

# Kathryn Wiseman, AuD, PhD, CCC-A

## Scientist I

### Director, Child Auditory Technology Lab

Boys Town National Research Hospital

kathryn.wiseman@boystown.org

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## EDUCATION

### 2020 Doctor of Philosophy, Communication Sciences and Disorders

The University of Texas at Dallas, Richardson, Texas

Dissertation Title: *Multidimensional Evaluation of Daily Device Use, Communication, and the Family System in Pediatric Cochlear Implant Users*

Advisor: Andrea Warner-Czyz

### 2017 Doctor of Audiology

The University of Texas at Dallas, Richardson, Texas

Capstone project: *Writing Fluency in School-Aged Children with Cochlear Implants*

Advisor: Andrea Warner-Czyz

### 2011 Bachelor of Science, Cognitive Neuroscience

Brown University, Providence, Rhode Island

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## PROFESSIONAL EXPERIENCE

2022 - Present **Scientist I, Director of the Child Auditory Technology Laboratory**

2020 - 2022 **Postdoctoral Research Fellow**, NIH Training Grant (T32)

Boys Town National Research Hospital, Mentor: Ryan McCreery

2015 - 2017 **Audiology Extern**, Callier Center for Communication Disorders, Dallas, TX

2014 - 2020 **Research assistant, Children and Infant Listening Laboratory (CHILL)**

The University of Texas at Dallas, PI: Andrea Warner-Czyz

2014 - 2020 **Teaching assistant**, The University of Texas at Dallas

2010 - 2020      **Research assistant, Dallas Cochlear Implant Program Laboratory**  
The University of Texas at Dallas, PI: Emily Tobey (2010-2014), Andrea Warner-  
Czyz (2014-2020)

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## GRANTS AND FELLOWSHIPS

### External

**Principal Investigator.** 5 P20 GM109023-09, *Spectral Ripple Detection in Children with Hearing Loss*. 2023-2024.

**T32 Postdoctoral Research Fellowship.** NIH 2T32DC000013, *Research in Human Communication and Its Disorders*. 2020-2025 (Years 42-43). Program director: Monita Chatterjee.

**Principal Investigator.** American Speech-Language-Hearing Foundation Student Research Grant in Audiology, *Inconsistent device use in young cochlear implant users*. 2018-2019.

### Internal

**Co-Principal Investigator.** Boys Town National Research Hospital Diversity, Equity, and Inclusion Funding Initiative, *Daily hearing aid and language use in Spanish/English bilingual children who are hard of hearing*. 2022-2023.

**Principal Investigator.** University of Texas at Dallas Office of Graduate Studies Dissertation Research Award, *The impact of inconsistent device use in young children with cochlear implants*. 2019-2020.

**Principal Investigator.** Susan and Jim Jerger Research in Audiology Fellowship, *Inconsistent device use in young pediatric cochlear implant users*. 2018-2019.

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## PUBLICATIONS

### Refereed Journal Articles

**Wiseman, K.B.,** Walker, E.A., Spratford, M., Brennan, M., & McCreery, R.W. (accepted). Comparing Criteria for Deviation from Hearing Aid Prescriptive Targets in Children. *International Journal of Audiology*.

**Wiseman, K.B.,** McCreery, R.W., & Walker, E.A. (2023). Hearing Thresholds, Speech Recognition, and Audibility as Indicators for Modifying Intervention in Children With Hearing Aids. *Ear and Hearing*, 44(4), 787-802. <https://doi.org/10.1097/AUD.0000000000001328>

McCreery, R.W., Walker, E.A., Lewis, D.E., Oleson, J.J., Stiles, D.J., Davidson, L., Martin, P., Sapp, C., Spratford, M., **Wiseman, K.**, Haggerty, A., Heusinkvelt, M., Leibold, L., & Buss, E. (Accepted). Clinical validation of novel audiometry and speech recognition tools for improving the identification of mild bilateral hearing loss in children: a registered report. *Journal of Speech, Language, and Hearing Research*.

**Wiseman, K.B.**, Slotkin, J., Spratford, M., Haggerty, A., Heusinkvelt, M., Weintraub, S., Gershon, R., & McCreery, R.W. (2022). Validation of a tablet-based assessment of auditory sensitivity for behavioral scientists. *Behavior Research Methods*, 55, 2838-2852. <https://doi.org/10.3758/s13428-022-01933-1>

Warner-Czyz, A.D., **Wiseman, K.B.**, & Nelson, J.A. (2021). Quantitative and qualitative perspectives of siblings of children with cochlear implants. *Journal of Speech, Language, and Hearing Research*, 64(7), 2854–2869. [https://doi.org/10.1044/2021\\_JSLHR-20-00624](https://doi.org/10.1044/2021_JSLHR-20-00624)

**Wiseman, K.B.**, Warner-Czyz, A.D., Kwon, S., Fiorentino, K., & Sweeney, M. (2021). Relationships between daily device use and early communication outcomes in young children with cochlear implants. *Ear & Hearing*, 42(4), 1042-1053. <https://doi.org/10.1097/AUD.0000000000000999>

**Wiseman, K.B.**, Warner-Czyz, A.D., & Nelson, J.A. (2021). Stress in parents of school-age children and adolescents with cochlear implants, *Journal of Deaf Studies and Deaf Education*, 26(2), 209-222. <https://doi.org/10.1093/deafed/enaa042>

**Wiseman, K.B.** & Warner-Czyz, A.D. (2018). “Inconsistent device use in pediatric cochlear implant users: Prevalence and risk factors.” *Cochlear Implants International*, 19(3), 131-141. <https://doi.org/10.1080/14670100.2017.1418161>

Grinn, S.K., **Wiseman, K.B.**, Baker, J.A., & Le Prell, C.G. (2017). Hidden hearing loss? No effect of common recreational noise exposure on cochlear nerve response amplitude in humans. *Frontiers in Neuroscience*, 11, 465. <https://doi.org/10.3389/fnins.2017.00465>

### Invited Publications

**Wiseman, K.B.** & McCreery, R.W. (2023). Quantifying access to speech in children with hearing loss: The influence of the work of Pat Stelmachowicz on measures of audibility. *Seminars in Hearing*, 44 (Suppl 1), S17-S28. <https://doi.org/10.1055/s-0043-1764136>

**Wiseman, K.B.** (2022). Prescriptive Target Proximity in Children with Hearing Aids. *Audiology Today*, 34(1), 34-43.

**Wiseman, K.**, Sapp, C., Walker, E., & McCreery, M. (2021). Comprehensive audiological management of HL in children, including mild and unilateral hearing loss. *Otolaryngologic Clinics of North America*, 54(6), 1171-1179. <https://doi.org/10.1016/j.otc.2021.08.006>

**Wiseman, K.B.** & Warner-Czyz, A.D. (2021). Parental stress and deaf children. *Raising and Educating Deaf Children*. [E-Bulletin].

<http://www.raisingandeducatingdeafchildren.org/2021/04/20/parental-stress-and-deaf-children>

Walker, E.A., **Wiseman, K.B.**, & McCreery, R.W. (2021). Keeping Amplification Levels Safe for Children with Hearing Loss. *Canadian Audiologist*, 8(2).

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## HONORS AND SCHOLARSHIPS

Sig Soli Scholarship, International Hearing Aid Conference (IHCON), 2022

New Investigator Travel Award, American Auditory Society, 2022

Research Mentoring Pair-Travel Award, American Speech-Language-Hearing Association (ASHA), 2021, Mentor: Caitlin Sapp (UNC)

Program participant, Pathways Program, ASHA, 2021, Mentor: Emily Lund (TCU)

American Cochlear Implant Alliance (ACIA) Scholarship to attend the Virtual ACIA conference (March 28 - April 1, 2021)

ASHA Student Research Travel Award to attend the ASHA convention in Orlando, Florida (November 21-23, 2019)

ACIA Scholarship to attend the ACIA conference in Hollywood, FL (July 10-13, 2019)

Audiology Research Travel Award (ARTA) to attend the ASHA convention in Boston, MA (November 14-16, 2018)

ACIA Scholarship to attend the ACIA conference in Washington, D.C. (October 15-17, 2015)

ASHA Student Research Travel Award to attend the ASHA convention in Chicago, Illinois (November 14-16, 2013)

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## PRESENTATIONS AT PROFESSIONAL MEETINGS

### Invited talks

**Wiseman, K.B.** (2023, April). *Grand Rounds: Amplification*. Invited oral presentation at the American Academy of Audiology 2023+HearTECH Expo, Seattle, WA.

**Wiseman, K.B.** (2022, October). *Over the counter hearing aids: What audiologists should know*. Invited oral presentation at the Nebraska Speech-Language Hearing Association Annual Conference, Lincoln, NE.

**Wiseman, K.B.** (2022, September). *Progressive Hearing Loss in Children: Identification and Management*. Invited oral presentation at the Kansas Speech-Language Hearing Association Annual Conference, Manhattan, KS.

**Wiseman, K.B.** (2022, September). *To change or not to change? Decisions Regarding Changes to Intervention in Children with Hearing Loss*. Invited oral presentation at the Kansas Speech-Language Hearing Association Annual Conference, Manhattan, KS.

**Wiseman, K.B.** & Horn, D. (2021, November). *Auditory Development in Children after Pediatric Cochlear Implantation: Honoring the Work of Pat Stelmachowicz*. Invited oral presentation at the American Speech-Language Hearing Association Convention, Washington, DC.

**Wiseman, K.B.**, Brennan, M., & Johnson, C. (2021, October). *Evidence-Based Candidacy & Treatment Options for Children & Adults with Mild Hearing Loss*. Invited oral presentation at the 2021 Nebraska Speech-Language-Hearing Association Fall Convention, Kearney, NE.

**Wiseman, K.B.** (2020, April). *Daily device use in children with cochlear implants*. Invited oral presentation at the North Texas Cochlear Implant Symposium, Dallas, Texas (conference canceled due to COVID-19).

### Oral presentations

**Wiseman, K.B.**, Walker, E.A., & Spratford, M., McCreery, R.W. (2023, November). *Evidence-Based Guidelines for Deviation from Hearing Aid Prescriptive Targets in Pediatric Users*. Presented at the American Speech-Language Hearing Association Convention, Boston, MA.

**Wiseman, K.B.**, Walker, E.A., & McCreery, R.W. (2022, November). *The Effect of Changes in Audiometric Thresholds on Speech Audibility in Children with Hearing Loss*. Presented at the American Speech-Language Hearing Association Convention, New Orleans, LA.

McCreery, R.W., Lewis, D.E., **Wiseman, K.**, Davidson, L., Stiles, D.J., Heusinkvelt, M., Haggerty, A., Walker, E.A., (2022, November). *Finding solutions to treat reduced audibility in kids (FASTRAK study)*. Presented at the American Speech-Language Hearing Association Convention, New Orleans, LA.

**Wiseman, K.B.**, Walker, E.A., & Crukley, J., McCreery, R.W. (2022, August). *The Impact of Changes in Hearing Thresholds on Hearing Aid Fitting in Children who are Hard of Hearing*. Presented at the International Hearing Aid Seminar (IHAS), Tahoe City, CA.

**Wiseman, K.B.**, Walker, E.A., & McCreery, R.W. (2022, May). *Aided Audibility and Cochlear Implant Candidacy Referrals: Evidence from Pediatric Hearing Aid Users*. Presented at CI2022 DC: Emerging Issues in Cochlear Implantation, Washington, DC.

**Wiseman, K.B.** & Warner-Czyz, A.D. (2021, March). *The experience of siblings of children with cochlear implants*. Presented at CI2021 Virtual Meeting: Cochlear Implants in Adults and Children.

**Wiseman, K.B.** & Warner-Czyz, A.D. (2019, November). *Investigating daily device use with datalogging in young children with cochlear implants*. Presented at the American Speech-Language Hearing Association Convention, Orlando, Florida.

Warner-Czyz, A.D., Geers, A.E., Wang, N.-Y., Mitchell, C., **Wiseman, K.B.**, & Eisenberg, L.S. (2019, November). *Speech production & speech intelligibility as independent & interdependent outcomes in long-term pediatric implant users*. Presented at the American Speech-Language Hearing Association Convention, Orlando, Florida.

**Wiseman, K.B.**, Warner-Czyz, A.D., Geers, A.E., Wang, N.-Y., Mitchell, C., Peskova, O., & Eisenberg, L.S. (2019, June). *The emergence of speech intelligibility in long-term pediatric cochlear implant users*. Presented at CI2019 Pediatrics: 16th Symposium on Cochlear Implants in Children, Hollywood, Florida.

**Wiseman, K.B.**, Warner-Czyz, A.D., Kwon, S., Fiorentino, K., & Sweeney, M. (2018, June). *The impact of inconsistent device use in young cochlear implant users*. Presented at the 15th International Conference on Cochlear Implants and Other Implantable Devices, Antwerp, Belgium.

Warner-Czyz, A.D., Geers, A.E., Wang, N.-Y., Mitchell, C., **Wiseman, K.B.**, Decker, J., & Eisenberg, L.S. (2018, June). *Salient predictors of speech development in long-term pediatric cochlear implant users*. Presented at the 15th International Conference on Cochlear Implants and Other Implantable Devices, Antwerp, Belgium.

### Poster presentations

**Wiseman, K.B.**, McCreery, R.W., Cowan, T., Calandruccio, L., Walker, E.A., & Leibold, L. (2023, February). Device use in Spanish-English bilingual children with hearing loss. Presented at the 50th Annual Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.

**Wiseman, K.B.**, Walker, E.A., & Crukey, J., McCreery, R.W. (2022, August). *The Impact of Changes in Hearing Thresholds on Hearing Aid Fitting in Children who are Hard of Hearing*. Presented at the International Hearing Aid Conference (IHCON), Tahoe City, CA.

**Wiseman, K.B.**, Walker, E.A., & McCreery, R.W. (2022, February). *Longitudinal Changes in Hearing Thresholds in Children who are Hard of Hearing*. Presented at 49th Annual Scientific and Technology Conference of the American Auditory Society, Scottsdale, AZ.

**Wiseman, K.B.**, McCreery, R.W., & Walker, E.A. (2021, March). Audibility-based indications to modify intervention in children with hearing aids. Presented at the 8<sup>th</sup> International Pediatric Audiology Conference - A Sound Foundation Through Early Amplification, Virtual.

- Wiseman K.B.** & Warner-Czyz, A.D. (2021, April). *General and hearing loss-specific stressors for parents of school-age children and adolescents with cochlear implants*. Presented at the CI2021 Virtual Meeting: Cochlear Implants in Children and Adults.
- Wiseman, K.B.** & Warner-Czyz, A.D. (2020, March). *Personality matters: Child temperament and language in young children with cochlear implants*. Accepted to the 16th International Conference on Cochlear Implants and Other Implantable Devices, Orlando, Florida. (Canceled due to COVID-19).
- Wiseman, K.B.**, Warner-Czyz, A.D., Kwon, S., Fiorentino, K., Fowler, S.L., & Tolstyka, D. (2018, March). *Daily device use in pediatric cochlear implant users over time*. Presented at the 3rd American Cochlear Implant Alliance Emerging Issues in Cochlear Implantation conference, Washington, DC.
- Baker, J.A., Grinn, S.K., **Wiseman, K.B.**, & Le Prell, C.G. (2017, April). *Potential speech-in-noise deficits in normal-hearing, noise-exposed adults*. Presented at AudiologyNOW, the annual convention of the American Academy of Audiology, Indianapolis, Indiana.
- Grinn, S.K., Baker, J.A., **Wiseman, K.B.**, & Le Prell, C.G. (2017, April). *Hidden hearing loss: Assessment of ABR wave-I amplitude before and after recreational noise exposure*. Presented at AudiologyNOW, the annual convention of the American Academy of Audiology, Indianapolis, Indiana.
- Fowler, S.L., Warner-Czyz., A.D., & **Wiseman, K.B.** (2017, April). *Effect of sound on heart rate in adults with typical hearing*. Presented at AudiologyNOW, the annual convention of the American Academy of Audiology, Indianapolis, Indiana.
- Wiseman, K.B.**, Baker, J.A., Grinn, S.K., and Le Prell, C.G. (2017, April). *Recreational noise exposure and DPOAE amplitudes in young adults*. Presented at AudiologyNOW, the annual convention of the American Academy of Audiology, Indianapolis, Indiana.
- Baker, J.A., Grinn, S.K., **Wiseman, K.B.**, & Le Prell, C.G. (2017, February). *Changes in performance on speech tests in quiet and in noise after recreational noise exposure*. Presented at the annual conference of the National Hearing Conservation Association. San Antonio, Texas.
- Grinn, S.K., Baker, J.A., **Wiseman, K.B.**, & Le Prell, C.G. (2017, February). *Assessment of ABR wave I amplitude before and after recreational noise exposure*. Presented at the annual conference of the National Hearing Conservation Association. San Antonio, Texas.
- Wiseman, K.B.**, Baker, J.A., Grinn, S.K., & Le Prell, C.G. (2017, February). *Relationship between DPOAE amplitude and recreational noise exposure*. Presented at the annual conference of the National Hearing Conservation Association. San Antonio, Texas.
- Wiseman, K.B.** & Warner-Czyz, A.D. (2016, June). *Inconsistent device use in children with cochlear implants*. Presented at the Hearing Across the Lifespan conference, Cernobbio (Lake Como), Italy.

- Wiseman, K.B.**, Assmann, S., & Warner-Czyz, A.D. (2015, October). *Writing fluency in school-aged children with cochlear implants*. Presented at the 2nd American Cochlear Implant Alliance Emerging issues in cochlear implantation conference, Washington, DC.
- Post, B.K., **Wiseman, K.B.**, Jordan, N., & Cokely, C.G. (2014, March). *Sound field amplification in an adult day center: Benefit to adults with dementia and service providers*. Presented at AudiologyNOW, the annual convention of the American Academy of Audiology, Orlando, Florida.
- Wiseman, K.B.**, Welch, D., Warner-Czyz, A.D., & Tobey, E.A. (2014, November). *Effect of early cochlear implantation on reading and writing skills in children*. Presented at the American Speech-Language Hearing Association Convention, Orlando, Florida.
- Wiseman, K.B.**, Warner-Czyz, A.D., & Loy, B.A. (2014, December). *Sibling perspective of family dynamic in families of children with cochlear implants*. Presented at the 14th Symposium of Cochlear Implants in Children, Nashville, Tennessee.
- Wiseman, K. B.**, Assmann, S., & Warner-Czyz, A.D. (2013, November). Multifactorial approach to language acquisition in young children with cochlear implants. Presented at the American Speech-Language Hearing Association Convention, Chicago, Illinois.
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## RESEARCH MENTORING

- 2023 - Present     Steven Gianakas, Boys Town National Research Hospital, Role: Postdoctoral Research Fellow co-mentor
- 2023 - Present     Sadie O'Neill, Towson University, Role: T35 mentor, AuD thesis committee member
- 2022 - 2023        Mandy Cooper, University of Pittsburgh, Bachelor of Nursing Science Honors Thesis: *Obtaining hearing care services for children & adolescents with hearing loss: patterns of access & experiences with care*, Role: External committee member
- 2022                Alexis Sherrick, University of Nebraska - Lincoln, AuD Student Capstone Topic: *The Effects of Threshold Measurements on Progressive Hearing Loss in Children*, Role: Consultant
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## TEACHING

**Teaching assistant - Graduate courses:** Laboratory Procedures in Audiology and Hearing Science (Fall 2018, 2019); Seminar on Cochlear Implants and Technology for Persons with Hearing



Impairments (Fall 2015, Fall 2016, Fall 2019); Pediatric Audiology (Spring 2018); Research in Audiology (Fall 2014, Spring 2016, Fall 2017); Audiologic Rehabilitation for Adults (Summer 2015)

**Teaching assistant - Undergraduate courses:** Audiology (Spring 2019); Anatomy and Physiology of Speech and Hearing (Spring 2017, Summer 2017)

**Course guest lecturer:** Research Ethics (Topic: Research Ethics and Scientific Integrity); Research in Audiology (Topics: Statistical Methods in Excel, Research Ethics and the IRB, Evidence Based Practice); Seminar on Cochlear Implants (Topic: Cochlear Implant MAPping and Programing Considerations); Pediatric Audiology (Topic: Behavioral Assessment in Pediatric Audiology, Pediatric Hearing Aids); Anatomy and Physiology of Speech and Hearing (Topic: Anatomy and Physiology of Hearing)

**Clinical Instructor:** Pediatric teaching clinic (Spring 2016); Adult teaching clinic (Fall 2016)

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## **PROFESSIONAL MEMBERSHIPS AND LICENSURE**

Certificate of Clinical Competence in Audiology (CCC-A), American Speech-Language Hearing Association, 2020-present

Member, American Auditory Society, 2022-present

Member, American Cochlear Implant Alliance, 2015-present

Member, American Speech-Language-Hearing Association (ASHA), 2012-present

Texas Audiology License, #80779, 2017-2020

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## **SERVICE**

### **Nationwide committees**

Editorial board member, American Journal of Audiology, 2020-present

Ad-hoc reviewer:

1. Cochlear Implants International, 2019-present
2. Ear & Hearing, 2020-present
3. JSLHR, 2022-present

Committee member and reviewer, Listening, Language and Speech in Children who are Deaf and Hard of Hearing sub-committee for the ASHA Convention, 2021

Committee member and reviewer, Audiology Implantables sub-committee for the ASHA Convention, 2022, 2023

Newsletter chair, Research Audiologist Information and Support Network (RAISN), 2022-2023

### **Community service**

Pediatric Hearing and Speech-Language screenings, Center of Hope Women's and Children's Shelter, Dallas, Texas, 2014 - 2019

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### **MEDIA COVERAGE**

University of Texas at Dallas (2018). *Researchers, Emergency Medical Team Earn Honors* [Press release]. Retrieved from <https://www.utdallas.edu/news/students/accolades-researchers-emergency-medical-response-team-earn-honors/>

Student Academy of Audiology (2017). *PhD Spotlight: Kathryn Wiseman*. [Press release]. Retrieved from <https://saa.audiology.org/news/phd-spotlight-kathryn-wiseman>