

RACHAEL FRUSH HOLT

The Ohio State University
Department of Speech and Hearing Science
1070 Carmack Road
110 Pressey Hall
Columbus, OH 43210

EDUCATION

B.S.	University of Minnesota Speech and Hearing Sciences Psychology, minor	1996
M.A.	University of Minnesota Communication Disorders, emphasis in Audiology	1999
Ph.D.	University of Minnesota Communication Disorders, emphasis in Hearing Science	2003

PROFESSIONAL EXPERIENCE

University of Minnesota, Department of Communication Disorders		
Research Assistant		1997-2003
Teaching Assistant		2000-2002
Clinical Supervisor in Audiology		2001-2002
Mayo Clinic – Rochester, Department of Otolaryngology, Audiology Section		
Clinical Fellow in Audiology		1999-2000
Indiana University School of Medicine, Department of Otolaryngology Head and Neck Surgery, DeVault Otologic Research Laboratory		
NIH Postdoctoral Research Fellow		2003-2005
Indiana University		
Assistant to Associate Professor, Department of Speech and Hearing Sciences		2005-2013
Associate Member, Cognitive Science Program Faculty		2009-2013
Adjunct Assistant Professor, Department of Otolaryngology-Head and Neck Surgery, Indiana University School of Medicine		2011-2014
Adjunct Associate Professor, Department of Speech and Hearing Sciences		2013-2014
The Ohio State University		
Associate Professor, Department of Speech and Hearing Science		2013-present
Member, Institute for Population Research		2013-present
Member, Center for Cognitive and Brain Sciences		2017-present
Advancement Director, Language Sciences Research Laboratory		2017-present

LICENSES AND CERTIFICATIONS

Certificate of Clinical Competence in Audiology	since 2000
Title Registered Audiologist with the Minnesota Department of Health	2001-2004
Hearing Instrument Dispenser Certification in Minnesota	2001-2004

RESEARCH SUPPORT

American Speech-Language-Hearing Foundation Student Research Grant in Audiology Project title: "Non-sensory factors in children's speech perception" Role: Principal Investigator Award amount: \$2,000	2002
National Institutes of Health – NIDCD Research Service Award for Individual Predoctoral Fellows Grant Number 1 F31 DC05919-01 Project title: "Non-sensory factors in children's speech perception" Role: Principal Investigator Award amount: \$27,120	2002-2003
American Speech-Language-Hearing Foundation Research Grant for New Investigators Project title: "A test of audiovisual integration for children with sensory aids" Role: Principal Investigator Award amount: \$5,000	2005
American Hearing Research Foundation Project title: "Assessing audiovisual sentence recognition in children with sensory aids" Role: Principal Investigator Award amount: \$19,904	2005-2006
Indiana University Summer Faculty Fellowship Project title: "Developing a speech discrimination procedure for clinical pediatric populations" Role: Principal Investigator Award amount: \$8,000	2006
American Speech-Language-Hearing Foundation Research Grant for New Investigators (Carolyn Richie, PI) Project title: "The contribution of visual cues for vowels and consonants to speech recognition by listeners with hearing loss" Role: Consultant Award amount: \$5,000	2006

National Institutes of Health – NIDCD	2008-2014
Grant Number R01 DC009581 (David Pisoni, PI)	
Project title: “Neurocognitive processes in deaf children with cochlear implants”	
Role: Consultant	Award amount: \$3,098,452
Indiana University	2009-2010
Faculty Research Support Program	
Project title: “Toddlers’ speech sound discrimination: A potential diagnostic predictor”	
Role: Principal Investigator	Award amount: \$44,745
National Institutes of Health – NIDCD	2009-2012
Grant Number R21 DC010027 (Tessa Bent, PI)	
Project title: “Children’s perception of foreign-accented speech”	
Role: Consultant	Award amount: \$303,942
Indiana University	2009-2010
Faculty Research Support Program (Siang Lee Hong, PI)	
Project title: “Hearing loss, working memory, and visuomotor development in children”	
Role: Co-investigator	Award amount: \$37,574
National Institutes of Health – CHHD	2010-2013
Grant Number T32 HD007475 (Linda Smith, PD)	
Project title: “Training Program in Integrative Developmental Processes”	
Role: Core Faculty	Award amount: \$1,053,971 (Y1-Y3)
Indiana University	2012-2013
Indiana University Collaborative Research Grant	
Project title: “Family Environment and its Role in Outcomes in School-Age Children with Hearing Loss”	
Role: Principal Investigator	Award amount: \$67,064
National Science Foundation	2015-2018
Grant Number 1461039 (Laura Wagner & Kathryn Campbell-Kibler, PIs)	
Project title: “REU Site: The Science of Language and the Language of Science”	
Role: Faculty Mentor	Award amount: \$353,750
Indiana and Purdue Universities	2016-2017
Indiana Clinical and Translational Science Award (funded by the NIH)	
Project title: “Executive Functioning in Children and Adolescents with Mild to Severe Hearing Loss: A Pilot Study” (William Kronenberger, PI)	
Role: Co-Investigator	Award amount: \$22,957
National Institutes of Health – NIDCD	8/1/2016-7/31/2021
Grant Number R01 DC014956 (David Pisoni, Co-PI)	
Project title: “Family Processes in Developmental Outcomes of Pediatric Hearing Loss”	
Role: Principal Investigator	Total Direct Costs: \$2,554,843

National Institutes of Health – NIDCD	3/1/2017-2/28/2020
Grant Number R21 DC06134 (Irina Castellanos, PI)	
Project title: “Psychosocial Outcomes in Deaf Children with Cochlear Implants”	
Role: Consultant	Total Direct Costs: \$300,000
Oberkötter Foundation	8/1/2017-7/31/2018
Community Collaboration – Planning Grant (Derek Houston, PD)	
Project title: “Children’s Hearing and Language Development Resource Network (CHLDRN) of Ohio”	
Role: OSU SHS Representative	Award amount: \$98,937
National Institutes of Health – NIDCD	Dates pending
Grant Number 1R56 DC015492 (Tina Grieco-Calub, PI)	
Project title: “Effects of hearing experience on audiovisual speech perception in children”	
Role: Consultant	Total Direct Costs: Pending

ACADEMIC AND PROFESSIONAL HONORS

Phi Beta Kappa Honor Society	
Member	1996
American Academy of Audiology	
Student Research Forum Award Winner	2002
Project title: “Evaluating the benefit of directional patterns in hearing aids”	
Minnesota Speech-Language-Hearing Foundation	
Scholarship Recipient	2002
Association for Research in Otolaryngology Audiologist Travel Award	2005
<i>Nature</i> featured a story on my research on the importance of early cochlear implantation: Peplow, M. (2005). Language learning declines after second year of life. <i>Nature</i> . [http://www.nature.com/news/2005/050516/full/news050516-1.html]	2005
American Speech Language Hearing Association <i>Lessons for Success Conference: Developing the Emerging Scientist</i> Fellowship	2008
<i>ASHA Leader</i> featured my research on the cochlear implantation in infants younger than 12 months of age: Early Cochlear Implantation, <i>ASHA Leader</i> (September 23, 2008).	2008
Trustees Teaching Award, Indiana University	2009
Paper selected for dissemination to the media through the World Wide Press Room, Acoustical Society of America, Portland, OR. Lay-language paper title: <i>Keepin’ it real: The importance of maintaining the natural color spectrum of video recordings</i>	2009
<i>ASHA Leader</i> featured my research on the role of family environment in pediatric cochlear implant outcomes: Development in Children with CIs. <i>ASHA Leader</i> (March 13, 2012).	2012
Provost Travel Award, Indiana University	2013
International Travel Grant (\$2500), Ohio State University	2017

STUDENT HONORS

Aileen Wong

American Speech-Language-Hearing Association 2008

Minority Student Leadership Program Fellowship

Conference registration waiver for quality of student paper submission

Say that again: The effects of repetition on speech discrimination

Kaylah Lalonde

Indiana University GPSO/TUGS Recognition Award 2010

Featured as Graduate Student of the Month

Kaylah Lalonde

National Institutes of Health/American Auditory Society 2011

Resident and Graduate Student Poster Session Awardee

Modified Change/No-Change procedure for assessing toddlers' speech discrimination

Kierra Villines

Acoustical Society of America 2011

Undergraduate Research Exposition Travel Awardee

The influence of talker and accent variability on spoken word identification and discrimination

Kaylah Lalonde

National Institutes of Health/American Auditory Society 2012

Resident and Graduate Student Poster Session Awardee

Accounting for variability in normal-hearing toddlers' speech discrimination

Lindsay Smith

Indiana University Chuck Watson Thesis Award 2012

Assessing toddlers' audiovisual speech perception

Kaylah Lalonde

National Institutes of Health/American Auditory Society 2013

Resident and Graduate Student Poster Session Awardee

Four-year-olds Benefit from Integration of Auditory and Visual Speech Cues

Kaylah Lalonde

American Speech-Language-Hearing Association 2013

Audiology/Hearing Science Research Travel Award

Benefit from Integration of Auditory and Visual Speech Cues in Preschoolers

Sarah Mabie
The Ohio State University 2014
Arts and Sciences Honors Committee Undergraduate Research Scholarship
*Individual Differences in Children's Perception of Foreign-Accented Speech:
The Role of Temperament*

Angela Hill
The Ohio State University 2014
Arts and Sciences Honors Committee Undergraduate Research Scholarship
*Individual Differences in Children's Perception of Foreign-Accented Speech:
The Role of Executive Function*

Angela Hill
The Ohio State University 2014
Undergraduate Research Scholar Award
*Individual Differences in Children's Perception of Foreign-Accented Speech:
The Role of Executive Function*

Sarah Mabie
The Ohio State University 2015
Weisenberger Undergraduate Research Writing Award
*Individual Differences in Children's Perception of Foreign-Accented Speech:
The Role of Temperament*

Katherine Miller
The Ohio State University 2017
Center for Cognitive and Brain Sciences Summer Graduate Fellowship
Children's Perception of Accented Speech

PUBLICATIONS

Refereed Articles

Holt, R. F., & Kirk, K. I. (2005). Speech and language development in cognitively delayed children with cochlear implants. *Ear and Hearing, 26*, 132-148.

Holt, R. F., Kirk, K. I., Eisenberg, L. S., Martinez, A. S., & Campbell, W. (2005). Spoken word recognition development in children with residual hearing using cochlear implants and hearing aids in opposite ears. *Ear and Hearing, 26* (Suppl.), 82S-91S.

Holt, R. F., & Carney, A. E. (2005). Multiple looks in speech sound discrimination in adults. *Journal of Speech, Language, and Hearing Research, 48*, 922-943.

Holt, R. F., & Carney, A. E. (2007). Developmental effects of multiple looks in speech sound discrimination. *Journal of Speech, Language, and Hearing Research, 50*, 1404-1424.

- Kirk, K. I., Hay-McCutcheon, M. J., **Holt, R. F.**, Gao, S., Qi, R., & Gehrlein, B. L. (2007). Audiovisual spoken word recognition by children with cochlear implants. *Audiological Medicine*, 5, 250-261.
- Holt, R. F.**, & Svirsky, M. A. (2008). An exploratory look at pediatric cochlear implantation: Is earliest always best? *Ear and Hearing*, 29, 492-511. doi: 10.1097/AUD.0b013e31816c409f
- Holt, R. F.**, Kirk, K. I., & Hay-McCutcheon, M. (2011). Assessing multimodal spoken word-in-sentence recognition in children with normal hearing and children with cochlear implants. *Journal of Speech, Language, and Hearing Research*, 54, 632-657.
- Holt, R. F.** (2011). Enhancing speech discrimination through stimulus repetition. *Journal of Speech, Language, and Hearing Research*, 54, 1431-1447.
- Holt, R. F.**, & Lalonde, K. (2012). Assessing toddlers' speech-sound discrimination. *International Journal of Pediatric Otorhinolaryngology*, 76, 680-692. doi:10.1044/1092-4388
- Beer, J., Harris, M. S., Kronenberger, W. G., **Holt, R. F.**, & Pisoni, D. B. (2012). Auditory skills, language, and adaptive behavior of children with cochlear implants and additional disabilities. *International Journal of Audiology*, 51, 491-498.
- 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, 848-864. doi: 10.1044/1092-4388
- Holt, R. F.**, Beer, J., Kronenberger, W. G., & Pisoni, D. B. (2013). Developmental effects of family environment on outcomes in pediatric cochlear implant recipients. *Otology and Neurotology*, 34, 388-395.
- Beer, J., **Holt, R. F.**, & Harris, M. S. (2013). Cochlear implantation in children with additional diagnoses: Current trends and outcomes. *Otorhinolaryngologia: Cutting edge Otolaryngology Special Issue*, 63, 1-16.
- Bent, T., & **Holt, R. F.** (2013). The influence of talker and foreign-accent variability on spoken word identification. *Journal of the Acoustical Society of America*, 133, 1677-1686. doi: 10.1121/1.4776212
- Lalonde, K., & **Holt, R. F.** (2014). Cognitive and linguistic sources of variance in 2-year-olds' speech-sound discrimination. *Journal of Speech, Language, and Hearing Research*, 57, 308-326. doi:10.1044/1092-4388
- Lalonde, K., & **Holt, R. F.** (2015). Preschoolers benefit from visually salient speech cues. *Journal of Speech, Language, and Hearing Research*, 58, 135-150. doi:10.1044/2014

Phan, J., Houston, D. M., Ruffin, C., Ting, J., & **Holt, R. F.** (2016). Factors affecting speech discrimination in children with cochlear implants: Evidence from early-implanted infants. *Journal of the American Academy of Audiology*, 27, 480-488.

Lalonde, K., & **Holt, R. F.** (2016). Audiovisual speech perception development at varying levels of perceptual processing. *Journal of the Acoustical Society of America*, 139, 1713-1723. doi: 10.1121/1.4945590

Holt, R. F. & Bent, T. (2017). Children's use of semantic context in perception of foreign-accented speech. *Journal of Speech, Language, and Hearing Research*, 60, 223-230. doi: 10.1044/2016

Bent, T., & **Holt, R. F.** (2017). Representation of speech variability. *Wiley Interdisciplinary Reviews: Cognitive Science*, 1-14. doi: 10.1002/wcs.1434. [Invited]

Youngdahl, C. L., Healy, E. W., Yoho, S. E., Apoux, F., & **Holt, R. F.** (in press). The effect of remote masking on the reception of speech by young school-aged children. *Journal of Speech, Language, and Hearing Research*.

Bent, T., & **Holt, R. F.** (under second review). Shhh... I need quiet! Children's understanding of American, British, and Japanese Speakers. *Language and Speech*.

Holt, R. F., Beer, J., Kronenberger, W. G., Pisoni, D. B., Lalonde, K., & Smith, L. (in prep). Family dynamics influence spoken language, social and cognitive development in children with hearing aids and cochlear implants.

Book Chapters (Refereed)

Bergeson, T. R., & **Holt, R. F.** (2017). Assisted music listening in hearing impairment. In R. Ashley & R. Timmers (Eds.), *The Routledge Companion to Companion to Music Cognition* (pp. 237-248). New York, NY: Routledge. [Invited]

Non-refereed Articles/Proceedings

Woods, W. S., **Frush, R. A.**, & Van Tasell, D. J. (1999). "Preference space" for parameters of two-channel speech compression. *Proceedings of the IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, New York, Oct. 17-20*.

Holt, R. F., Svirsky, M.A., Neuburger, H., & Miyamoto, R. T. (2004). Age at implantation and communicative outcome in pediatric cochlear implant users: Is younger always better? *International Congress Series 1273: Proceedings of the VIII International Cochlear Implant Conference, Indianapolis, May 10-13* (pp. 368-371). Amsterdam: Elsevier.

Kirk, K. I., & **Holt, R. F.** (2006). Cochlear implantation in children with cognitive delays. *Sound Waves: Advanced Bionics Newsletter for Professionals*, 3, 1-4.

Kirk, K. I., Firszt, J. B., Hood, L. J., & **Holt, R. F.** (2006, Nov. 28). New directions in pediatric cochlear implantation: Effects on candidacy. *The ASHA Leader*, 11(16), 6-7, 14-15.

PRESENTATIONS AND POSTERS SESSIONS

Peer-reviewed Presentations and Posters

Van Tasell, D. J., Ewert, C. M., **Frush, R.**, & Woods, W. S. (1998, August). *Two channel compressed speech in noise: Interaction of release time and compression ratio*. Poster session presented at the biannual meeting, Issues in Advanced Hearing Aid Research, Lake Arrowhead, CA.

Gregan, M. J., Trine, T. D., Van Tasell, D. J., Nelson, P. B., Recker, K., & **Frush, R.** (2002, April). *Advanced signal processing: What we learned from field trials*. Paper presented at the annual meeting of the American Academy of Audiology, Philadelphia, PA.

Frush, R., Nelson, P., & Van Tasell, D. J. (2002, April). *Evaluating the benefit of directional patterns in hearing aids*. Paper presented at the annual meeting of the American Academy of Audiology, Philadelphia, PA.

Holt, R. A. F., & Carney, A. E. (2002, November). *The effects of multiple looks on speech perception in children*. Poster session presented at the annual meeting of the American Speech-Language-Hearing Association conference, Atlanta, GA.

Svirsky, M. A., **Holt, R. F.**, Neuburger, H. & Teoh, S-W. (2003, November). *Outcomes of pediatric cochlear implantation as a function of age at implant*. Paper presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL.

Holt, R. F., & Kirk, K. I. (2004, April). *Speech and language development in children with cochlear implants and cognitive delays*. Paper presented at the annual meeting of the American Academy of Audiology, Salt Lake City, UT.

Svirsky, M. A., **Holt, R. F.**, & Neuburger, H. (2004, May). *Age at implantation and communicative outcome in pediatric cochlear implant users: Is younger always better?* Paper presented at the VIII International Cochlear Implant Conference, Indianapolis, IN.

Kirk, K. I., Eisenberg, L. S., **Holt, R. F.**, Martinez, A. S., Ying, E., Campbell, W., Collison, E., & Miyamoto, R. T. (2004, May). *Combined cochlear implant and hearing aid use in children with preimplant residual hearing: Longitudinal effects*. Paper presented at the VIII International Cochlear Implant Conference, Indianapolis, IN.

Holt, R. F., Kirk, K. I., Davis, R. A. O., & Miyamoto, R. T. (2004, May). *Speech and language development in implanted children with developmental delays*. Paper presented at the VIII International Cochlear Implant Conference, Indianapolis, IN.

Svirsky, M. A., **Holt, R. F.**, Neuburger, H., & Teoh, S-W. (2004, May). *Language development in cochlear implant users: Is the glass half-full or half-empty?* Paper presented at the 7th European Symposium on Paediatric Cochlear Implantation, Geneva, Switzerland.

Holt, R. F., & Carney, A. E. (2004, May). *Non-sensory factors in speech perception*. Poster session presented at the spring meeting of the Acoustical Society of America, New York, NY.

Holt, R. F., & Kirk, K. I. (2004, November). *Speech and language development in cognitively delayed children with cochlear implants*. Paper presented at the annual meeting of the American Speech-Language-Hearing Association, Philadelphia, PA.

Holt, R. F., & Svirsky, M. A. (2005, February). *Communication outcomes as a function of age at cochlear implantation in congenitally deaf infants and children: Is younger always better?* Poster session presented at the midwinter meeting of the Association for Research in Otolaryngology, New Orleans, LA.

Kirk, K. I., **Holt, R. F.**, Ying, E., Henning, S. C., & Miyamoto, R. T. (2005, March). *Effects of age at implantation on spoken word recognition in children entering elementary school*. Paper presented at the 10th Symposium on Cochlear Implants in Children, Dallas, TX.

Svirsky, M. A., & **Holt, R. F.** (2005, March). *Speech perception and language in congenitally deaf children implanted in the first year of life*. Paper presented at the 10th Symposium on Cochlear Implants in Children, Dallas, TX.

Holt, R. F., & Kirk, K. I. (2005, March). *Binaural acoustic-electric stimulation in children with residual hearing: Communication outcomes*. Paper presented at the 10th Symposium on Cochlear Implants in Children, Dallas, TX.

Holt, R. F., Kirk, K. I., Eisenberg, L. S., Martinez, A. S., & Campbell, W. (2005, March). *Binaural acoustic-electric stimulation in children with residual hearing: Communicative outcomes*. Paper presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Svirsky, M. A., & **Holt, R. F.** (2005, May). *Language acquisition after cochlear implantation of congenitally deaf children: Effect of age at implantation*. Paper presented at the spring meeting of the Acoustical Society of America, Vancouver, British Columbia, Canada.

Holt, R. F., Kirk, K. I., Pisoni, D. B., Burckhartzmeyer, L., & Lin, A. (2005, October). *Lexical and context effects in children's audiovisual speech recognition*. Poster session presented at the fall meeting of the Acoustical Society of America, Minneapolis, MN.

Kirk, K. I., Henning, S., **Holt, R. F.**, & Ying, E. (2005, November). *Effects of early cochlear implantation in six-year-old children*. Paper presented at the annual meeting of the American-Speech-Language-Hearing Association, San Diego, CA.

Holt, R. F., & Kirk, K. I. (2005, November). *Developing audiovisual sentence test materials for children with sensory aids*. Paper presented at the annual meeting of the American-Speech-Language-Hearing Association, San Diego, CA.

Ting, J. Y., **Holt, R. F.**, Smith, J. P., Benson, M. K., Houston, D. M., & Miyamoto, R. T. (2007, April). *Assessing speech discrimination in individual infants: Effects of hearing loss and contrast difficulty*. Paper presented at the 11th International Conference on Cochlear Implants in Children, Charlotte, NC.

Holt, R. F., Kirk, K. I. & Howell, S. (2007, April). *The Audiovisual Lexical Neighborhood Sentence Test: Test development and preliminary results from pediatric cochlear implant recipients*. Paper presented at the 11th International Conference on Cochlear Implants in Children, Charlotte, NC.

Holt, R. F., Kirk, K. I., Hay-McCutcheon, M. J., & Howell, S. (2008, June). *Audiovisual integration of speech by children with cochlear implants*. Paper presented at the 2008 Newborn Hearing Screening Conference, Cernobbio, Italy.

Wong, A., Russell, K., & **Holt, R. F.** (2008, November). *Say that again: The effects of repetition on speech discrimination*. Poster session presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL.

Holt, R. F., Bent, T., & Hernandez, L. (2009, May). *Color effects in audiovisual spoken word recognition*. Poster session presented at the spring meeting of the Acoustical Society of America, Portland, OR.

Lalonde, K., & **Holt, R. F.** (2011, March). *Modified Change/No-Change procedure for assessing toddlers' speech discrimination*. Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Holt, R. F., Beer, J., Lalonde, K., Kronenberger, W. G., & Pisoni, D. B. (2011, July). *Family Environment of Pediatric Cochlear Implant Recipients and its Potential Role in Intervention*. Paper presented at the 13th Symposium on Cochlear Implants in Children (CI2011), Chicago, IL.

Beer, J., Harris, M., Kronenberger, W. G., **Holt, R. F.**, & Pisoni, D. B. (2011, July). *Outcomes after cochlear implantation in children with additional disabilities*. Poster session presented at the 13th Symposium on Cochlear Implants in Children (CI2011), Chicago, IL.

Holt, R. F., Beer, J., Quigley, T., & Pisoni, D. B. (2011, October). *Executive Function Prior to Cochlear Implantation in Younger and Older Post-Lingually Deaf Adults*. Poster session presented at the 2011 Aging and Speech Communication conference, Bloomington, IN.

Villines, K., Bent, T., & **Holt, R. F.** (2011, November). *The influence of talker and accent variability on spoken word identification and discrimination*. Poster session presented at the fall meeting of the Acoustical Society of America, San Diego, CA.

Lalonde, K., & **Holt, R. F.** (2012, March). *Accounting for variability in normal-hearing toddlers speech discrimination*. Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Lalonde, K., & **Holt, R. F.** (2012, June). *Identifying sources of variability in normal-hearing two-year-olds' speech discrimination*. Poster session presented at the 2012 Newborn Hearing Screening Conference, Cernobbio, Italy.

Holt, R. F., Beer, J., Kronenberger, W., & Pisoni, D. B. (2013, March). *Family influences on social and cognitive skills in hearing-impaired children*. Paper to be presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Lalonde, K., & **Holt, R. F.** (2013, March). *Four-year-olds benefit from integration of auditory and visual speech cues*. Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

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*. Poster session presented at the Cochlear Implant 2013 Symposium, Washington, DC.

Bergeson, T., Beer, J., & **Holt, R. F.** (2013, October). *The role of family language environment in outcomes in school-age children with cochlear implants*. Poster session presented at the Cochlear Implant 2013 Symposium, Washington, DC.

Lalonde, K., & **Holt, R. F.** (2013, November). *Benefit from integration of auditory and visual speech cues in preschoolers*. Paper presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL.

Lalonde, K., & **Holt, R. F.** (2014, March). *How does level of perceptual processing affect audiovisual integration?* Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Lalonde, K., & **Holt, R. F.** (2014, October). *Audiovisual speech integration development at varying levels of perceptual processing*. Poster session presented at the fall meeting of the Acoustical Society of America, Indianapolis, IN.

Mabie, S., **Holt, R. F.**, & Bent, T. (2015, March). *Children's perception of foreign-accented speech: The role of temperament*. Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Hill, A., **Holt, R. F.**, & Bent, T. (2015, March). *Children's perception of foreign-accented speech: The role of executive function*. Poster session presented at the annual meeting of the American Auditory Society, Scottsdale, AZ.

Youngdahl, C., Yoho, S., **Holt, R. F.**, Apoux, F., & Healy, E. (2015, May). *Effect of spectrally-remote maskers on sentence recognition by adults and children*. Poster session presented at the spring meeting of the Acoustical Society of America, Pittsburgh, PA.

Youngdahl, C., Yoho, S., Apoux, F., **Holt, R. F.**, & Healy, E. (2015, November). *Effect of spectrally-remote noise on sentence recognition in children*. Poster session presented at the annual meeting of the American Speech-Language-Hearing Association, Denver, CO.

Bent, T., **Holt, R. F.**, Wilcox, T., Mabile, S., & Neczypor, L. (2016, May). *Children's perception of native dialects and nonnative accents*. Poster session presented at the spring meeting of the Acoustical Society of America, Salt Lake City, UT.

Youngdahl, C., Yoho, S., **Holt, R. F.**, Apoux, F., & Healy, E. (2016, May). *Effects of interleaved noise on speech recognition in children*. Poster session presented at the spring meeting of the Acoustical Society of America, Salt Lake City, UT.

Hager, A., & **Holt, R. F.** (2017, February). *Pragmatic Skills in School-Aged Children with Hearing Loss*. Poster session presented at the 2017 Ohio Audiology Conference, Columbus, OH.

Miller, K. E., **Holt, R. F.**, Bent, T., & Blank, A. (2017, June). *Development of Semantic Context Facilitation for Nonnative-Accented Speech*. Poster session presented at the spring meeting of the Acoustical Society of America, Boston, MA.

Wagner, L., Clopper, C., McCullough, E., **Holt, R. F.**, Durrant, S., & Evans, B. (2017, July). *Children's Understanding and Use of Sociolinguistic Variation in Language Acquisition*. Symposium presented at the 14th International Congress for the Study of Child Language, Lyon, France.

Specific symposium presentation:

Holt, R.F., Bent, T., Miller, K., & Jones, A. (2017, July). *Children's dialect and foreign-accent perception in noise*. Symposium presented at the 14th International Congress for the Study of Child Language, Lyon, France.

Miller, K. E., **Holt, R. F.**, Bent, T., Skratz Henry, M. G., Martin, M. M., & Wagner, L. (August, 2017). *Recognition of native and nonnative accents: Support for a perceptual continuum*. Poster session presented at the Fourth Annual OSU Cognitive and Brain Sciences Member Fall Retreat, Mt. Sterling, OH.

Ahn, S, Goldthwaite, I., Corbeil, K., Byrer, A., Perry, K., PolaKampalli, A., Miller, K., **Holt, R. F.**, & Lee, Y. S. (November, 2017). *Rhythm sensitivity assists in overcoming acoustic and syntactic challenges during speech listening*. Paper to be presented at the annual meeting of the Society of the Neurobiology of Language, Baltimore, MD.

Invited Presentations (State, National, or International)

Svirsky, M. A., Jester, A., & **Holt, R. F.** (2006, March). *A sensitive period for the development of intelligible speech in children with cochlear implants*. Invited paper presented at the 8th European Symposium on Pediatric Cochlear Implantation, Lido di Venezia, Italy.

Holt, R. F. (2006, March). *Speech perception in pediatric cochlear implant recipients: Results from new populations served by speech-language pathologists*. Invited paper presented at the annual meeting of the Indiana University Annual National Student Speech-Language-Hearing Association Conference, Bloomington, IN.

Holt, R. F. (2006, April). *Cochlear implants in two new pediatric populations*. Invited paper presented at the annual meeting of the Indiana Speech and Hearing Association, Indianapolis, IN.

Kirk, K. I., **Holt, R. F.**, & Miyamoto, R. T. (2006, November). *Age at implantation effects in six-year-old children*. Invited paper presented at the 2006 Chinese University of Hong Kong ENT Conference, Prince of Wales Hospital, Shatin, N.T., Hong Kong.

Holt, R. F. (2008, June). *Early intervention for infants with hearing loss*. Invited presentation at the First Steps Conference, All About Infants: Early Intervention for Infants with Special Needs, Indianapolis, IN.

Holt, R. F. (2011, April). *Serving children with severe hearing loss and deafness*. Invited presentation at the 2011 Indiana Early Childhood Conference, Indianapolis, IN.

Holt, R. F. (2011, June). *Not-so-terrible twos: Assessing speech-sound discrimination in toddlers*. Invited paper presented at the University of Maryland, Department of Hearing and Speech Sciences, College Park, MD.

Holt, R. F. (2012, February). *Not-so-terrible twos: Toddler speech-sound discrimination assessment and contributing non-sensory factors*. Invited paper presented at Butler University, Department of Communication Sciences and Disorders, Indianapolis, IN.

Holt, R. F. (2012, March). *Family environment influences on developmental outcomes in children with cochlear implants*. Invited paper presented at the University of Iowa, Department of Communication Sciences and Disorders, Iowa City, IA.

Holt, R. F. (2012, June). *Novel sources of variance in spoken language outcomes of cochlear implant recipients*. Invited paper presented at Mayo Clinic, Department of Otolaryngology, Audiology Section, Jacksonville, FL.

Holt, R. F. (2012, September). *The ear is connected to the brain. Intervention outcomes in children with hearing loss: Family matters*. Invited paper presented at the annual fall meeting of the Indiana Speech-Language-Hearing Association, Indianapolis, IN.

Holt, R. F. (2013, February). *Family environment influences on core developmental outcomes in children with hearing loss*. Invited paper presented at the Ohio State University, Department of Speech and Hearing Science, Columbus, OH.

Holt, R. F. (2013, February). *Family influences on core developmental outcomes in children with hearing loss*. Invited paper presented at the University of Illinois, Department of Speech and Hearing Science, Champaign, IL.

Holt, R. F. (2013, March). *The influence of family environment on core developmental outcomes in children with hearing loss*. Invited paper presented at Arizona State University, Department of Speech and Hearing Sciences, Tempe, AZ.

Holt, R. F. (2013, December). *Family matters: The influence of family environment on spoken, language, social, and cognitive development in children with hearing loss*. Invited paper presented at Nationwide Children's Hospital, Departments of Otolaryngology and Audiology, Columbus, OH.

Holt, R. F. (2014, July). *Family Influences on the Risk-Outcome Relationship in Children with Hearing Loss*. Invited paper presented at Nationwide Children's Hospital, Department of Neuropsychology, Columbus, OH.

Bent, T., **Holt, R. F.**, & Miller, K. (2018, February). *Non-Acoustic Influences on Speech Perception in Normal and Impaired Hearing*. Invited paper to be presented as part of a reviewed symposium at the Association for Research in Otolaryngology MidWinter Meeting, San Diego, CA.

Invited Presentations (Intramural)

Holt, R.F. (2005, October). *A new test of audiovisual sentence recognition for children with sensory aids: Test development and initial findings with normal-hearing children*. Invited paper presented in the Speech Research Lab (Pisoni), Indiana University, Bloomington, IN.

Holt, R. F. (2011, January). *Not-so-terrible twos: Assessing speech-sound discrimination in toddlers*. Invited paper presented at the DeVault Otologic Research Laboratory, Indiana University School of Medicine, Indianapolis, IN.

Holt, R. F. (2011, May). *Hearing, Hearing Loss and Audiology*. Invited presentation at the DeVault Otologic Research Laboratory, Indiana University School of Medicine, Indianapolis, IN.

Holt, R. F. (2012, February). *Contribution of Family Environment to Spoken Language Development in Children with Cochlear Implants*. Invited paper presented in the Speech Research Lab (Pisoni), Indiana University, Bloomington, IN.

Holt, R. F., & Beer, J. (2012, August). *Work in Progress: Family Factors in Hearing-Impaired Children's Academic and Social Development*. Invited paper presented at the DeVault Otologic Research Laboratory, Indiana University School of Medicine, Indianapolis, IN.

Holt, R. F. (2016, April). *School-age Children's Perception of Native Dialects and Nonnative Accents*. Invited paper presented at Lacquey's, Department of Linguistics, The Ohio State University, Columbus, OH.

TEACHING EXPERIENCE

The Ohio State University (2013-present)

Course Instruction

Undergraduate Level

SHS 4540 Introduction to Audiology

Graduate Level

SHS 6735 Hearing Aids I

SHS 6858 Introduction to Auditory Neuroscience

SHS 7805 Pediatric Audiology I

SHS 8931 Cochlear Implants

Student Training and Mentoring

Ph.D. Students

Andrew Blank 2016-present

Izabela Jamsek 2017-present

Ph.D. Committees

Carla Youngdahl (Speech and Hearing) 2013-2015

Matthew Davis (Speech and Hearing) 2014-2015

Sarah Yoho (Speech and Hearing) 2014-2016

M.A. Students

Katherine Miller 2016-present

Undergraduate Honors Thesis Students

Sarah Mabie 2013-2015

Undergraduate Thesis Students

Angela Hill 2013-2015

Co-Advised

Lauren Boyce 2014-2015

Natalie Safdar 2016-2017

National Science Foundation REU Students (Site Grant #1461039)

Tiarah Wilcox	2015
Akemi Jones	2016
Emma Libersky	2017
Moné Skratt Henry	2017
Melissa Martin	2017
Sarah Binau	2017
Corrin Moss	2017

Au.D. Capstone Students

Samuel Brown	2015-2016
Kayla Fuzer	2015-2016
Amanda Hager	2015-2016
Taylor Wucinich	2016-2017
Leah Benedict	2016-present
Abby Wills	2017-present
Kelly Epperson	2017-present

Indiana University (2005-2013)

Course Instruction

Undergraduate Level

S478 Rehabilitative Audiology

Graduate Level

S579 Children and Hearing Loss

S515 Cochlear Implants

S677 Implantable Auditory Prostheses

S680 Independent/Directed Study

S778 Educational Audiology

Student Training and Mentoring

Ph.D. Student

Kaylah Lalonde 2009-2014

Current Position: Research Scientist, Boys Town National Research
Hospital

Postdoctoral Fellow

Tessa Bent, Ph.D. 2007-2008

Current Position: Associate Professor, Indiana University

School of Medicine and Au.D. Predoctoral Trainees (funded by T32 DC00012)

Anna Lin 2004

Lisa Burckhartzmeyer 2005

Stacy Howell 2006

Tera Quigley 2011

Courtney Myers 2012

Lindsay Smith 2013

<i>Undergraduate Honors Thesis Students</i>	
Chariz Fong	2007-2008
Spencer Smith	2008-2009
Lindsay Smith	2011-2012
Rebecca Trzuppek	2012-2013

Training for Research and Academic Careers in Communication Sciences (TRACCS) Students

Aileen Wong	2007
Kathy Carbonell	2008
Kierra Villines	2011

Ph.D. Committees

Esperanza Miranda Anaya (Psychological and Brain Sciences)	2011-2013
Adrienne Roman (Psychological and Brain Sciences)	2011-2013
Kristin Baar (Speech and Hearing Sciences)	DNF

M.A. Thesis Committees

Victoria Cook (Speech and Hearing Sciences)	2010-2011
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University of Minnesota (2000-2002)

Course Instruction

Undergraduate Level

CDis 4801 Hearing Measurement and Disorders – Teaching Assistant

Graduate Level

CDis 5803 Hearing Loss in Children: Diagnosis – Taught genetics portion of class

CDis 8801 Audiologic Assessment II – Taught vestibular portion of class/Teaching Assistant

CDis 5702 Audiologic Assessment I – Teaching Assistant

CDis 5802 Hearing Aids I – Teaching Assistant

CDis 8305 Signals and Systems in Audiology – Teaching Assistant

PROFESSIONAL ACTIVITIES

The Ohio State University

Departmental

Au.D. Subcommittee, Chair	2013-2017
Graduate Studies Committee, Member	2013-2017
Promotion & Tenure Committee, Member	2013-present
Equity & Inclusion Committee, Member	2016-present
Guest Lecturer	
SHS 2230 Introduction to Communication and its Disorders	2013-present
PSY 5700 Training in Science Education Outreach	2016-present
SHS 8900 PhD Proseminar	2016-present

University/Community

Center for Science and Industry Columbus (COSI) Buckeye Language Pod Faculty Member Regular presenter at research open house	2014-present
Children's Hearing and Language Development Resource Network of Ohio (CHLDRN of Ohio), Member	2016-present
Advancement Director, Language Sciences Research Lab Executive Committee	2017-present

National

Grant Reviewer <i>National Institutes of Health, LCOM Study Section</i> Temporary Member	2017
Convention Program Committee Member <i>American Speech-Language-Hearing Association</i>	2017
Speech Communication Technical Committee Member <i>Acoustical Society of America</i>	2008-2014
Editorial Board Member <i>Journal of Speech, Language, and Hearing Research – Hearing Section</i>	2017-present
	<i>Otology and Neurotology</i> 2013-present
Guest Associate Editor <i>Journal of Speech, Language, and Hearing Research</i>	2013
Editorial Consultant <i>Child Development Perspectives</i>	2013
	<i>Ear and Hearing</i> 2013-2016
	<i>Journal of Child Language</i> 2015
	<i>Journal of Speech, Language, and Hearing Research</i> 2013-2017
	<i>Journal of the Acoustical Society of America</i> 2013-2014
	<i>Otology and Neurotology</i> 2013-2016
	<i>American Journal of Audiology</i> 2013-2014
	<i>Research in Developmental Disabilities</i> 2015

Memberships

<i>Acoustical Society of America</i>	
<i>American Auditory Society</i>	
<i>American Speech-Language-Hearing Association</i>	
<i>American Cochlear Implant Alliance</i>	
Guest Lecturer University of Minnesota	2014

International

Grant Reviewer National Science Centre, Poland	2014-2015
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Indiana University

2005-2013

Departmental

Guest Lecturer S110 Survey of Communication Disorders	
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S201 Speech Anatomy and Physiology	
S579 Children and Hearing Loss	
S683 Research Forum	
TRACCS	
Committee Memberships	
Diversity Committee	
Student Concerns Committee	
Collegiality Committee	
Undergraduate Curriculum Committee	
Au.D. Comprehensive Exams Reader/Evaluator	
Au.D. Clinical Gateway Exams Evaluator	
Search and Screen Committee Member (Clinical Assistant Professor in Audiology)	
Search and Screen Committee Member (Preschool Teacher)	
Search and Screen Committee Member (Preschool Teacher)	
Search and Screen Committee Member (Assistant Professor in Speech/Hearing Science)	
Collaborator, Clinical ABR protocol development for babies who fail UNHS	
<i>University</i>	
Search and Screen Committee Member	2010
Campus View Child Care Center (Infant/Toddler Teacher)	
Grant Reviewer	
Indiana University Faculty Research Support Program (FRSP)	2011
Indiana University Collaborative Research Grant (IUCRG)	2013
<i>Community</i>	
Bloomington Minority Health Fair Volunteer	2006
Heiny Helpers Co-Founder, Board Member and Volunteer	2011-2014
<i>State</i>	
Center for Interactive Learning and Collaboration	2005
Indiana University School of Medicine Expert Lecturer on Hearing and Hearing Loss for K-12 Education Programs	
First Steps	2008
Invited presentation on Early Intervention for Infants with Hearing Loss for Professionals and Parents	
Indiana Association for the Education of Young Children, Inc.	2011
Invited Presentation on Serving Children with Severe Hearing Loss and Deafness for Professionals	
<i>National</i>	
Speech Communication Technical Committee Member	2008-2014
<i>Acoustical Society of America</i>	
Convention Program Committee Member	2009
<i>American Speech-Language-Hearing Association</i>	
Editorial Board Member	
<i>Otology and Neurotology</i>	2013-present

Guest Associate Editor		
	<i>Journal of Speech, Language, and Hearing Research</i>	2013
Editorial Consultant		
	Published Book Review: <i>Cochlear Implants: What Parents Should Know</i> Holt, R. F. (2010). <i>International Journal of Audiology</i> , 49, 865.	
	<i>Jones & Bartlett Learning</i> (reviewed a book proposal on communication training for children with hearing loss)	2011
	<i>American Journal of Audiology</i>	2011-2013
	<i>American Journal of Speech-Language Pathology</i>	2001
	<i>Child Development Perspectives</i>	2013
	<i>Cochlear Implants International</i>	2010-2012
	<i>Current Psychology Letters</i>	2007-2008
	<i>Developmental Medicine and Child Neurology</i>	2006-2007
	<i>Ear and Hearing</i>	2002-2013
	<i>International Journal of Audiology</i>	2004-2009
	<i>International Journal of Pediatric Otorhinolaryngology</i>	2006-2007
	<i>Journal of Speech, Language, and Hearing Research</i>	2005-2013
	<i>Language, Speech, and Hearing Services in the Schools</i>	2010
	<i>Journal of the Acoustical Society of America</i>	2011-2013
	<i>Otology and Neurotology</i>	2012-2013
	<i>Pediatrics</i>	2009
	<i>The Volta Review</i>	2004-2010