Curriculum Vitae

Department of Cognitive Sciences Luke Baltzell University of California, Irvine lucassbaltzell@gmail.com 184 Social Science Laboratory Hearing Lab Irvine, CA 92697-5100 **EDUCATION** 2013-2018 University of California, Irvine Irvine, CA Ph.D Psychology Expected 2013-2016 University of California, Irvine Irvine, CA M.S. Cognitive Science 2006-2010 Reed College Portland, OR B.A. Psychology Senior Thesis: "Interaction between syntax processing in language and

music as a function of bilingualism: An ERP study"

TRAINING/SKILLS

- Digital signal processing / time-series analysis
- Acquisition and analysis of EEG data
- Psychoacoustics
- Statistics
- Programming in MATLAB
- Experience with Python
- Experience with TensorFlow

AWARDS

2016	Outstanding Graduate Student Center for Hearing Research, University of California, Irvin	e Irvine, CA
2009-2010	Commendation for Excellence in Scholarship Administration Committee of Reed College	Portland, OR
2008-2009	Commendation for Excellence in Scholarship Administration Committee of Reed College	Portland, OR
2007-2008	Commendation for Excellence in Scholarship	

GRANTS & FELLOWSHIPS

2014-2016 Interdisciplinary Training Program in Hearing Research, Center for Hearing Research (NIH T32 DC010775)
University of California, Irvine Irvine, CA

2010 Initiative Grant for Undergraduate Research
Office of the President Portland, OR

PUBLICATIONS: Peer-Reviewed

- **Baltzell, LS.**, Srinivasan, R., Richards, VR. (*in press*) "The effect of prior knowledge and intelligibility on the cortical entrainment response to speech" Journal of Neurophysiology
- **Baltzell, LS.**, Horton, C., Yi, S., Richards, VR., D'Zmura, M., and Srinivasan, R. (2016) "Attention selectively modulates cortical entrainment in different region of the speech spectrum," Brain Research, 1644: 203-212.
- Billings, CJ., Penman, TM., Ellis, EM., **Baltzell, LS.**, and McMillan, GP. (2016) "Phoneme and Word Scoring in Speech-in-Noise Audiometry," American Journal of Audiology, 25: 75-83.
- Papesh, MA., Billings, CJ., and **Baltzell LS**. (2014) "Background noise can enhance cortical auditory evoked potentials under certain conditions," Clinical Neurophysiology, doi:10.1016/j.clinph.2014.10.017
- **Baltzell, LS.** and Billings, CJ. (2013) "Sensitivity of offset and onset cortical auditory evoked potentials to signals in noise," Clinical Neurophysiology, 125(2): 370-380.
- Billings, CJ., Papesh, MA., Penman, TM., **Baltzell, LS.**, and Gallun, FJ. (2012) "Clinical Use of Aided Cortical Auditory Evoked Potentials as a Measure of Physiological Detection or Physiological Discrimination," International Journal of Otolaryngology, doi:10.1155/2012/365752

PUBLICATIONS: Other

Baltzell, Lucas S. Interaction Between Syntax Processing in Language and Music as a

Function of Bilingualism: An ERP Study. Diss. Reed College, 2010. OCLC #: 624366709.

CONFERENCE POSTERS

- **Baltzell, LS.**, Richards, VM., Srinivasan, R. (2017) "The cortical entrainment response to speech shows no effect of stimulus intensity," 40th ARO Mid-Winter Meeting; February 11-15.
- **Baltzell, LS.**, Richards, VM., Srinivasan, R. (2016) "Exploring the effects of intelligibility on cortical entrainment," Neuroscience 2016; November 12-16.
- **Baltzell, LS.**, Srinivasan, R., Richards, VM. (2016) "Effects of task demand and intelligibility on the cortical entrainment response," 8th Annual Society for the Neurobiology of Language Conference; August 17-20.
- **Baltzell, LS.**, Horton, C., Shen, Y., Richards, VM., and Srinivasan, R. (2015) "Attentional filtering through cortical entrainment shows sensitivity to frequency," 38th ARO Mid-Winter Meeting; February 16-20.
- **Baltzell, LS.** and Billings, CJ. (2013) "Neural Encoding of Speech in Noise: Comparing Auditory Evoked Offset and Onset Responses," 36th ARO Mid-Winter Meeting; February 16-20.
- **Baltzell, LS.**, Dillman, G., Gallun, FJ., Molis, MR., Konrad-Martin, D., Billings, CJ. (2012) "Auditory Brainstem Encoding of Envelope and Fine Structure: Recording the Frequency Following Response," Northwest Auditory & Vestibular Meeting; October 25-26.
- Papesh, MA., **Baltzell, LS.**, Billings, CJ. (2012) "Can Background Noise Enhance Cortical Encoding?," Northwest Auditory & Vestibular Meeting; October 25-26.

INVITED TALKS

"Attentional filtering through cortical entrainment shows sensitivity to frequency" (May, 2016). *Eleventh Annual Center for Hearing Research Symposium*, University of California, Irvine

PROFESSIONAL SERVICE

• Ad Hoc Reviewer, *JASA*

- Ad Hoc Reviewer, *Hearing Research*
- Ad Hoc Reviewer, Ear and Hearing

PROFESSIONAL AFFILIATIONS

- Member, Society for Neuroscience
- Member, Society for the Neurobiology of Language
- Member, Association for Research in Otolarynology

WORK EXPERIENCE

2017 Starkey Hearing Technologies

Berkeley, CA

Research Intern

2013 – 2014 University of California Irvine

Irvine, CA

Teaching Assistant

2011 – 2013 National Center for Rehabilitative Auditory Research **Research Assistant** for Dr. Curtis Billings

Portland, OR

2011 Department of Linguistics, UCLA

Los Angeles, CA

Research Assistant for Dr. Carson Schutze

2010 – 2011 SUN After-School Program, Grout Elementary **Instructor** through Schools Uniting Neighborhoods (SUN)

Portland, OR

2009 Department of Psychology, Reed College

Portland, OR

Research Assistant for Dr. Enriqueta Canseco-Gonzalez

2009 Department of Psychology, Reed College

Portland, OR

Teaching Assistant

REFERENCES

Dr. Virginia Richards – Professor of Cognitive Science, University of California, Irvine 949.824.2051

v.m.richards@uci.edu

Dr. Ramesh Srinivasan – Professor of Cognitive Science, University of California, Irvine 949.824.2696

r.srinivasan@uci.edu

Dr. Sridhar Kalluri – Director of Starkey Hearing Research Center, Starkey Hearing Technologies

<u>Sridhar_Kalluri@starkey.com</u>

Dr. Fan-Gang Zeng – Professor of Otolaryngology, University of California, Irvine 949.824.1539 fzeng@uci.edu

Dr. Curtis J. Billings – Research Investigator, National Center for Rehabilitative Auditory Research (NCRAR)

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