

Curriculum Vitae

Adrian KC Lee

Professor

Department of Speech and Hearing Sciences

Institute for Learning & Brain Sciences

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EDUCATION AND PROFESSIONAL HISTORY

Education

ScD Health Sciences and Technology (2003 – 2007)
Harvard-MIT Division of Health Sciences and Technology
Massachusetts Institute of Technology
Cambridge, MA, USA

BEng Electrical Engineering (1998 – 2002)
The University of New South Wales
Sydney, NSW, Australia

Doctoral Dissertation Title

Influence of spatial cues on the identification and the localization of objects in the auditory foreground

Supervisor: Barbara Shinn-Cunningham

Employment / Professional Experience

2020 – present Department Chair of Speech & Hearing Sciences
University of Washington, Seattle, WA

2019 – present Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
University of Washington, Seattle, WA

2019 – present Adjunct Professor of Electrical & Computer Engineering
University of Washington, Seattle, WA

2019 Brain-Computer Interface Research Consultant
Microsoft Research, Redmond, WA

2016 – present Research Affiliate, Center on Human Development and Disability
University of Washington, Seattle, WA

2015 – 2019 Associate Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
University of Washington, Seattle, WA

2015 – 2019 Adjunct Associate Professor of Electrical Engineering
University of Washington, Seattle, WA

2014 – present Affiliate Faculty, Institute of Neuroengineering
University of Washington, Seattle, WA

2012 – present Affiliate Faculty, Computational Neuroscience Training Program
University of Washington, Seattle, WA

2011 – present Faculty member, Graduate Program in Neuroscience
University of Washington, Seattle, WA

- 2011 – present Faculty member, NSF Engineering Research Center for Sensorimotor Neural Engineering
University of Washington, Seattle, WA
- 2011 – present Affiliate Faculty, Virginia Merrill Bloedel Hearing Research Center
University of Washington, Seattle, WA
- 2011 – 2015 Assistant Professor of Speech & Hearing Sciences, Institute for Learning & Brain Sciences
University of Washington, Seattle, WA
- 2011 – 2015 Adjunct Assistant Professor of Electrical Engineering
University of Washington, Seattle, WA
- 2011 – 2015 Visiting Faculty
Harvard-MIT Martinos Center for Biomedical Imaging, Charlestown, MA
- 2009 – 2010 Director of Boston Area Machine-Brain Interface consortium, NSF-CELEST
Boston University, Boston, MA
- 2009 – 2010 Research Fellow, Department of Radiology
Harvard Medical School & Massachusetts General Hospital, Boston, MA
- 2007 – 2009 Research Fellow, Department of Psychiatry
Harvard Medical School & Massachusetts General Hospital, Boston, MA
- 2007 – 2010 Research Associate, Cognitive and Neural Systems
Boston University, Boston, MA
- 2005 Visiting Scholar
Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK
- 2003 – 2007 Research Assistant, Cognitive and Neural Systems,
Boston University, Boston, MA
- 2003 Research Assistant, Electrical Engineering & Telecommunications
The University of New South Wales, Sydney, Australia
- 2002 Visiting Scholar
The Bionic Ear Institute, Melbourne, Australia

UW Committees / Courses / Other Duties

Department / Center Directorship

- 2020 – present Chair of Speech & Hearing Sciences
- 2018 – present Transpacific Hearing Center, Director
- 2013 – 2018 Center for Auditory Neuroimaging, Director

University Committees

- 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

- 2018 – 2020 Director of Research, Speech & Hearing Sciences
- 2018 – 2020 Director of PhD program, Speech & Hearing Sciences
- 2015 – 2017 Head of Interest Group (Fundamental Mechanisms), Speech & Hearing Sciences
- 2015 – 2017 Executive Committee, Speech & Hearing Sciences
- 2015 – 2016 Development Committee, Speech & Hearing Sciences
- 2015 Search Committee for professorial position (Matthew Winn, PhD)
- 2013 – 2017 PhD Admission Committee, Speech & Hearing Sciences
- 2013 – 2015 Peer Teaching Evaluation Committee, Speech & Hearing Sciences
- 2011 – 2012 PhD Admission Committee, Neuroscience Graduate Program

Faculty 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

2012 – 2013 Biomedical Research Integrity Series, Group Leader

2013 Panelist in Future Faculty Fellows Workshop, UW School of Medicine

2017 – present Coordinator, Collaborative Research Area on Learning Disabilities, UW-CHDD

2018 (Fall) Committee Member, Royalty Research Fund

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 starting 2019)

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)

Undergraduate Courses

2014 – 2019 SPHSC 425: Speech, Language, Hearing and the Brain

2012 – 2017 SPHSC 261: Nature of Sound

2019 – 2020 SPHSC 461: Introduction to Hearing Science

Graduate Courses

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, open to postdoctoral trainees

2011 – present SPHSC 594: Capturing Brain Dynamics—a Combined Neuroscience and Engineering Approach. Cross-listed in the following departments: Linguistics, Psychology.

Postdoctoral Fellows Mentorship

04/15 – 06/20 Bonnie Lau, PhD *in Speech & Hearing Sciences (University of Washington)*

08/16 – 07/19 Sarah Baum Miller, PhD *in Neuroscience (University of Texas Health Science Center)*

06/13 – 01/19 Dan McCloy, PhD *in Linguistics (University of Washington)*

10/13 – 09/18 Susan McLaughlin, PhD *in Speech & Hearing Sciences (University of Washington)*

04/15 – 08/17 Nicholas Foti, PhD *in Computer Science (Dartmouth College); co-supervised with Emily Fox in Statistics*

10/14 – 07/17 Majid Mirbagheri, PhD *in Electrical Engineering (University of Maryland)*

06/11 – 08/16 Ross Maddox, PhD *in Biomedical Engineering (Boston University)*

01/11 – 12/14 Eric Larson, PhD *in Biomedical Engineering (Boston University)*

Other Postdoctoral Trainee Mentorship / Advisory Committee

07/20 – 06/23 Gavriel Kohlberg, MD *member of mentoring committee, AOS CSA (PI: Gavriel Kohlberg)*

07/16 – 07/17 Brent Wilkerson, PhD *member of mentoring committee, ANTG T32 (PI: Olivia Bermingham-McDonogh)*

07/16 – 08/17 Kaylah Lalonde, PhD *co-mentor in F32/NRSA grant (PI: Lynne Werner)*

Doctoral Supervisory / Thesis Committee / Project supervisor

09/10 – present Liesbeth Gijbels, *Speech & Hearing Sciences* Role: PhD advisor

01/20 – present Jordan Drew, *Electrical Engineering* Role: PhD advisor

09/14 – 03/20 Lindsey Kishline, *Speech & Hearing Sciences (NSF GRFP scholar)* Role: PhD advisor
Title: Investigating the effects of audio-visual spatial congruence on multisensory integration

09/12 – 03/17 Mark Wronkiewicz, *Neuroscience (NSF GRFP scholar)* Role: PhD advisor
Title: Incorporating neuroscience methods and knowledge into brain-computer interfaces

06/17 – 11/19 Elle O'Brien, *Speech & Hearing Sciences* Role: PhD co-advisor (Primary: Yeatman)

11/17 – 12/18 Kelly Chang, *Psychology* Role: PhD dissertation committee member

06/17 – 12/18 Gabriel Obregon-Henao, *Neuroscience* Role: PhD dissertation committee member

11/18 – 12/18 Tristram Savage, *Psychology* Role: PhD dissertation committee member

01/17 – 07/18 Elliot Saba, *Electrical Engineering* Role: PhD dissertation committee member

08/16 – 07/18 Alex Tank, *Statistics* Role: PhD dissertation committee member

02/15 – 03/20 Melanie Fish, *Speech & Hearing Sciences* Role: PhD dissertation committee member

01/14 – 08/18	Mona Oster,	<i>Speech & Hearing Sciences</i>	Role: PhD dissertation committee member
03/14 – 01/17	Mishaela DiNino,	<i>Speech & Hearing Sciences</i>	Role: PhD dissertation committee member
09/13 – 03/16	Elizabeth Huber,	<i>Psychology</i>	Role: PhD dissertation committee member
	<i>Title: Auditory perception and cortical plasticity after long-term blindness</i>		
10/12 – 04/15	Christina Zhao,	<i>Speech & Hearing Sciences</i>	Role: PhD dissertation committee member
	<i>Title: The effects of early musical training</i>		
02/11 – 06/13	Susan A McLaughlin,	<i>Speech & Hearing Science</i>	Role: PhD dissertation committee member
	<i>Title: Functional magnetic resonance imaging of human auditory cortical tuning to interaural level and time difference</i>		
05/20 – 08/21	Erica Seely	<i>Speech & Hearing Sciences</i>	Role: MS SLP thesis advisor
	<i>Title: The development of hemispheric lateralization of speech: A systematic review</i>		
09/19 – 12/20	Piper Doering,	<i>Speech & Hearing Sciences</i>	Role: MS SLP thesis advisor
	<i>Title: Can computational models of reading aloud account for how individuals who are deaf and hard of hearing read?</i>		
06/16 – 08/17	Nicole Whittle,	<i>Speech & Hearing Sciences</i>	Role: AuD capstone project advisor
09/12 – 07/14	Mihwa Kim,	<i>Speech & Hearing Sciences</i>	Role: AuD capstone project advisor
	<i>Title: Using pupillometry to measure increases in effort when switching attention between competing streams of degraded speech</i>		
09/12 – 07/14	Sara Chai,	<i>Speech & Hearing Sciences</i>	Role: AuD capstone project advisor
	<i>Title: A historical survey of central auditory processing disorder test battery</i>		
08/11 – 04/14	Elliot Saba,	<i>Electrical Engineering</i>	Role: Master thesis supervisor
	<i>Title: A fresh look at functional connectivity analysis</i>		
07/14 – 08/14	Allison Stewart	<i>Speech & Hearing Sciences</i>	Role: Master thesis reader (SLP)
	<i>Title: Neurofeedback as a potential treatment for stuttering</i>		
07/15 – 06/16	Bradley Ekin,	<i>Electrical Engineering</i>	Role: Master thesis committee member
	<i>Title: Optimized decoding for auditory attention detection</i>		
01/15 – 06/18	Jason Webster,	<i>Psychology</i>	Role: Graduate School Representative
04/14 – 06/16	Dae Han Won,	<i>Industrial and Systems Engineering</i>	Role: Graduate School Representative
	<i>Title: Optimization and machine learning frameworks for complex network analysis</i>		
01/14 – 06/15	Jessica Thomas,	<i>Psychology</i>	Role: Graduate School Representative
	<i>Title: Encoding and decoding models of functional MRI responses in human visual and auditory cortex</i>		
06/12 – 06/14	Brad Pierson,	<i>Music</i>	Role: Graduate School Representative
	<i>Title: Hugo Distler (1908-1942): Recontextualizing Distler's music for performance in the twenty-first century</i>		
02/11 – 06/13	Xing Li,	<i>Electrical Engineering</i>	Role: Graduate School Representative
	<i>Title: Temporal fine structure and applications to cochlear implants</i>		
01/11 – 12/12	Brian J King,	<i>Electrical Engineering</i>	Role: Graduate School Representative
	<i>Title: A framework for complex probabilistic latent semantic analysis and its application to single-channel source separation</i>		
04/14 – 06/14	Kaitlyn Casimo,	<i>Neuroscience</i>	Role: Rotation supervisor

Outside UW Mentorship / Thesis Supervisory

Graduate students

09/12 – 09/14	Golbarg Mehraei	<i>at Harvard-MIT HST, SHBT Program</i>
07/10 – 04/14	Hari Bharadwaj	<i>at Department of Biomedical Engineering, Boston University</i>
07/09 – 12/13	Siddharth Rajaram	<i>at Boston University Hearing Research Center</i>

Other professional mentorship

05/21	Invited Instructor, Summer Undergraduate Research / Internship Experience in Acoustics, <i>Acoustical Society of America</i> , virtual, May 17-29, 2021
02/16	Invited Faculty, Mentoring program at <i>39th Mid-Winter Meeting of the Association for Research in Otolaryngology</i> , San Diego, USA, February 20-24, 2016
07/15	Invited Faculty, <i>2nd Frederick Jelinek Memorial Summer Workshop</i> on “Probabilistic Transcription of Languages with no Native-Language Transcribers” (biosignal processing component), University of Washington, Seattle, June 22-Aug14, 2015

- 02/14 Invited Faculty, Mentoring program at *37th Mid-Winter Meeting of the Association for Research in Otolaryngology*, San Diego, USA, February 22-26, 2014
- 02/13 Invited Faculty, Mentoring program at *36th Mid-Winter Meeting of the Association for Research in Otolaryngology*, Baltimore, USA, February 16-20, 2013
- 07/12 Invited Faculty at *Telluride Neuromorphic Cognition Engineering Workshop*, Telluride, Colorado

RESEARCH

Research Projects / Grants

Active (1)

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)

Completed (9)

- 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)

Professional service / awards

Service

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)

- Strategic Group Task 3 (Dissemination of Information and Knowledge), Chair (from 2018), 2016-2019
- Committee on Education in Acoustics, Member, 2015-2016; 2019-present
- Technical Committee, Physiological and Psychological Acoustics, Member, 2013-2016
- International Liaison Committee, Member, 2018-2021

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

- Acta Acustica united with Acustica*
- Brain & Language*
- Brain Research*
- Brain Structure & Function*
- Cerebral Cortex*
- Clinical Neurophysiology*
- Cortex*

- Current Biology*
- Ear and Hearing*
- eLife*
- Frontiers in Behavioral Neuroscience*
- Frontiers in Auditory Cognitive Neuroscience*
- Frontiers in Human Neuroscience*
- Hearing Research*

Human Brain Mapping
IEEE Access
JARO - Journal of the Assoc. for Research in Otolaryngology
Journal of the Acoustical Society of America
Journal of Computer Science and Technology
Journal of Experimental Psychology: Humans Perception & Performance
Journal of Neurophysiology
Journal of Neuroscience
Learning & Perception
Nature
Nature Neuroscience

NeuroImage
Neuron
Neuroscience
Neuropsychiatric Disease and Treatment
Neuropsychologia; Philosophical Transactions B
PLOS Biology
PLOS ONE
Proceedings of the IEEE (Signal Processing)
Proceedings of the National Academy of Sciences of USA (PNAS)
Psychological Research
Psychophysiology
Scientific Reports

Ad-hoc Conference Reviewer

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

Ad-hoc Grant Reviewer

University

Royalty Research Fund (RRF)

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)

European Research Council

French National Research Agency

Hong Kong SAR Government Innovation and Technology Fund

Israel Science Foundation

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

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 “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

- 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

Membership

- 2020- Member, Sigma Xi – The Scientific Research Honors Society
- 2013- Member, IEEE
- 2008- Member, Society for Neuroscience
- 2005- Member, Acoustical Society of America
- 2004- Member, Association for Research in Otolaryngology

Awards

- 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

Papers / Talks

Invited Talks

- [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
** secondary contribution
*** minor contribution

+ postdoctoral fellow author
++ graduate student author
+++ undergraduate author

Patents / Patent Applications

[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)

- [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)

- [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*.
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*. 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
[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.

- [J39] ⁺McCloy D, *[AKC Lee](#) (2019). “EEG-derived phoneme confusion matrices show the fit between phonological feature systems and brain responses to speech,” *Language, Cognition and Neuroscience*, **34**(5): 662-676.
- [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
- [J32] Hasegawa-Johnson M, P Jyothi, ⁺D McCloy, M Mirbagheri, G di Liberto, A Das, B Ekin, C Liu, V Manohar, H Tang, EC Lalor, N Chen, P Hager, T Kekona, R Sloan, **[AKC Lee](#), (2017). “ASR for under-resourced languages from probabilistic transcription,” *IEEE/ACM Transactions on Audio, Speech and Language Processing*, **25**(1): 50-63. doi: 10.1109/TASLP.2016.2621659
- [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
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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
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- [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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- [J15] Agam Y, C Carey, JJS Barton, KA Dyckman, *** AKC Lee, M Vangel, DS Manoach (2013). "Network dynamics underlying speed-accuracy trade-offs in response to errors," *PLoS ONE*, **8**(9): e73692. PMC3772006. doi: 10.1371/journal.pone.0073692
- [J14] ⁺Larson E, * AKC Lee (2013). "The cortical dynamics underlying effective switching of auditory spatial attention." *Neuroimage*, **64**: 365-70. PMC3508251. doi: 10.1016/j.neuroimage.2012.09.006
- [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
- [J10] * Lee AKC, S Rajaram, J Xia, H Bharadwaj, E Larson, MS Hämäläinen, BG Shinn-Cunningham (2013). "Auditory selective attention reveals preparatory activity in different cortical regions for selection based on source location and source pitch." *Frontiers in Neuroscience*, **6**: Article190. PMC3538445. doi: 10.3389/fnins.2012.00190
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- [J08] Agam Y, MS Hämäläinen, *** AKC Lee, K Dyckman, J Friedman, M Isom, N Makris, DS Manoach (2011). "Multimodal neuroimaging dissociates hemodynamic and electrophysiological correlates of error processing," *Proceedings of the National Academy of Sciences*, **108** (42): 17556-17561. PMC3198335. doi: 10.1073/pnas.1103475108
- [J07] Dyckman KA, *** AKC Lee, Y Agam, M Vangel, D Goff, JJ Barton, DS Manoach (2011). "Abnormally persistent fMRI activation during antisaccades in schizophrenia: a neural correlate of perseveration?" *Schizophrenia Research*, **132** (1): 62-68. PMC3172368. doi: 10.1016/j.schres.2011.07.026
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- [J01] Shinn-Cunningham BG, * AKC Lee, AJ Oxenham (2007). "A sound element gets lost in perceptual competition," *Proceedings of the National Academy of Science*, **104** (29): 12223-27. PMC1924568. doi: 10.1073/pnas.0704641104

Conference Papers / Proceedings (Refereed)

- [C89] 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.
- [C87] 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.

- [C86] 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.
- [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.
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- [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.

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- [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.
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