

**Kaylah Lalonde, Ph.D.**  
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## EDUCATION

2014 Ph.D., Speech and Hearing Sciences  
Indiana University  
minor: Psychological and Brain Sciences  
Dissertation: Developmental changes in audiovisual speech integration at varying levels of perceptual processing.

2009 B.A., Communication Sciences and Disorders  
Louisiana State University

## PROFESSIONAL APPOINTMENTS

2017-present Boys Town National Research Hospital,  
Center for Perception and Communication in Children  
Director, Audiovisual Speech Processing Lab

2014-2017 University of Washington, Department of Speech and Hearing Sciences  
Research Scientist / Postdoctoral Trainee

## RESEARCH SUPPORT

2022- May 2025 NIH – National Institute on Deafness and Other Communication Disorders  
Early Career Research Award R21 DC020544  
Role: Principal Investigator \$607,650  
*Factors influencing audiovisual speech benefit in children with hearing loss*

2022-June 2023 NIH – National Institute on Child Health and Development  
Research Project Grant Supplement R01 HD100439-02SI  
Role: Co-Investigator \$229,956  
*Effects of face masks on word learning in preschool-age children*

2019-2022 NIH – National Institute of General Medical Sciences  
Centers of Biomedical Research Excellence Grant P20 GM109023  
Role: Project Lead \$510,000  
*Development of Audiovisual Speech Enhancement*

2018-2019 NIH – National Institutes of Health – National Institute of General Medical Sciences  
Great Plains IDeA-CTR Pilot Grant U54 GM115458  
Role: Pilot project awardee \$25,000  
*Effects of Hearing Aid Compression on Temporal Cues in Audiovisual Speech*

2016-2017 NIH – National Institute on Deafness and Other Communication Disorders  
Research Service Award for Individual Postdoctoral Fellows F32 DC0015387  
Role: Principal Investigator \$46,400  
*The interaction of auditory and visual detection, discrimination, and recognition in infants' real-world listening environments*

2008-2009 Students Preparing for Academic and Research Careers (SPARC) Award  
Student Research Grant in Communication Disorders  
Role: Principal Investigator \$2,000  
*The effect of Dichotic Interaural Intensity Difference training on central auditory processing in children*

## PUBLICATIONS

### Peer-Reviewed Articles

- Lalonde, K.**, Walker, E. A., Leibold, L. J., & McCreery, R.W. (submitted). Predictors of susceptibility to noise and speech masking among school-age children with hearing loss or typical hearing.
- Gijbels, L., Yeatman, J.D., **Lalonde, K.**, Doering, P., & Lee, A. K. C. (submitted). Audiovisual speech perception benefits are stable from preschool through adolescence.
- Lalonde, K.** Buss, E., Miller, M. K., & Leibold, L. J. (2022). Face masks impact auditory and audiovisual consonant recognition in children with and without hearing loss. *Frontiers in Psychology*, 13, 874345. <https://www.frontiersin.org/articles/10.3389/fpsyg.2022.874345/full>
- Lalonde, K.** & Werner, L. A. (2021). Development of the mechanisms underlying audiovisual speech perception benefit. *Brain Sciences*, 11(1), 49. <https://www.mdpi.com/2076-3425/11/1/49/html>
- Gijbels, L. Yeatman, J. D., **Lalonde, K.**, & Lee, A. K. C. (2021). Audiovisual speech processing in relationship to phonological and vocabulary skills in first grade. *Journal of Speech, Language, and Hearing Research*, 64(12), 5022. <https://pubmed.ncbi.nlm.nih.gov/34735292/>
- Halverson D. M. (student) & **Lalonde, K.** (2020). Does visual speech provide release from perceptual masking in children? *Journal of the Acoustical Society fo America*, 148, EL221-EL226. <https://asa.scitation.org/doi/pdf/10.1121/10.0001867>
- Lalonde, K.** & McCreery R. W. (2020). Audiovisual speech enhancement in school-age hard of hearing children. *Ear and Hearing*, 41(4), 705-719. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7822589/>
- Holt, R. F., Beer, J., Pisoni, D. B., **Lalonde, K.** & Mulinaro, L. (2020). Family environment in children with hearing aids and cochlear implants: associations with spoken language, psychosocial functioning, and cognitive development. *Ear and Hearing*, 41(4), 762-774. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7190421/>
- Lalonde, K.** & Werner, L. A. (2019). Infants' and adults' detection and discrimination of auditory and audiovisual consonants in noise. *Journal of Speech, Language, and Hearing Research*, 62(10), 3860-3875. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7201336/>
- Lalonde, K.** (2019). Effects of natural variability in cross-modal correlations on audiovisual speech recognition benefit. *Proceedings of the International Conference of the Speech Communication Association, INTERSPEECH 2019, Graz, Austria*. [https://www.isca-speech.org/archive\\_v0/Interspeech\\_2019/pdfs/2931.pdf](https://www.isca-speech.org/archive_v0/Interspeech_2019/pdfs/2931.pdf)
- Lalonde, K.** & Werner, L. A. (2019). Perception of incongruent audiovisual English consonants. *PLOS ONE*, 14(3): e0213588. <https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0213588&type=printable>
- Lau, B.K., **Lalonde, K.**, Oster, M., Werner, L.A. (2017). Infant pitch perception: missing fundamental melody discrimination. *Journal of the Acoustical Society of America*, 141(1), 65-72. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6581289/pdf/JASMAN-000141-000065\\_1.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6581289/pdf/JASMAN-000141-000065_1.pdf)
- Lalonde, K.** & Holt, R. F. (2016). Audiovisual speech perception development at varying levels of perceptual processing. *Journal of the Acoustical Society of America*, 139(4), 1713-1723. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4826374/pdf/JASMAN-000139-001713\\_1.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4826374/pdf/JASMAN-000139-001713_1.pdf)
- Lalonde, K.** & Holt, R. F. (2015). Preschoolers benefit from visually-salient speech cues. *Journal of Speech, Language, and Hearing Research*, 58(1), 151-162. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4712850/pdf/JSLHR-58-135.pdf>
- Lalonde, K.** & Holt, R. F. (2014). Cognitive and linguistic sources of variance in 2-year-olds' speech-sound discrimination: a preliminary investigation. *Journal of Speech, Language, and Hearing Research*, 57(1), 308-326. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5600153/pdf/nihms899940.pdf>
- Holt, R. F. & **Lalonde, K.** (2012). Assessing toddlers' speech sound discrimination. *International Journal of Pediatric Otorhinolaryngology*, 76(5), 680-692.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5600153/pdf/nihms899940.pdf>

Holt, R. F., Beer, J., Kronenberger, W. G., Pisoni, D. B., & Lalonde, K. (2012). Contribution of family environment to pediatric cochlear implant users' speech and language outcomes: Some preliminary findings. *Journal of Speech, Language, and Hearing Research*, 55(3), 848-864.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3370076/>

## ACADEMIC AND PROFESSIONAL HONORS

2023	Invited to give Early Career Research Award Presentation 50 <sup>th</sup> Annual Meeting of the American Auditory Society
2018	Selected to attend 16 <sup>th</sup> Annual Lessons for Success Workshop, hosted by the American Speech-Language-Hearing Association
2016	Invited to participate in ARO Poster Blitz Session, Association for Research in Otolaryngology Midwinter Meeting
2014-2016	National Institute of Health Post-Doctoral Fellowship, Interdepartmental Training Grant, University of Washington
2013	Audiology/Hearing Sciences Research Travel Award (ARTA)
2013	National Institute of Health/American Auditory Society, Resident and Graduate Student Poster Session Awardee <i>Four-year-olds benefit from integration of auditory and visual speech cues</i>
2012	National Institute of Health/American Auditory Society Resident and Graduate Student Poster Session Awardee <i>Accounting for variability in normal-hearing toddlers' speech discrimination</i>
2011	National Institute of Health/American Auditory Society Resident and Graduate Student Poster Session Awardee <i>Modified Change/No-Change procedure for assessing toddlers' speech discrimination</i>
2011	Indiana University GPSO/TUGS Recognition Award, Indiana University Featured as Graduate Student of the Month
2010-2014	National Institute of Health Pre-Doctoral Fellowship, Interdepartmental Training Grant, Indiana University
2009-2014	Ronald E. McNair Graduate Fellowship, Indiana University
2009	Summa Cum Laude, Louisiana State University
2009	Upper-Division Honors Distinction, Louisiana State University
2008-2009	Louisiana State University Athletic Foundation Scholarship
2006-2009	Ronald E. McNair Post-Baccalaureate Achievement Research Scholars Program, Louisiana State University
2005-2009	Ben and Clare Thibodeaux Scholarship, Louisiana State University
2005-2009	Taylor Opportunity Program for Students, Louisiana State University

## PRESENTATIONS

### Peer-Reviewed Presentations and Posters

**Lalonde, K.** (2021, December). Predicting children's audiovisual speech recognition thresholds based on unimodal performance. 181<sup>st</sup> Meeting of the Acoustical Society of America, Seattle, WA.

Halverson, D. M. & **Lalonde, K.** (2021, December). How do children combine visual speech with other auditory grouping cues? 181<sup>st</sup> Meeting of the Acoustical Society of America, Seattle, WA.

- Gijbels, L., Yeatman, J.D., **Lalonde, K.**, & Lee, A. K. C. (2021, December). Children's age matters, but not for audiovisual speech enhancement. 181<sup>st</sup> Meeting of the Acoustical Society of America, Seattle, WA.
- Leibold, L., Porter, H., **Lalonde, K.**, Merchant, G. R., Miller, M. K., & Buss, E. (2021, June). Remote collection of speech recognition data: Considerations for testing children. 180<sup>th</sup> Meeting of the Acoustical Society of America.
- Lalonde, K., Buss E., Miller, M. K., & Leibold, L. J. (2021, March). Effects of face masks on auditory and audiovisual speech perception in children with and without hearing loss. *A Sound Foundation through Early Amplification, 8<sup>th</sup> International Pediatric Audiology Conference*.
- Wciorka, A. L., **Lalonde, K. L.**, & Chatterjee, M. (2021, March). Visual cues to perception of intonation. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.**, Leibold, L. J., Buss, E., Miller, M. K. (2021, February). Audiovisual speech perception in children: hearing loss and face masks. Washington University Aging and Development Seminar, St. Louis, MO.
- Halverson, D. & **Lalonde, K.** (2020, March). Does visual speech provide release from perceptual masking in children? Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.** & Halverson, D. (2020, January). Examining listeners' use of cross-modal temporal cues in audiovisual speech perception. Association for Research in Otolaryngology Midwinter Meeting, San José, CA.
- Lalonde, K.**, McCreery, R., & Walker, E. (2020, January). Predicting masked speech recognition in children with and without hearing loss: noise and two-talker maskers. Association for Research in Otolaryngology Midwinter Meeting, San José, CA.
- Lalonde, K.** (2019, October). Effects of natural variability in cross-modal temporal correlations on audiovisual speech recognition benefit. Greater Plains IDeA-CTR annual scientific meeting, Omaha, NE.
- Lalonde, K.** (2019, September). Effects of natural variability in cross-modal temporal correlations on audiovisual speech recognition benefit. INTERSPEECH 2019, Graz, Austria.
- Lalonde, K.** & McCreery, R. (2019, March). Audiovisual speech enhancement among school-age, hard-of-hearing children. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.** (2018, October). Effects of hearing aid compression on temporal cues in audiovisual speech. Greater Plains IDeA-CTR annual scientific meeting, Omaha, NE.
- Lalonde, K.** & Werner, L. A. (2018, May). Audiovisual speech detection benefits: a comparison across psychophysical approaches. Spring meeting of the Acoustical Society of America, Minneapolis, MN.
- Lalonde, K.** & Werner, L. A. (2018, March). Infants use visual cues to enhance speech perception in noise. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.** & Werner, L. A. (2016, December). Infant auditory and audiovisual speech discrimination. Fifth Joint meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI.
- Lalonde, K.** & Werner, L. A. (2016, February). Audiovisual speech perception at varying levels of perceptual processing. Association for Research in Otolaryngology Midwinter Meeting, San Diego, CA.
- Lalonde, K.** & Holt, R. F. (2014, October). Audiovisual speech integration development at varying levels of perceptual processing. Fall meeting of the Acoustical Society of America, Indianapolis, IN.
- Lalonde, K.** & Holt, R. F. (2014, March). How does level of perceptual processing affect audiovisual integration? Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.** & Holt, R. F. (2013, November). Benefit from integration of auditory and visual speech cues in preschoolers. Annual meeting of the American Speech-Language- Hearing Association, Chicago, IL.
- Holt, R. F., Beer, J., Kronenberger, W., Pisoni, D., Smith, L., & **Lalonde, K.** (2013, October) Family matters: The influence of family dynamics on spoken language, social, and cognitive development in children with sensory aids. CI 2013 Symposium, Washington, D. C.

- Lalonde, K.** & Holt, R. F. (2013, March). Four-year-olds benefit from integration of auditory and visual speech cues. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.** & Holt, R. F. (2012, June). Identifying sources of variance in normal-hearing two-year-olds' speech discrimination. NHS 2012– Beyond Newborn Hearing Screening: Infant and Childhood Hearing in Science and Clinical Practice, Cernobbio, Italy.
- Lalonde, K.** & Humes, L. E. (2012, June). Factors influencing informational and energetic masking in older adults. Second International Conference on Adult Hearing Screening, Cernobbio, Italy.
- Lalonde, K.** & Holt, R. F. (2012, March). Accounting for variability in normal-hearing toddlers' speech-sound discrimination. Women in Science Research Conference, Bloomington, IN.
- Lalonde, K.** & Holt, R. F. (2012, March). Accounting for variability in normal-hearing toddlers' speech discrimination sensitivity. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Holt, R. F., Beer, J., **Lalonde, K.**, Kronenberger, B., & Pisoni, D. B. (2011, July) Family environment of pediatric cochlear implant recipients and its potential role in intervention. Thirteenth Symposium on Cochlear Implants in Children (CI 2011), Chicago, IL.
- Lalonde, K.** & Holt, R. F. (2011, March). Modified Change/No-Change procedure for assessing toddlers' speech discrimination. Annual meeting of the American Auditory Society, Scottsdale, AZ.
- Lalonde, K.**, Barker, B. A., & Jumonville, W. J. (2008, November). Effect of Dichotic Interaural Intensity Difference training on children's (C)APD. Annual meeting of the American Speech-Language-Hearing Association, Chicago, IL.

### **Other Professional Presentations**

- Lalonde, K.** (2020, November). Audiovisual speech perception: mechanisms, development, and hearing loss. Indiana University, Bloomington, IN.
- Lalonde, K.** (2019). Audiovisual speech perception benefit: mechanisms and development. Boys Town National Research Hospital: Listening, Language, and Learning Lecture, Omaha, NE.
- Lalonde, K.** (2016, May). Underlying mechanisms in infant audiovisual speech perception. University of Washington, Auditory Neuroscience Training Grant Retreat, Seattle, WA.
- Lalonde, K.** (2015, May). Audiovisual speech perception development. University of Washington, Auditory Neuroscience Training Grant Retreat, Seattle, WA.
- Lalonde, K.** (2014, June). Developmental changes in audiovisual speech perception at varying levels of perceptual processing. Indiana University, Speech and Hearing Sciences, Bloomington, IN.
- Lalonde, K.** & Holt, R. F. (2012, March). Accounting for variability in normal-hearing two-year-olds' speech-sound discrimination. Indiana University, Speech and Hearing Sciences Colloquium Series, Bloomington, IN.
- Lalonde, K.** & Holt, R. F. (2011, January). Modified Change/No-Change procedure for assessing speech discrimination in toddlers. Indiana University, Speech and Hearing Sciences Colloquium Series, Bloomington, IN.
- Lalonde, K.** & Holt, R. F. (2010, June). A method for measuring speech discrimination in toddlers. Speech Research Lab, Indiana University, Bloomington, IN.
- Lalonde, K.** (2007, March). Effect of Dichotic Interaural Intensity Difference training on children's (C)APD. Louisiana State University, Department of Communication Sciences & Disorders, Baton Rouge, LA.

### **TEACHING EXPERIENCE**

#### **Boys Town National Research Hospital (2017 – present)**

- Summer 2020      Co-mentor, audiology (Au.D.) student's summer research project  
National Institute of Health – NIDCD National Research Service Award,  
Short-Term Institutional Research Training Grant (T35)

Kaylah Lalonde – C. V.

- Summer 2019 Mentor, audiology (Au.D.) student's summer research project  
National Institute of Health – NIDCD National Research Service Award,  
Short-Term Institutional Research Training Grant (T35)
- 2017 – present Annual Responsible Conduct of Research course lecture on Mentoring
- 2018 – present Annual lecture on plotting data for Short-Term Institutional Research Training Grant  
(T35) students

**University of Washington (2014-present)**

- 2022 Member, Graduate
- Summer 2016 Instructor for undergraduate course: The Nature of Sound
- Spring 2015 Guest lecturer for undergraduate course: Hearing Sciences  
topic: Speech Perception

**Indiana University (2009-2014)**

- Summer 2014 Instructor for undergraduate course: Introduction to Phonetics  
for Speech and Hearing Sciences
- Fall 2013 Guest lecturer for undergraduate course: Speech Anatomy and Physiology  
– topic: Hearing Anatomy  
– topic: Hearing Physiology
- Spring 2013 Guest lecturer for undergraduate course: Auditory Rehabilitation  
– topic: Auditory Processing Disorders
- Summer 2012 Co-mentor for summer medical student research trainee project
- Spring 2012 Co-teacher for graduate level course: Introduction to Psychoacoustics
- 2011-2012 Co-mentor for undergraduate honors student thesis

**Louisiana State University (2005-2009)**

- Spring 2009 Guest Lecture for graduate course: Spoken Language Processing  
– topic: Auditory Processing Disorders

**PROFESSIONAL ACTIVITIES**

**National and International**

Editorial Board Member 2018-present  
*Journal of Speech, Language, and Hearing Research*

Ad Hoc Reviewer  
*Ear and Hearing*  
*Journal of Child Language*  
*Infancy*  
*Journal of Special Education and Rehabilitation*  
*Journal of the Acoustical Society of America*  
*International Journal of Audiology*  
*Hearing Research*  
*Brain Sciences*  
*Applied Psycholinguistics*  
*Psychological Science*

ASHA Foundation Scholarship application review committee 2020

ASHA’s Students Preparing for Academic and Research Careers (SPARC) Award review committee 2020

Panel Moderator: “Speech Communication: Realistic factors and measurements” Association for Research in Otorhinolaryngology Midwinter Meeting 2021

**University**

Committee Member 2013  
 Indiana University Graduate and Professional Student Organization  
 Faculty Mentor Award Committee

Representative 2012-2013  
 Indiana University Graduate and Professional Student Organization

**Departmental**

Co-President 2010-2012  
 Indiana University SPHS Ph.D. Organization

Member 2009-2014  
 Indiana University SPHS Ph.D. Organization

Vice President & Senior Liaison 2008-2009  
 National Student Speech-Language-Hearing Association, Louisiana State University Chapter

**MEMBERSHIPS**

*American Auditory Society*  
*Acoustical Society of America*  
*American Speech-Language-Hearing Association*