

Cory D.F. Portnuff, AuD PhD

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Curriculum Vitae
Prepared 7/29/2020

Education:

- 2004-2011 Ph.D. – Speech, Language and Hearing Sciences.
University of Colorado, Boulder, CO
- Advisor: Dr. Kathryn Arehart, Associate Professor, Speech Language, and Hearing Sciences
- 2004-2008 Au.D. – Clinical Audiology
University of Colorado, Boulder, CO
- 4th Year Externship: University of Colorado Hospital, Children’s Hospital Colorado
- 2000-2004 B.S. with Honors – Communication Disorders and Sciences
University of Oregon, Eugene, OR

Licensure, Certifications, and Certificates

- 2008-present License – Audiologist #547, State of Colorado
- 2009-present Board Certified in Audiology, American Board of Audiology
- 2015-present Certified Professional Supervisor of the Audiometric Monitoring Program (CPS/A), Council for Accreditation in Occupational Hearing Conservation
- 2016-present Pediatric Audiology Specialty Certification (PASC), American Board of Audiology
- 2017-present Certificate Holder, Audiology Preceptor (CH-AP), American Board of Audiology
- 2018-present Certificate Holder, Tinnitus Management (CH-TM), American Board of Audiology

Clinical and Research Narrative:

My clinical interests focus on pediatric and adult diagnostics and rehabilitation, with an emphasis on early identification and treatment of hearing loss and tinnitus. I have expertise in audiologic rehabilitation, as well as in hearing conservation programs and systems. Within the clinical setting, I am also interested in increasing education programs for the prevention of noise-induced hearing loss.

My research interests focus on the prevention of noise-induced hearing loss across the lifespan, with a focus on recreational noise exposure. Currently, my research examines music and the potential risk for music-induced hearing disorders. Within that topic, I explore the use of Health Behavior Models to analyze knowledge, attitudes and behaviors about hearing loss and amplified music. Other research interests include examining the relationships between sociodemographic factors and health behaviors, with a focus on audiologic treatment, as well as clinical outcomes within audiology.

Clinical Positions

- 7/13-present Clinical Audiologist, Hearing and Balance Clinic, University of Colorado Hospital
- Responsible for providing diagnostic and amplification services to adults and children in an academic medical setting with an interdisciplinary team.
 - Specialty focuses: Tinnitus, services for musicians, amplification.
 - Lead audiologist for tinnitus program, developed pediatric tinnitus program.
 - Preceptor for graduate audiology students.
 - Principal Investigator & Co-Investigator for clinical research projects.
- 2/20-present Consultant, World Health Organization Make Listening Safe Initiative.
- 12/08-8/17 Consulting Audiologist, Onsite Health Inc.
- Responsible for diagnostic audiometry, speech-in-noise testing, and hearing conservation for National Guard units across the U.S.
- 2/09-7/13 Clinical Audiologist, ENT of Denver, PC
- Responsible for providing diagnostic and amplification services to adults and children in a private practice ENT office setting (20% pediatric).
 - Responsible for managing finances, pricing, and daily business of the audiology clinic.
 - Pediatric Audiologist for the Rose Medical Center Cleft Palate & Craniofacial Center
 - Developed an ototoxicity monitoring program with local oncologists
 - Preceptor for graduate and undergraduate audiology students
- 7/08-1/15 Board of Directors, H.E.A.R. Project
- 11/2008-7/2009: Vice-President
 - 7/2009-9/2013: President. Responsible for the daily operations of a 501(c)3 non-profit charity helping children with hearing loss obtain amplification and rehabilitative services. Also responsible for fundraising, marketing, and website design for the organization.
- 7/08-7/09 Audiology Tech, University of Colorado Hospital, Aurora, CO
- Responsible for assisting with a large hospital volunteer newborn hearing screening program, including screening and coordinating follow-up.
 - Responsible for coordinating candidacy and entry into an FDA Phase IIb clinical study for an implantable hearing device. Assisted with research data collection and FDA compliance documentation for this study.
- 6/07-7/08 Externship, Hearing and Balance Clinic, University of Colorado Hospital, Aurora, CO
- 4th Year Externship, full time – 7 months
 - Pediatric focus, with some experience in cochlear implants and vestibular evaluation
 - 60% adult, 40% Pediatric
- Audiology, Speech and Learning, The Children’s Hospital, Aurora, CO
- 4th Year Externship, full time – 5 months
 - Pediatric evaluation and amplification, including electrophysiologic testing.
 - 100% pediatric

Academic Positions

- 7/16-present Assistant Clinical Professor, Otolaryngology, University of Colorado School of Medicine
- 7/13-7/16 Clinical Instructor, Otolaryngology, University of Colorado School of Medicine
- 8/17-present Lecturer, University of Colorado Boulder
- 1/15-6/15 Affiliate Instructor, Metropolitan State University of Denver
- 2/13-7/13 Research Associate (contract), Hearing Research Lab, University of Colorado
- Responsible for coordinating and assisting in the design of research studies, subject recruitment and running subjects through a variety of experimental protocols.
- Responsible for designing a recording system for hearing aid output recording
- 8/12-12/12 Affiliate Faculty, Northern Illinois University
- 7/07-12/11 Research Assistant, Hearing Research Lab & Binaural Hearing Research Lab, University of Colorado
- Responsible for coordinating research, subject recruitment and running subjects through a variety of experimental protocols.
- 8/06-5/07 Graduate Part-Time Instructor, SLHS Department, University of Colorado
- 8/05-8/06 Lab Assistant, Sign Language Development Lab, University of Colorado
- Responsible for database management, video editing and manuscript editing
- 1/05-2/05, Department Assistant. SLHS Department, University of Colorado
1/06-2/06 - Responsible for entering, organizing, filing and retrieving information about new applicants to the graduate program in Speech Language Pathology.

University Teaching

- 1/20-5/20 *SLHS 7550: Management and Prevention of Noise-Induced Hearing Loss*, University of
1/18-5/18 Colorado Boulder. Enrollment: 19 AuD students
- 1/18-5/18 *SLHS 7554: Instrumentation and Calibration*, University of Colorado Boulder.
Enrollment: 19 AuD students
- 8/17-12/17 *SLHS 3106: Hearing Science*. Co-Instructor for online undergraduate Hearing
Science course, University of Colorado Boulder
- Enrollment: 30 undergraduate (levelling) students
- 1/15-5/15 *SLHS 3600: Audiology 1*, Instructor. Undergraduate course taught mostly online,
Metropolitan State University of Denver
- Enrollment: 21 undergraduate SLHS students
- 8/12-12/12 *AUD 627: Anatomy & Physiology of Hearing*, Instructor. Northern Illinois University
- Graduate course taught mostly online with interactive video-based classes
- Enrollment: 12 AuD students
- 8/06-5/07 *SLHS 1010: Disabilities in Contemporary American Society*, Instructor
- Course examining society's relationship with adults and children with disabilities,

and the impacts of having a disability. This course fulfills core multicultural requirements for undergraduate degrees at the University of Colorado Boulder.

- Enrollment: 144 undergraduate students, freshman through senior level from diverse backgrounds over two semesters

- 1/06-5/06 *SLHS 4717: Audiologic Rehabilitation*, Co-instructor, University of Colorado Boulder.
- Co-taught course as a part of a Teaching Practicum Experience
 - Responsible for education technology, lectures, labs, and exams
 - Enrollment: 50 undergraduate students, primarily SLHS major juniors and seniors

Peer-Reviewed Publications

- Wartinger, F., Malyuk, H., Portnuff, C.D.F. (2019) Human exposures and their associated hearing loss profiles: Music industry professionals. *Journal of the Acoustical Society of America*, 146 (5). 3906-3910. DOI: 10.1121/1.5132541
- Portnuff, C.D.F., & Price, D. (2019). Validation of clinical techniques for verification of uniform attenuation earplugs. *International Journal of Audiology*, 58:sup1, S33-S39. DOI: 10.1080/14992027.2018.1532119
- Cass, N., Gubbels, S. P., & Portnuff, C.D.F., (2018). Sudden Bilateral Hearing Loss, Tinnitus, and Vertigo as Presenting Symptoms of Chronic Myeloid Leukemia, *Annals of Otolaryngology, Rhinology & Laryngology*, 127(10). 731-734, DOI: 10.1177/0003489418787831
- Portnuff, C.D.F., (2018). Best Practices for Fitting, Dispensing, and Verifying Hearing Protection Devices for Musicians. In Hammershøi, D. & Boley, J. (Eds), *Proceedings of the 2018 AES International Conference on Music Induced Hearing Disorders*, DOI: 10.17743/aesconf.2018.978-1-942220-20-6
- Portnuff, C. D. F., Kleindeinst, S. & Bogle, J. (2017). Safe Use of Acoustic Vestibular-Evoked Myogenic Potential Stimuli: Protocol and Patient-Specific Considerations. *Journal of the American Academy of Audiology*, 28(8). 708-717. DOI: 10.3766/jaaa.16071
- Brown, A. D., Rodriguez, F. A., Portnuff, C. D. F., Goupell, M. J., & Tollin, D. J. (2016). Time-varying distortions of binaural information by bilateral hearing aids: Effects of nonlinear frequency compression. *Trends in Hearing*, 20. 1-15. DOI: 10.1177/2331216516668303
- Portnuff, C. D. F. (2016). Reducing the risk of music-induced hearing loss from overuse of portable listening devices: understanding the problems and establishing strategies for improving awareness in adolescents. *Adolescent Health, Medicine and Therapeutics*, 7, 27-35. DOI: 10.2147/AHMT.S74103
- Mattingly, J. K., Portnuff, C. D. F., Hondorp, B. M., & Cass, S. P. (2015). Sudden Bilateral Hearing Loss following Cervical and Ocular Vestibular Evoked Myogenic Potentials (VEMP). *Otology & Neurotology*, 36(6). 961-964. DOI: 10.1097/MAO.0000000000000764
- Portnuff, C.D.F, Fligor, B. J. & Arehart, K.H. (2013). New measurement techniques for portable listening devices: Technical report. *Journal of the Audio Engineering Society*, 61. 749-754
- Portnuff, C.D.F, Fligor, B. J. & Arehart, K.H. (2013). Self-Report and Long-Term Field Measures of MP3 Player Use: How Accurate is Self-report? *International Journal of Audiology*, 52, S33-40. DOI: 10.3109/14992027.2012.745649

Portnuff, C.D.F, Fligor, B. J. & Arehart, K.H. (2012). New measurement techniques for portable listening devices: Technical report, *Proceedings of the 47th International Conference: Music Induced Hearing Disorders, Audio Engineering Society, 59*

Portnuff, C.D.F, Fligor, B. J. & Arehart, K.H. (2011). Teenage MP3 player use: A risk to hearing? *Journal of the American Academy of Audiology, 22.* 663-677. DOI: 10.3766/jaaa.22.10.5

Non-Peer Reviewed Publications

Santucci, M., Chasin, M., Chesky, K., Fligor, B., Heche, M., Le Prell, C., Malyuk, H., Portnuff, C., Tannenbaum, L., Wartinger, F., (2020) *American Academy of Audiology Clinical Consensus Document: Audiological Services for Musicians and Music Industry Personnel.*

Kronen, C. Portnuff, C.D.F., Arehart, K.H. (2019). Outputs of commercially available volume-limited headphones. *NHCA Spectrum.*

Portnuff, C. (2019). Best Practices in Fitting Hearing Protection for Musicians. *The Hearing Journal, 72(6),* 38-40.

Portnuff, C., & Bell, B. (2019). Effective Use of Speech-in-Noise Testing in the Clinic. *The Hearing Journal, 72(5),* 40-42.

Robler, S. K., Portnuff, C., & Bogle, J. (2018), VEMP Stimuli: A guide to ensuring patient safety. *Audiology Today, 30(3).* 62-73.

Fligor, B., Le Prell, C., Wartinger, F., Portnuff, C., Berger, E., & Santucci, M. (2018) *National Hearing Conservation Association Position Statement on Recreational Music Exposure.*

Portnuff, C. D. F. (2013). The “Epidemic” of Hearing Loss from MP3 Player Use. *Canadian Hearing Report, 8(2).* 43

Portnuff, C. D. F. (2012). The “Epidemic” of Hearing Loss from MP3 Player Use. *NHCA Spectrum, 29(3).*

Portnuff, C. D. F. (2011). *Music-induced hearing loss from portable listening devices: Factors that influence risk behaviors.* Unpublished Dissertation, University of Colorado, Boulder, CO.

Portnuff, C.D.F. (2011, October). iPod generation at work: Watch out for music-induced hearing loss. *Industrial Safety and Hygiene News, 45 (10).* 62-64

Portnuff, C. D. F. (2010, August 19). “Turn It Down”, Expert commentary in “Room for Debate” feature. *New York Times Online Edition.*

Portnuff, C.D.F. (2004). *The Efficacy of Cochlear Implants: Advantages of Implantation.* Unpublished Undergraduate Honors Thesis, University of Oregon

Invited Academic Lectures

Music-induced hearing disorders. Invited presentation at the Nancy Baptiste Memorial Audiology Conference, Oakland, CA. May 2019

Understanding music-induced hearing disorders & Interventions for musicians – hearing protection and hearing aids. Invited presentation at the UCSF Audiology Update XIII, October 2018.

Understanding the interaction between hearing loss and music: serving patients, musicians and music consumers. Full day workshop presented at the Colorado Academy of Audiology Summer Symposium, July 2018.

Understanding the interaction between hearing loss and music: serving patients, musicians, and music consumers. Full day workshop presented at Central Michigan University, September 2016.

Music-Induced Hearing Loss. Lecture and labs in graduate Audiology course, University of Northern Colorado, taught annually 2010-2018.

Music-Induced Hearing Loss. Lecture and labs in SLHS 7550 Auditory Process: Environmental and Occupational Factors, University of Colorado at Boulder. Repeated: 3/10, 4/12, 3/16

Noise Hazards from Portable Listening Devices. Invited presentation at *Innovations in Noise-Induced Hearing Loss and Tinnitus Prevention in Kids* conference, October 2013

Longitudinal Study of iPod Use with Field Dosimetry: Getting Closer to the Truth about Risky Listening, Webinar presented on AudiologyOnline, July 2012

Understanding the Risks of Hearing Loss from Personal Music Player Overuse. Invited Presentation at Starkey Five Star Audiology conference, Toronto, ON, June 2012

Assessing MP3 Player Use in the Clinic: Measurement and Counseling. Webinar presented on eAudiology, November 2010

Teenage MP3 Player Use: A Hazard to Hearing? Webinar presented on AudiologyOnline, July 2010

Conference Presentations and Posters:

Buchbinder, R. & Portnuff, C.D.F., (2019). *How Do Children With Unilateral Hearing Loss Use Their Devices?* Poster presented at the 18th Annual Early Hearing Detection & Intervention Meeting, Chicago, IL.

Portnuff, C.D.F., (2018). *Best Practices for Fitting, Dispensing, and Verifying Hearing Protection Devices for musicians.* Invited presentation at the Audio Engineering Society 3rd International Conference on Music Induced Hearing Disorders, Chicago, IL.

Kronen, C. & Portnuff, C.D.F. (2018). *Output Levels of Volume-Limiting Headphones.* Poster presented at the 2018 American Academy of Audiology Convention, Nashville, TN.

Portnuff, C.D.F. & Price (2018). *Validation of Clinical Techniques for Verification of Uniform Attenuation Earplugs.* Presentation at the 2018 National Hearing Conservation Association Conference, Orlando, FL

Kronen, C. & Portnuff, C.D.F. (2018). *Output Levels of Volume-Limiting Headphones.* Poster presented at the 2018 National Hearing Conservation Association Conference, Orlando, FL

Portnuff, C.D.F. (2018). *Safe Use of VEMP Stimuli In the Clinic and Research Lab.* Presentation at the Ultimate Colorado Mid-Winter Meeting, Vail, CO.

Portnuff, C.D.F. & Bell, B. (2017). *Effective Use of Speech-in-Noise Testing in the Clinic.* Presentation at the 2017 Colorado Academy of Audiology Convention, Denver, CO.

Kronen, C. & Portnuff, C.D.F. (2017). *Output Levels of Volume-Limiting Headphones.* Poster presented at the 2017 Colorado Academy of Audiology Convention, Denver, CO.

- Portnuff, C.D.F. (2017). *Prevention of Music-Induced Hearing Loss: Interventions for Musicians (and Music Consumers)*. Presentation at the 2017 AudiologyNow! Conference, Indianapolis, IN
- Portnuff, C.D.F. (2017). *Noise-Induced Hearing Loss for Otolaryngologists*. Presentation at the Ultimate Colorado Mid-Winter Meeting, Vail, CO.
- Portnuff, C. D. F., & Price, D. (2016). *Validating Musicians' Earplug Verification Techniques*. Presentation at the 2016 National Hearing Conservation Association Conference, San Diego, CA
- Portnuff, C. D. F. (2016) *Developing a Tinnitus Evaluation and Management Multidisciplinary Clinic*. Presentation at the Ultimate Colorado Mid-Winter Meeting, Vail, CO.
- Portnuff, C.D.F. (2015). *Assessing MP3 Player Use in the Clinic: New Measurement Techniques*. Oral seminar presentation at the 2015 ASHA Convention, Denver, CO
- Lewis, L., Portnuff, C., Claycomb, S., Elam, S., & Gabbard, S. (2015). *Providing optimal access to language for preschool children through classroom support and remote microphone systems*. Poster at the 14th Annual Early Hearing Detection and Intervention Meeting, Louisville, KY.
- Moore, D., Gabbard, S. A., Couch, H. A., & Portnuff, C. (2015). *Marion Downs Center Teen Day Conference – Student Perceptions and Outcomes*. Poster at the 14th Annual Early Hearing Detection and Intervention Meeting, Louisville, KY.
- Portnuff, C. D. F. (2015). *Update on CROS for SSD*. Presentation at the Ultimate Colorado Mid-Winter Otolaryngology-Audiology Meeting, Vail, CO
- Portnuff, C. D. F. (2014). *Relationships Between Real-World Usage of Portable Listening Devices and Attitudes Toward MIHL*. Presentation at the 2014 National Hearing Conservation Association Conference, Las Vegas, NV
- Portnuff, C. D. F. (2014). *MP3 Players and Hearing Loss*. Presentation at the Ultimate Colorado Mid-Winter Otolaryngology-Audiology Meeting, Vail, CO
- Portnuff, C. D. F., Fligor, B. J., & Arehart, K. H. (2012). *New measurement techniques for portable listening devices*. Presentation at the Audio Engineering Society 47th Conference on Music-Induced Hearing Disorders, Chicago, IL
- Portnuff, C. D. F., Fligor, B. J., (2012). *Assessing MP3 Player Use in the Clinic: New Measurement Techniques*. Learning Module Presentation at the 2012 AudiologyNow Conference, Boston, MA
- Portnuff, C. D. F. (2012). *Music Induced Hearing Loss: The State of the Science*. Learning Module Presentation at the AudiologyNow Conference, Boston, MA
- Portnuff, C. D. F., Fligor, B. J., & Arehart, K. H (2012). *Noise dosimetry of MP3 Player Use: Real-world exposure monitoring to evaluate risk?* Poster presented at the 2012 Academy Research Conference, a part of the AudiologyNow Conference, Boston, MA.
- Portnuff, C. D. F., Fligor, B. J., (2012). *Risks of NIHL from MP3 Player Use: Assessing Long-Term Dosimetry*. Presentation at the 2012 National Hearing Conservation Association Conference, New Orleans, LA
- Portnuff, C. D. F. & Fligor, B. J., (2011). *Assessing Worker's Use of Portable Listening Devices*. Presentation at the 2011 National Hearing Conservation Association Conference, Mesa, AZ

- Portnuff, C. D. F., Fligor, B. J., (2010). *Assessing Portable Device Use in the Clinic*. Learning Module Presentation at the 2010 AudiologyNow Conference, San Diego, CA
- Portnuff, C. D. F., Arehart, K. H., & Fligor, B. J. (2009). *Teenage MP3 Player Use: A Hazard to Hearing?* Poster presented at the 2009 AudiologyNow Conference, Dallas, TX.
- Portnuff, C. D. F., Arehart, K. H., & Fligor, B. J. (2008). *Teenage MP3 Player Use: A Hazard to Hearing?* Poster presented at the 2008 Colorado Academy of Audiology Convention, Estes Park, CO.
- Portnuff, C. D. F. & Fligor, B. J. (2007). *Output Levels of Portable Digital Music Players*. Poster presented at the 2007 Colorado Academy of Audiology Convention, Estes Park, CO.
- Portnuff, C. D. F. & Fligor, B. J. (2007). *Output Levels of Portable Digital Music Players*. Poster presented at the 2007 American Auditory Society Meeting, Scottsdale, AZ.
- Portnuff, C. D. F. & Fligor, B. J. (2006). *Output Levels of Portable Digital Music Players*. Presentation at the Noise Induced Hearing Loss in Children at Work and at Play Conference, Cincinnati, OH.
- Portnuff, C. D. F., Thomson, V. R., & Yoshinaga-Itano, C. (2006). *Auditory Neuropathy/Dyssynchrony: Incidence, Prevalence and Risk Factors*. Presentation at Colorado Mid-Winter Ski Meeting, An Otolaryngology Update and The Colorado Otology-Audiology Conference, Vail, CO.
- Portnuff, C. D. F., Thomson, V. R., & Yoshinaga-Itano, C. (2005). *Auditory Neuropathy/Dyssynchrony: Incidence, Prevalence and Risk Factors*. Poster presented at the 2005 Colorado Academy of Audiology Conference, Breckenridge, CO.
- Thomson, V. R., Portnuff, C. D. F., & Yoshinaga-Itano, C. (2005). *Auditory Neuropathy/Dysynchrony in Newborn Screening*, Research podium presented at the 2005 American Academy of Audiology Convention, Washington, D.C.

Invited Community Lectures

- Neurology of tinnitus, Neurologic bases of tinnitus treatment*, Presentation for the Denver support group of the American Tinnitus Association, June 2018
- Noise-induced Hearing Loss and Prevention*. Lecture for the Denver chapter of the Hearing Loss Association of America, June 2016
- Sound, Hearing and Hearing Health*. Full-day workshop with hands-on activities for elementary through secondary educators covering noise-induced hearing loss. April 2011, March 2012, October 2012, November 2013
- Anatomy and Physiology of the Auditory System: The Relationships to Tinnitus*. Lecture for the Denver chapter of the Hearing Loss Association of America, August 2013
- Dangerous Decibels Educator Workshop*. Several lectures with hands-on activities for elementary through secondary educators covering noise-induced hearing loss, April 2009, April 2010,

Honors and Awards

- National Hearing Conservation Association, *Michael Beall Threadgill Award*, 2016.
Awarded for service to NHCA.

Grants

University of Colorado, *Gambill Family Award, Beverly Sears Award*, 2010. \$2000 grant

National Hearing Conservation Association, *Student Research Award*, 2008. \$1500 grant.

National Hearing Conservation Association *Student Travel Award*, 2007. \$500 award

American Speech, Language and Hearing Association, *Students Preparing for Future Careers in Academics and Research (SPARC) Award*, 2006. \$1500 grant

Oticon Scholarship for Future Practitioners, 2004. \$500 award

Professional Associations

2016-present Member, Tinnitus Management Subject Matter Expert Work Group, American Board of Audiology

2004-present Colorado Academy of Audiology – Fellow
- 2019: President, Board of Directors
- 2018: President-Elect, Board of Directors

2004-present National Hearing Conservation Association - Member
- 2/13 to present: Chair, Materials Content Review Task Force
- 2/13 to 2/15: Director of Communications
- 2/12 to 2/15: Chair, Task Force on Music-Induced Hearing Disorders
- 1/06 to present: Member, Task Force on Music-Induced Hearing Disorders
- 2/09 to 2/12: Student Member Delegate to the Executive Council
- 10/15: Liaison to ASHA Health Care Economics Committee

2004-present American Academy of Audiology – Fellow
- 2011 to present: Member, Measure Development and Reporting Working Group
- 2009: Program subcommittee member, AudiologyNow conference

2005-2011 American Auditory Society – Student Member

2003-2004 American Speech, Language and Hearing Association – Student member

Community Service

2016-present Special Olympics - Volunteer, Healthy Hearing.

2008-2011 Boulder Community Hospital - El Mante, Mexico Medical Mission
- 2008: Clinical Audiologist
- 2009-2011: Clinical Audiologist, Audiology & Speech Team Lead, responsible for coordinating 6 audiologists and 2 speech-language pathologists to see ~500 patients in a week-long medical mission.

2007-2015 H.E.A.R. Project, Board of Directors
- Non-profit organization providing funds for families of children with hearing loss to purchase hearing aids, cochlear implants, and related audiologic service

Peer-Review

Editorial Board

Annals of Otolology, Rhinology & Laryngology

Ad-hoc Reviewer

Pediatrics

Ear & Hearing

JAAA

JASA

Otolaryngology

International Journal of Audiology

Public Health

Environmental Health & Safety

Canadian J of Speech Path and Audiology

Language, Speech & Hearing Services in the Schools

Canadian Hearing Report

Research Students Mentored

Caleb Kronen, AuD Capstone Project, University of Colorado at Boulder

Madison Graham, AuD Capstone Project, University of Colorado at Boulder

Alexandra Smith, White Plains High School, White Plains New York

Lekha Patel, White Plains High School, White Plains, New York

Miscellaneous Information:

Languages Spoken: English (primary language), French (beginning), Spanish (beginning), American Sign Language (beginning)

Extracurricular Interests

Outside of academia, I enjoy spending time in the outdoors, including hiking, skiing and snowshoeing. I also enjoy cooking and baking with friends and family. When not pursuing research after business hours, I also spend time volunteering with a variety of local non-profit agencies.

References

Clinical References

Stacy Claycomb, Au.D.
Clinical Audiologist
University of Colorado Hospital
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Christine Gerhardt-Jewell, M.A., CCC-A
Audiologist
Hearing Solutions
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Louisville, CO 80027
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Research and Academic References

Kathryn Arehart, Ph.D., CCC-A
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Brian J. Fligor, Sc.D., CCC-A
Director of Diagnostic Audiology, Children's Hospital Boston
Instructor, Department of Otolaryngology, Harvard School of Medicine
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Mentored Research Projects

- 12/06-present *Teenage MP3 Player Use: A Risk to Hearing?*
- A project designed to answer the question “How do teenagers’ chosen listening levels change as a function of background noise level”. The project uses probe microphone measures in a laboratory setting to measure the choices that adolescents make when using MP3 players. It also includes a survey of listening habits.
 - Project under the mentorship of Kathryn Arehart, Ph.D., and Brian Fligor, Sc.D., in partial fulfillment of the University of Colorado Ph.D. comprehensive examination.
- 8/07-2/08 *Hearing Aids And Related Therapy: The Relationship Of Access To Socioeconomic Status*
- A parent survey addressing how parents obtain and pay for hearing aids, therapy services, and how choices in these are affected by the costs.
 - Project under the mentorship of Stefanie Mollborn, Ph.D (Sociology) and Sandra Gabbard, Ph.D., designed to support ongoing legislative action in Colorado to mandate insurance coverage of hearing aids for children.
- 1/06–9/07 *Output Levels of Portable Digital Music Players*
- Using KEMAR measurements, determined the output levels of commercially available MP3 players, and created recommendations for safe listening levels.
 - Project completed under the mentorship of Brian Fligor, Sc.D., Director of Diagnostic Audiology at Children’s Hospital Boston and Instructor of Otolaryngology at Harvard Medical School.
- 9/06 – 12/06 *Research Practicum*, Hearing Research Lab, University of Colorado at Boulder
- Designed and built a sound-field laboratory for speech-in-noise research
 - Designed and implemented a Matlab interface for probe microphone recording
- 9/04-3/05 *Auditory Neuropathy/Dyssynchrony in Newborn Screening*
- An epidemiologic study to determine the incidence and prevalence of Auditory Neuropathy/Dyssynchrony in newborns, using the State of Colorado Department of Public Health and Environment database.
 - Project completed in collaboration with Vickie Thomson, Ph.D.. and Christine Yoshinaga-Itano, Ph.D., Professor of Speech, Language and Hearing Sciences, University of Colorado at Boulder.

Clinical Practicum Experiences:

- 6/07-12/07 Marion Downs Hearing Center, University of Colorado Hospital, Aurora, CO
- 5/08-6/08 - 4th Year Externship, full time
- Pediatric focus, with some experience in cochlear implants and vestibular evaluation
 - 60% adult, 40% Pediatric
- 1/08-5/08 Audiology, The Children’s Hospital, Aurora, CO
- 4th Year Externship, full time

- Pediatric evaluation and amplification, including electrophysiologic testing.
 - 100% pediatric
- 1/07-5/07 Otolaryngology, Boulder Medical Center, Boulder, CO
- Audiologic evaluation, hearing aid fitting in a busy ENT practice
 - 16 hours per week, 85% adult, 15% pediatric
- 9/06 - 12/06 Student Services, Brighton Public School District, Brighton, CO
- Audiologic evaluation, assistive technology and coordinating screening program
 - 16 hours per week, 100% pediatric
- 6/06 - 8/06 Audiology, Exempla Lutheran Medical Center, Wheat Ridge, CO
- Audiologic evaluation and hearing aid fitting
 - 20% patients with developmental disabilities.
 - 16 hours per week, 85% adult, 15% pediatric
- 1/06 - 5/06 Otolaryngology Department, The Children's Hospital, Denver, CO
- Audiologic evaluation of children in a busy hospital ENT department
 - 4 hours per week, 100% pediatric
- 1/05 - 5/06 University of Colorado Speech, Language and Hearing Center
- Audiologic evaluation and hearing aid fitting
 - 8 hours per week, 85% adults, 15% pediatric