CURRICULUM VITAE **JULY 2020**

Bonnie Kai Wai Lau, PhD

1. PERSONAL DATA

Place of Birth: Vancouver, BC, Canada

2. EDUCATION

1999-2004	BA, Linguistics/Speech Science, University of British Columbia, Vancouver, BC
2004-2006	MA, Speech-Language Pathology, Northwestern University, Chicago, IL
2009-2014	PhD, Speech and Hearing Sciences, University of Washington, Seattle, WA

3. POSTGRADUATE TRAINING

2014-2015	Psychology, University of Minnesota, Minneapolis, MN
2014-2020	Neuroscience, Institute for Language and Brain Sciences, Seattle, WA

4. FACULTY POSITIONS HELD

Research Assistant Professor, Department of Otolaryngology-Head Neck Surgery, University of Washington (2020-present)

5. HOSPITAL POSITIONS HELD

2008-2009	Speech-Language Pathologist, Sunny Hill Health Center, Vancouver, BC
2006-2007	Speech-Language Pathologist, Blythedale Children's Hospital, Valhalla, NY

6. CURRENT EMPLOYMENT

N/A

7. HONORS

2019	International Society for Autism Research Travel Award
2018	NIH/NIDCD Pathway to Independence Award (K99/R00)
2018	Acoustical Society of America Young Investigator Travel Grant
2016	UW Office of Postdoctoral Affairs Travel Award
2016	Association for Research in Otolaryngology Meeting Travel Award
2013	International Congress of Acoustics Young Scientist Grant
2012	Lesley B. and Steven G. Olswang Endowed Travel Award
2012	Acoustical Society of America Student Travel Award
2011	UW Graduate School's Excellence and Innovation Travel Award
2000	Simon Y.K. Lee Foundation Academic Scholarship

8. BOARD CERTIFICATION

2007-	Certificate of Clinical Competence, Speech-Language Pathology, American Speech-Language-Hearing Association
2009-	Speech-Language Pathology Certificate, Speech-Language and Audiology Canada

9. LICENSURE

2010-	Washington State Speech-Language Pathology License
2007	New York State Speech-Language Pathology License
2006	Illinois State School Certification

10. PROFESSIONAL ORGANIZATIONS

2011- Association for Research in Otolaryngology
2011- Acoustical Society of America
2019- International Society for Autism Research
2012-2019 Cascadia Chapter of the Acoustical Society of America

11. TEACHING RESPONSIBILITIES

A. Course Instructor

University of Washington, Department of Speech and Hearing Sciences

2010 Winter Sounds of American English, 59 Undergraduates
2010 Spring Sounds of American English, 46 Undergraduates
2011 Fall Sounds of American English, 49 Undergraduates
2012 Spring Introduction to Hearing Sciences, 85 Undergraduates
2016 Fall Auditory Development, 22 Doctor of Audiology Students

B. Laboratory Instructor

University of Washington, Department of Speech and Hearing Sciences

2011 Winter Nature of Sound, 58 Undergraduates
2011 Spring Introduction to Hearing Sciences, 82 Undergraduates
2011 Summer Nature of Sound, 29 Undergraduates
2012 Spring Introduction to Hearing Sciences, 85 Undergraduates
2012 Summer Nature of Sound, 29 Undergraduates

C. Master's Students

2019-2020 Piper Doering, Master's Thesis
2020-2021 Erica Sealy, Master's Thesis

D. Undergraduate Students

2019- Ines Sohn, Undergraduate Research
2016-2017 Madeline Dickenson, Undergraduate Research
2016-2017 Rayna Yang, Honor's Thesis
2014-2015 Lisanne Bogard, Undergraduate Research

12. EDITORIAL RESPONSIBILITIES

N/A

13. SPECIAL NATIONAL RESPONSIBILITIES

N/A

14. SPECIAL LOCAL RESPONSIBILITIES

2019- Board Member, Hearing, Speech and Deafness Center

15. RESEARCH FUNDING

A. Current

2018-2023 Sponsor: NIH/NIDCD
K99/R00 DC016640
Title: Development of Neural Processing of Sound in Infancy
Total Costs: $1, 003,165
Role: PI

2019-2024 Sponsor: NIH

R01 MH121462 (PI: Jeste, UW Site PI: Dager)
Title: Toward Scalable-Based Prediction of ASD in High-Risk Infants
UW Site Total Costs: $380,000
Role: EEG Investigator

16. BIBLIOGRAPHY

A. Publications in Refereed Journals

1. **Lau, B.K.** & Werner, L.A. Perception of missing fundamental pitch by 3- and 4-month-old human infants. JASA, 2012; 132(6), 3874-3882.
2. **Lau, B.K.** & Werner, L.A. Infants' ability to perceive the pitch of unresolved harmonics. POMA, 2013; 19(1), 500349.
3. **Lau, B.K.** & Werner, L.A. Perception of the pitch of unresolved harmonics by 3- and 4-month-old human infants. JASA, 2014; 138(2), 760-767.
4. McCloy, D.R., Larson, E.D., **Lau, B.**, & Lee, A.K. Temporal alignment of pupillary response with stimulus events via deconvolution. JASA, 2016; 139(3), EL57-EL62.
5. **Lau, B.K.,** Lalonde, K., Oster, M.M., & Werner, L.A. Infant pitch perception: Missing fundamental melody perception. JASA, 2017; 141(1), 65-72.
6. **Lau, B.K.,** Ruggles, D.R., Katyal, S., Engel, S., & Oxenham, A.J. Sustained cortical and subcortical measures of auditory and visual plasticity following short-term perceptual learning. PLoS One, 2017; 12(1) e0168858.
7. McCloy, D.R., Larson, E.D., **Lau, B.**, & Lee, A.K. Pupillometry shows the effort of auditory attention switching, JASA, 2017; 141(4), 2440-2451.
8. **Lau, B.K.,** Mehta, A.H., & Oxenham. Super-optimal perceptual integration suggests a place-based representation of pitch at high frequencies. J. Neurosci, 2017; 37(37), 9013-9021.
9. **Lau, B.K.**, Maddox, R.K., Estes, A., Dager, S., & Lee, A. K. Combining clinical, behavioral, and neurophysiological measures to investigate auditory processing abnormalities in individuals with autism spectrum disorder. POMA, 2019; 35(1), 050004.

B. Published Books, Videos, Software, etc.

1. **Lau, B.K.,** Auditory development. In J. Damico & M. Ball (Eds.), The SAGE encyclopedia of human communication sciences and disorders. Thousand Oaks, CA: SAGE Publications, Inc. 2019; 212-216.

C. Other Publications

1. **Lau, B.K.,** Ng, M. Infants note the notes. Physics Today, 2017;70(7), 78-79.

D. Abstracts

1. **Lau, B.K.** & Werner, L.A. Perception of the pitch of the missing fundamental at 4 months. ARO MWM Abstracts, 2011; 34, 475.
2. Werner, L., Garinis, A., **Lau, B.,** & Yeager, L. Pitch perception. JASA, 2011; 129, 2540.
3. **Lau, B.K.** & Werner, L.A. Missing fundamental pitch perception with low frequency masking noise in 2- And 3-month-old infants. ARO MWM Abstracts, 2012; 35, 372.
4. Werner, L., **Lau, B.,** & Flad, A. Infants' ability to separate superimposed vowels. The Journal of the Acoustical Society of America, 132(3), 2012; 1996.
5. **Lau, B.K.** & Werner, L.A. Infant missing fundamental pitch sensitivity and melody discrimination. ARO MWM Abstracts, 2014; 37, 508.
6. **Lau, B.K.** & Werner, L.A. Infants ability to perceive changes in timbre. JASA, 2014;135(4), 2163.
7. **Lau, B.K.,** & Oxenham, A.J. Pitch perception: Spectral and temporal integration at very high frequencies. JASA, 2015; 137(4), 2225.

8. **Lau, B.K.,** Ruggles, D.R., Katyal, S., Engel, S., & Oxenham, A.J. The influence of short-term perceptual learning of pitch discrimination and modulation discrimination on subcortical envelope-following and cortical steady-state EEG responses. JASA, 2015; 137, 2409.
9. **Lau, B.K.,** Ruggles, D.R., Katyal, S., Engel, S., & Oxenham, A.J. Cortical and Subcortical Plasticity Following Short Term Perceptual Learning on Auditory and Visual Tasks. ARO MWM Abstracts, 2016; 39, 147.
10. **Lau, B.K.**, & Werner, L.A. Infant sensitivity to fundamental frequency as a segregation cue for concurrent vowels. ARO MWM Abstracts, 2017; 40, 257.
11. **Lau, B.K.,** Maddox, R.K. & Lee, A. K. Behavioral and physiological measures of auditory processing in individuals with autism spectrum disorder. JASA, 2018; 144, 1936.
12. **Lau, B.K.**, Estes, A., Dager, S., Lee, A.K. Auditory processing in autism spectrum disorder: probing individual differences with behavioral, audiological, and neurophysiological measures. INSAR Abstracts, 2019; 348.

17. OTHER

A. Invited National and International Lectures

2014	*Pitch perception prior to cortical maturation.* Department of Psychology, University of Minnesota, Minneapolis, MN
2015	*Pitch perception prior to cortical maturation.* Center for Cognitive Science, University of Minnesota, Minneapolis, MN
2020	*How can studying auditory brain development inform the assessment and treatment of language disorders?* Department of Speech and Hearing Sciences, University of Minnesota, Minneapolis, MN
2020	*How can studying auditory brain development inform the assessment and treatment of language disorders?* Department of Speech and Hearing Sciences, Purdue University, West Lafayette, IN
2020	*How can studying auditory brain development inform the assessment and treatment of language disorders?* Department of Otolaryngology-Head and Neck Surgery, University of Washington, Seattle, WA