, **24**(7): 784-752. PMC3977936. doi:10.1016/j.cub.2014.02.021
- [J23] ⁺Larson E, ⁺RK Maddox, * [AKC Lee](#) (2014). "Improving spatial localization in MEG inverse imaging by leveraging intersubject anatomical differences." *Frontiers in Neuroscience*, **8**: Article 330. PMC4202703 doi:10.3389/fnins.2014.00330
- [J22] ⁺⁺Bharadwaj HM, ** [AKC Lee](#), BG Shinn-Cunningham (2014). "Measuring auditory selective attention using frequency tagging," *Frontiers in Integrative Neuroscience*, **8**: Article 6. PMC3913882. doi:10.3389/fnint.2014.00006
- [J21] ⁺Larson E, * [AKC Lee](#) (2014). "Potential use of MEG to understand abnormalities in auditory function in clinical populations," *Frontiers in Human Neuroscience*, **8**: Article 151. PMC3952190. doi:10.3389/fnhum.2014.00151
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- [J19] * [Lee AKC](#), ⁺E Larson, ⁺R Maddox, B Shinn-Cunningham (2014). "Using neuroimaging to understand the cortical mechanisms of auditory selective attention," *Hearing Research*, **307**: 111-120. PMC3952190. doi:10.1016/j.heares.2013.06.010
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- [J17] ⁺Larson E, * [AKC Lee](#) (2013). "Influence of preparation time and pitch separation in switching of auditory attention between streams." *The Journal of the Acoustical Society of America-Express Letters*, **134**(2): EL165-171. PMC3724725. doi:10.1121/1.4812439
- [J16] Manoach DS, ** [AKC Lee](#), MS Hämäläinen, KA Dyckman, JS Friedman, M Vangel, DC Goff, JJS Barton (2013). "Anomalous use of context during task preparation in schizophrenia: a magnetoencephalography study," *Biological Psychiatry*, **73**(10): 967-975. PMC3641151. doi:10.1016/j.biopsych.2012.12.018
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- [J13] ⁺Maddox RK, ⁺⁺⁺W Cheung, * [AKC Lee](#) (2012). "Selective attention in an overcrowded auditory scene: implications for auditory-based brain-computer interface design." *The Journal of the Acoustical Society of America—Express Letters*, **132**(5): EL385-90. PMC3482251. doi:10.1121/1.4757696
- [J12] * [Lee AKC](#), ⁺E Larson, ⁺RK Maddox (2012). "Mapping the cortical dynamics involved in auditory attention using simultaneous MEG/EEG and anatomically-constrained minimum-norm estimates." *Journal of Visualized Experiments*: e4262. PMC3490313. doi:10.3791/4262
- [J11] Bizley J, B Shinn-Cunningham, ** [AKC Lee](#) (2012). "Nothing is irrelevant in a noisy world: Sensory illusions reveal obligatory within-and across-modality integration." *Journal of Neuroscience*, **32**(39): 13402-10. PMC3489264. doi:10.1523/JNEUROSCI.2495-12.2012
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Conference Papers / Proceedings (Refereed)

- [C108] [Lee AKC](#) (2024). “Soundscape, Attention and Cognitive Load,” *186th Meeting of the Acoustical Society of America, Ottawa, Canada, May 13-17, 2024.*
- [C107] Gijbels L, K Lalonde, MT Wallace, [AKC Lee](#) (2023). “The influence of temporal (a)synchrony and linguistic complexity on audiovisual speech perception,” *Acoustics 2023, Sydney, NSW, Australia, Dec 4-8, 2023.*
- [C106] [Lee AKC](#), S Kover, A Rodda (2023). “Leading Departmental Cultural Changes using a Change Management Model: a DEI Example,” *2023 ASHA Convention, Boston, MA, November 16–18, 2023.*
- [C105] Shen, Y, SJ Anderson, DP Urbanski, [AKC Lee](#) (2023). “Designing a Certificate Program in Over-The-Counter (OTC) Hearing Technology,” *Northwest Auditory & Vestibular Research Meeting, OR, October 18–19, 2023.*
- [C104] Booth M, A Dickinson, [AKC Lee](#), B Lau, A Campbell, J Elison, J Pandey, J Zempel, A Estes, S Dager, H Hazlett, J Wolff, R Schultz, K Botteron, N Marrus, SJ Webb, N Miller, L MacIntyre, A Evans, J Piven, JR Pruett, Jr. S Jeste for the IBIS Network (2023). “High-Likelihood ASD Infant Profiles: Enhancing Data Quality and Retention in Multi-site Early EEG Biomarker Studies,” *52nd Chile Neurology Society Annual Meeting, Vancouver, Canada, Oct 4-7, 2023*
- [C103] Kohlberg, GD, Y Shen, [AKC Lee](#), JT Rubinstein, LE Atlas, RA (2023). “Assessing the relative benefit of real time captioning for speech in noise benefit,” *2023 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July 9-14, 2023.*
- [C102] DeFreese AJ, AB Katelyn, E Larson, [AKC Lee](#), MT Wallace, RH Gifford (2023). “Visual Plasticity Throughout Rehabilitation with a Cochlear Implant,” *2023 Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, July 9-14, 2023.*
- [C101] Lau BK, S Taulu, PK Kuhl, [AKC Lee](#) (2023). “Maturation of Cortical Responses to Sound in the First Year of Life,” *184th Meeting of the Acoustical Society of America, Chicago, IL, May 8-12, 2023.*
- [C100] Booth M, A Dickinson, [AKC Lee](#), B Lau, A Campbell, J Elison, J Pandey, J Zempel, A Estes, S Dager, H Hazlett, J Wolff, R Schultz, K Botteron, N Marrus, L MacIntyre, A Evans, J Piven, JR Pruett, Jr. S Jeste for the IBIS Network (2023). “Methodological strategies for improving data quality and retention across multi-site studies of early EEG biomarkers in ASD,” *International Society for Autism Research 2023 Annual Meeting, Stockholm, Sweden, May 3-6, 2023.*
- [C99] Lighterink MA, R Gifford, M Wallace, E Larson, [AKC Lee](#) (2023). “Audiovisual integration and cortical response patterns in children,” *50th Annual Scientific & Tech. Meeting of the American Auditory Society, Scottsdale, AZ, Mar 2-4, 2023.*
- [C98] Kover ST, A Rodda, E Ingvalson, C Chang, [AKC Lee](#) (2022). “Development of a multi-tiered, holistic mentoring program for graduate students from historically marginalized backgrounds,” *2022 annual ASHA convention (virtual poster), Nov 17-19, 2022.*
- [C97] Stoll T, N Vandjelovic, M Polonenko, N Li, [AKC Lee](#), R Maddox (2023). “Investigating the effects of selective attention on speech encoding from auditory nerve to cortex,” *46th Mid-Winter Meeting of the Association for Research in Otolaryngology, Orlando, USA, Feb 11-15, 2023.*
- [C96] DeFreese A, E Larsen, [AKC Lee](#), M Wallace, R Gifford (2023). “Visual plasticity and functional communication in hearing aid users,” *46th Mid-Winter Meeting of the Association for Research in Otolaryngology, Orlando, USA, Feb 11-15, 2023.*
- [C95] Lau BK, S Taulu, PK Kuhl, [AKC Lee](#) (2022). “Individual variability in the development of hemispheric lateralization to speech in infants with and without hearing loss,” *Auditory System – Gordon Research Conference, Smithfield, RI, July 10-15, 2022.*
- [C94] Gijbels L, J Yeatman, [AKC Lee](#) (2022). “Audiovisual speech perception in children with or without developmental dyslexia,” *Auditory System – Gordon Research Conference, Smithfield, RI, July 10-15, 2022.*
- [C93] Drew, J, E Larson, N Foti, R Nadkarni, E Fox, [AKC Lee](#) (2022). “Dynamic functional connectivity in subjects with Autism Spectrum Disorder,” *Auditory System – Gordon Research Conference, Smithfield, RI, July 10-15, 2022.*

- [C92] Gijbels L, R Cai, [AKC Lee](#) (2022). “Considerations for virtual studies of early childhood development,” *Virtual Conference on Computational Audiology*, virtual, June 30-July 1, 2022.
- [C91] Lau, BK, A Estes, S Dager, [AKC Lee](#) (2022). “Searching for the etiology of auditory processing differences in autism: a comprehensive clinical, neurophysiological, and behavioral assay,” *60th Annual Meeting of the Psychiatric Research Society*, Park city, UT, March 2-4, 2022.
- [C90] Gijbels L, J Yeatman, K Lalonde, [AKC Lee](#) (2021). “Children’s age matters, but not for audiovisual speech enhancement,” *181st Meeting of the Acoustical Society of America*, Seattle, WA, Nov 9-Dec 3, 2021.
- [C89] Gijbels L, J Yeatman, [AKC Lee](#) (2021). “Moderated vs. unmoderated remote audiovisual speech perception tasks in children,” *181st Meeting of the Acoustical Society of America*, Seattle, WA, Nov 9-Dec 3, 2021.
- [C88] Gijbels, L, R Cai, PM Donnelly, [AKC Lee](#), P Kuhl (2021). “Considerations for virtual, moderated studies of early childhood development,” *Be Online* (virtual), Cambridge, United Kingdom, June 29-30, 2021.
- [C87] Gijbels L, J Yeatman, K Lalonde, [AKC Lee](#) (2021). “Audiovisual processing in relationship to Phonological and vocabulary skill in first-graders,” *48th Annual Scientific and Technology Conference of the American Auditory Society*, virtual, March 4-6, 2021.
- [C86] Kendall, D, VB Fleming, S Kover, [AKC Lee](#), H Siburt (2021). “Confronting Systemic Racism in CSD: A Roadmap for Academic Training Programs,” *2021 CAPCSD Annual Conference*, virtual, April 8-10, 2021.
- [C85] [Lee AKC](#), D McAlpine (2020). “Opportunities and Challenges in Establishing International Collaboration – a Transpacific Story,” *179th Meeting of the Acoustical Society of America*, Chicago, May 11-15, 2020 (*cancelled due to COVID-19*).
- [C84] [Lee AKC](#) (2020). “Framing undergraduate education approaches in speech and hearing sciences – liberal arts, vocational, or skill-set oriented,” *179th Meeting of the Acoustical Society of America*, Chicago, May 11-15, 2020 (*presented at 180th ASA virtual meeting, Jun 8-10, 2021*).
- [C83] Emmons KA, BK Lau, E Larson, S Dager, A Estes, [AKC Lee](#) (2020). “Auditory attention switching difficulty in individuals with autism spectrum disorder,” *International Society for Autism Research 2020 Annual Meeting*, Seattle, May 6-9, 2020. (*e-poster presentation due to COVID-19*).
- [C82] Mamiya PC, T Richards, ERA Edden, [AKC Lee](#), MA Stein, PK Kuhl (2020). “Strength of neural pathways connecting caudate nucleus and anterior cingulate cortex predicts GABA concentrations in Attention-Deficit/Hyperactivity Disorder,” *Basal Ganglia – Gordon Research Conference*, Ventura, CA, March 8-13, 2020.
- [C81] An, WW, H Si-Mmohammed, N Huang, H Gamper, [AKC Lee](#), C Holtz, D Johnston, M Jalobeanu, D Emmanouilidou, E Cutrell, A Wilson, I Tashev (2020). “Decoding auditory and tactile attention for use in an EEG-based brain computer interface,” *8th International Winter Conference on Brain-Computer Interface*, Korea, Feb 26-28, 2020.
- [C80] Lau, BK, S Taulu, PK Kuhl, [AKC Lee](#) (2020). “The Neural Processing of Sound at 3 Months,” *43rd Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Jose, USA, January 25-29, 2020.
- [C79] Lau, BK, S Taulu, PK Kuhl, [AKC Lee](#) (2019). “Infant neural response to speech and tones,” *Advances and Perspectives in Auditory Neuroscience*, Chicago, October 18, 2019.
- [C78] Nadkarni R, N Foti, E Larson, E Fox, [AKC Lee](#) (2019). “Inferring Functional Connectivity via a time-varying state-space modeling approach: an Auditory Attention Task Example,” *CRCNS PI meeting*, Austin, TX, Sept 2-4, 2019.
- [C77] Lau, BK, A Estes, S Dager, [AKC Lee](#) (2019). “Auditory processing in autism spectrum disorder: probing individual differences with behavioral, audiological, and neurophysiological measures,” *International Symposium for Autism Research*, Montreal, Canada, May 6-9, 2019
- [C76] Lau, BK, RK Maddox, A Estes, S Dager, [AKC Lee](#) (2018). “Combining clinical, behavioral, and neurophysiological measures to investigate auditory processing abnormalities in individuals with autism spectrum disorder,” *Proceedings of Meetings on Acoustics*, **35**: 050004, doi: 10.1121/2.0000971.
- [C75] Chang KH, R Maddox, [AKC Lee](#), GM Boynton (2018). “Temporal Coherence of Audio-Visual Objects in Human Primary Auditory Cortex,” *2018 Society for Neuroscience Annual Meeting*, San Diego, Nov 3-7, 2018.
- [C74] Ainsworth S, NJ Foti, [AKC Lee](#), EB Fox (2018). “Interpretable VAEs for nonlinear group factor analysis,” *International Conference on Machine Learning (ICML)*, Stockholm, Sweden, July 10-15, 2018.
- [C73] McLaughlin SA, JC Thorne, B Lau [AKC Lee](#) (2018). “Listening Difficulties, Social Reciprocity, and Social Communication Abilities in Adolescents and Adults with FASD,” *International Research Conference on Adolescents and Adults with Fetal Alcohol Spectrum Disorder*, Vancouver, Canada, April 18-21, 2018.
- [C72] Baum S, RK Maddox, E Larson, [AKC Lee](#) (2018). “Temporally Coherent Audiovisual Signals Enhance Auditory Target Processing,” *41st Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 9-14, 2018.
- [C71] Whittle N, E Larson, CW Miller, [AKC Lee](#) (2018). “Effects of hearing loss on maintaining and switching attention,” *41st Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 9-14, 2018.
- [C70] [Lee AKC](#), C Stecker (2017). “The ins and outs of capturing brain activities associated with auditory perception and cognition,” *Acoustics '17 Boston*, Boston, June 25-29, 2017.
- [C69] Foti N, R Nadkarni, E Larson, E Fox, [AKC Lee](#) (2017). “Inferring Functional Connectivity with Sparse plus Low-rank Graphical Model: an Auditory Attention Task Example,” *CRCNS PI meeting*, Providence, June 14-16, 2017.

- [C68] McLaughlin SA, JC Thorne, S Astley, [AKC Lee](#) (2017). "Characterizing Central Auditory Processing and Sound-in-Noise Listening Deficits in Individuals with FASD," *7th International Conference on FASD*, Vancouver, Mar 2-4, 2017.
- [C67] McCloy D, [AKC Lee](#) (2016). "Modeling native phonology and non-native speech perception using electroencephalography signals," *172nd Meeting of the Acoustical Society of America*, Honolulu, Nov 28-Dec 2, 2016.
- [C66] Kishline LR, [AKC Lee](#), RK Maddox (2016). "Investigating the effect of selective attention and the spatial relationships of competing auditory stimuli on the sound-induced flash illusion," *172nd Meeting of the Acoustical Society of America*, Honolulu, Nov 28-Dec 2, 2016.
- [C65] Maddox RK, D Pospisil, [AKC Lee](#) (2016). "Uninformative dynamic visual stimuli aid in segregating two similar acoustic stimuli, but not in detecting a single stimulus in noise," *172nd Meeting of the Acoustical Society of America*, Honolulu, Nov 28-Dec 2, 2016.
- [C64] [Lee AKC](#), S McLaughlin, E Larson (2016). "Switching of auditory attention," *172nd Meeting of the Acoustical Society of America*, Honolulu, Nov 28-Dec 2, 2016.
- [C63] Larson E, [AKC Lee](#) (2016). "Using M-EEG to investigate pupillometry as a biomarker," *20th International Conference on Biomagnetism*, Seoul, Korea, October 2-6, 2016.
- [C62] Foti N, R Nadkarni, E Larson, E Fox, [AKC Lee](#) (2016). "Time Series Graphical Models as Exploratory Tools to Uncover Functional Connectivity in MEG Recordings," *20th International Conference on Biomagnetism*, Seoul, Korea, October 2-6, 2016.
- [C61] Nadkarni R., Foti, N. J., Lee, A. K. C. and Fox, E. B. (2016). "Sparse plus low-rank graphical models of time series for functional connectivity in MEG." *2nd Knowledge Discovery and Data Mining Workshop on Mining and Learning from Time Series*, San Francisco, Aug 14, 2016.
- [C60] Wronkiewicz M, [AKC Lee](#) (2016). "Incorporating Neuroscience Priors to Improve Classification of Attentional State in Brain-Computer Interfaces," *6th International BCI Meeting*, Asilomar, USA, May 30-June 3, 2016.
- [C59] Marrett K, M Wronkiewicz, M Tangermann, [AKC Lee](#) (2016). "A User-Centered Approach for an Auditory P300 Brain-Computer Interface," *6th International BCI Meeting*, Asilomar, USA, May 30-June 3, 2016.
- [C58] Lau BK, SA McLaughlin, RK Maddox, [AKC Lee](#) (2016). "Assessing Auditory Processing in Adolescents with Behavioral and Electrophysiological Measures," *Frequency Following Response Workshop*, Boston, USA, May 19-20, 2016.
- [C57] Ekin B, L Atlas, M Mirbagheri, [AKC Lee](#) (2016). "An Alternative Approach for Auditory Attention Tracking using Single-trial EEG," *41st IEEE International Conference on Acoustics, Speech and Signal Processing*, Shanghai, China, March 20-25, 2016.
- [C56] McLaughlin SA, JC Thorne, [AKC Lee](#) (2016). "Characterizing Auditory Processing in Adolescents and Adults with FASD," *7th National Biennial Conference on Adolescents and Adults with FASD: Research on Adolescents and Adults: If Not Now, When?* Vancouver, Canada, April 7-9, 2016.
- [C55] Maddox RK, [AKC Lee](#) (2016). "Relating Measured and Self-Assessed Selective Listening Abilities to Behavioral and Electrophysiological Assays of Spatial Coding," *39th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 20-24, 2016.
- [C54] Kishline LR, [AKC Lee](#), RK Maddox (2016). "Manipulating the spatial relationship of visual and competing auditory stimuli in the sound-induced flash illusion," *39th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 20-24, 2016.
- [C53] Mirbagheri M, B Ekin, L Atlas, [AKC Lee](#) (2015). "Flexible tracking of auditory attention," *Interspeech 2015*, Dresden, Germany, September 6-10, 2015.
- [C52] Brumberg J, C Stepp, E Lalor, [AKC Lee](#) (2015). "Biosignal acquisition and analysis for speech production and perception: electromyography, electroencephalography and magnetoencephalography (EMG, EEG and MEG)," *Interspeech 2015*, Dresden, Germany, September 6-10, 2015. (Tutorial co-organizer)
- [C51] Maddox R, E Larson, [AKC Lee](#) (2015). "In search of neural correlates of audio-visual binding," *16th International Multisensory Research Forum*, Pisa, Italy, June 13-16, 2015.
- [C50] Maddox R, [AKC Lee](#) (2015). "Relating behavioral and electrophysiological measures to spatial release from masking in individual subjects," *38th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, February 21-25, 2015.
- [C49] Wronkiewicz M, E Larson, [AKC Lee](#) (2014). "Applying source imaging to advance non-invasive brain-computer interfaces," *IEEE EMBS BRAIN Grand Challenges Conference*, Washington DC, November 13-14, 2014.
- [C48] McCloy D, [AKC Lee](#) (2014). "Effects of Cognitive Load on Selective and Divided Auditory Spatial Attention," *167th Meeting of the Acoustical Society of America*, Providence, May 5-9, 2014.
- [C47] Atilgan H, R Maddox, [AKC Lee](#), J Bizley (2014). "Temporal Coherence Leads to the Formation of Auditory-Visual Objects II: Detection of Auditory Timbre Deviants," *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014.
- [C46] Maddox R, [AKC Lee](#) (2014). "Temporal Coherence Leads to the Formation of Auditory-Visual Objects II: Detection of Auditory Frequency Excursions," *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014.

- [C45] Kishline L, E Larson, [AKC Lee](#) (2014). "Can You Divide Attention Across Two Streams or are You Rapidly Switching Between Them?" *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, Feb 22-26, 2014.
- [C44] Ingle K, E Larson, [AKC Lee](#) (2014). "Effects of Reverberation During Attention Switching in Normal Hearing Listeners," *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014.
- [C43] Larson E, M Kim, [AKC Lee](#) (2014). "Using Pupillometry to Measure Increases in Effort When Switching Attention Between Competing Streams of Degraded Speech," *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014.
- [C42] McCloy D, [AKC Lee](#) (2013). "Selective and divided attention: Spatial orienting in a semantic classification task," *166th Meeting of the Acoustical Society of America*, San Francisco, December 2-6, 2013.
- [C41] Kishline L, E Larson, RK Maddox, [AKC Lee](#) (2013). "Selective and divided attention: Spatial and pitch "spotlights" in a non-semantic task," *166th Meeting of the Acoustical Society of America*, San Francisco, December 2-6, 2013.
- [C40] Wronkiewicz M, E Larson, [AKC Lee](#) (2013). "Developing a region-of-interest brain-state classifier informed by multiple neuroimaging techniques," *2013 Society for Neuroscience Annual Meeting, San Diego*, November 9-13, 2013.
- [C39] Wronkiewicz M, E Larson, [AKC Lee](#) (2013). "Towards a next-generation hearing aid through brain state classification and modeling," *IEEE-EMBS*, Osaka, July 3-7, 2013. PMC5930482. doi: 10.1109/EMBC.2013.6610124
- [C38] [Lee AKC](#), LE Atlas, X Li (2013). "Complementary Correlation May Offer a New Approach to Better Understand Temporal Fine Structure Coding," *165th Meeting of the Acoustical Society of America*, Montreal, Canada, June 2-7, 2013.
- [C37] Lalor E, N Mesgarani; S Rajaram, A O'Donovan, J Wright, I Choi, J Brumberg, N Ding, [AKC Lee](#), N Peters; S Ramenahalli, J Pompe, B Shinn-Cunningham, M Slaney, S Shamma (2013). "Decoding Auditory Attention (In Real Time) with EEG," *36th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, February 16-20, 2013.
- [C36] Maddox R, [AKC Lee](#) (2013). "Crossmodal Influences on Steady-State Responses in a Subjective Audio-Visual Binding Task," *36th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, Feb 16-20, 2013.
- [C35] Larson E, [AKC Lee](#) (2013). "Switching Auditory Attention Using Spatial and Non-spatial Features Recruits Different Cortical Networks" *36th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, February 16-20, 2013.
- [C34] Larson E, KY Lee, [AKC Lee](#) (2012). "Cognitive Cost of Switching Auditory Attention," *2012 ASHA convention, Atlanta, USA*, Nov 15-17, 2012.
- [C33] Maddox R, Chung W, [AKC Lee](#) (2012). "What is so hard about selectively attending?" *The Acoustics 2012 Hong Kong, Hong Kong SAR, China*, May 13-18, 2012.
- [C32] Larson E, [AKC Lee](#) (2012). "Probing the cortical dynamics involved in ignoring a low-salience distracting sound," *The Acoustics 2012 Hong Kong, Hong Kong SAR, China*, May 13-18, 2012.
- [C31] Cheung W, R Maddox, [AKC Lee](#) (2012). "Pushing the Limit of Selective Attention in an Overcrowded Auditory Scene," *35th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, USA*, February 19-23, 2012.
- [C30] Mehraei G, [AKC Lee](#), S Bressler, BG Shinn-Cunningham (2012). "Effect of Timing on Perceptual Continuity of Streams," *35th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, USA*, February 19-23, 2012.
- [C29] Bharadwaj H, [AKC Lee](#), BG Shinn-Cunningham (2012). "Hijacking Neural Oscillations to Reveal Control of Auditory Attention," *35th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, USA*, February 19-23, 2012.
- [C28] Larson E, [AKC Lee](#) (2011). "Toward Incorporating Anatomical Information in BCI Designs," *5th International Brain-Computer Interface Conference 2011, Graz, Austria, September 22-24, 2011*.
- [C27] [Lee AKC](#) (2011). "Cortical Dynamics of Auditory Spatial Attention," *17th Annual Meeting, Cognitive Science Association for Interdisciplinary Learning (CSAIL), Hood River, Oregon, Aug 4-8, 2011*.
- [C26] Larson E, [AKC Lee](#) (2011). "Cortical dynamics during endogenous redirection of auditory spatial attention," *First International Conference on Cognitive Hearing Science, Linköping, Sweden, June 19-22, 2011*.
- [C25] Xia J, L Zhu, [AKC Lee](#), B Shinn-Cunningham (2011). "Behavioral, brainstem, and cortical differences between musicians and non-musicians," *First International Conference on Cognitive Hearing Science, Linköping, Sweden, June 19-22, 2011*.
- [C24] Rajaram S, H Bharadwaj, BG Shinn-Cunningham, [AKC Lee](#) (2011). "Cortical functional connectivity inference using MEG", *8th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart/8th International Conference on Bioelectromagnetism, Banff, Canada, May 13-16 2011. (Equal 2nd prize for student paper / poster award)*
- [C23] Bharadwaj H, [AKC Lee](#), BG Shinn-Cunningham, (2011). "Measuring auditory attention using frequency tagging", *Computational and Systems Neuroscience (COSYNE) 2011, Salt Lake City, USA, Feb 24-27, 2011*.
- [C22] Bizley J, Shinn-Cunningham, B, [AKC Lee](#) (2011). "Intra- and inter-modal spatial attention: a case of counting flashes 'n beeps,'" *34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, USA, Feb 19-23, 2011*.
- [C21] Agam Y, M Hämäläinen, [AKC Lee](#), K Dyckman, J Friedman, M Isom, DS Manoach (2010). "Multimodal functional imaging of the neural response to errors reveals a primary role for posterior cingulate cortex," *2010 Society for Neuroscience Annual Meeting, San Diego, USA, November 13-17, 2010*.

- [C20] Varghese L, J Xia, AKC Lee (2010). "Managing Acoustic Communications in High-Stress Settings," (NSSEFF Fellow: Barbara Shinn-Cunningham), *National Security Science and Engineering Faculty Fellowship Conference and Lab Tours, Arlington, VA, 2010*.
- [C19] Kenet T, E Orekhova, H Bharadwaj, NR Shetty, AKC Lee, M Vangel, M Elam, M Herbert, MS Hämäläinen, DS Manoach (2010). "A MEG Study of Functional Connectivity During Preparation for Saccades in ASD," *International Society for Autism Research, Philadelphia, USA, May 20-22, 2010*.
- [C18] Lee AKC, S Rajaram, J Xia, MS Hämäläinen, BG Shinn-Cunningham (2010). "MEG and EEG measures of spatial and pitch-based selective auditory attention: Frontal eye fields activation," *31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Anaheim, USA, February 6-10, 2010*.
- [C17] Xia J, AKC Lee, S Rajaram, B Shinn-Cunningham (2010). "Behavioral measures of spatial and pitch-based selective auditory attention," *31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Anaheim, USA, Feb 6-10, 2010*.
- [C16] Lee AKC, J Xia, S Rajaram, B Shinn-Cunningham, M Hämäläinen (2009). "Frontal Eye Fields are involved in auditory spatial attention," *2009 Binaural BASH meeting, Boston, USA, October 23-24, 2009*.
- [C15] Marinkovic K, E Rickenbacher, S Azma, E Artsy, AKC Lee (2009). "Effects of alcohol intoxication on oculomotor control: an fMRI study," *2009 Society for Neuroscience Annual Meeting, Chicago, USA, October 17-21, 2009*.
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