

King Chung, Ph.D., CCC-A

amplificationrocks@yahoo.com

https://www.researchgate.net/profile/King_Chung/

<https://www.linkedin.com/in/kingchung>

<https://orcid.org/0000-0001-5052-584X>

Education

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|-----------|------------------------------------------------------------------------------------|
| 1995-2001 | Ph.D., Audiology, Northwestern University, Evanston, IL |
| 1992-1994 | M.A., Audiology, University of Memphis, Memphis, TN |
| 1990-1992 | B. S., Communicative Disorders, Utah State University, Logan, UT
Magna Cum Laud |

Work Experiences

- Professor*, Northern Illinois University, School of Allied Health & Communicative Disorders, Aug. 2017 – present.
- Audiology Program Director*, Northern Illinois University, School of Allied Health & Communication Disorders, Aug. 2014 – present.
- Audiology Program Coordinator*, Northern Illinois University, School of Allied Health & Communication Disorders, Aug. 2013 – 2019.
- Associate Professor*, Northern Illinois University, School of Allied Health & Communicative Disorders, Aug. 2011 – Jul. 2017.
- Assistant Professor*, Northern Illinois University, School of Allied Health & Communicative Disorders, Aug. 2008 – Jul. 2011.
- Visiting Scholar*, Northern Illinois University, School of Allied Health & Communicative Disorders, Jun. – Aug. 2008.
- Assistant Professor*, Purdue University, Department of Audiology and Speech Sciences, Aug. 2003 – May 2008.
- Director*, Research Division, Lexington School/Center for the Deaf, Jul. 2001 – Jul. 2003.
- Audiology Consultant*, DynaSound, Hong Kong (an Oticon distributor), Nov. – Dec. 1998.
- Audiologist*, ReSound (Asia) Ltd., Sept. 1994 – Aug., 1995; Jun. – Sept., 1996.

Honors & Awards

AAA Humanitarian Award (2020). American Academy of Audiology.

Excellence in Service Award (2020). College of Human and Health Sciences, Northern Illinois University.

Fulbright Scholar Award (2019). Enhancing Hearing Services in Brazil. Department of State.

Fulbright Regional Travel Award (2019). Lecturing and Developing Collaboration in Argentina. Department of State

Scholar Award (2019). American Academy of Audiology.

ASHA Award for Continuing Education (2018) American Speech-Language and Hearing Association

Excellence in Research Award (2013). College of Human and Health Sciences, Northern Illinois University

New Investigator Research Award (2004-5). Application of Adaptive Hearing Aid Directional Microphones to Enhance Cochlear Implants. American Academy of Audiology.

Rupley Scholar, House Ear Institute, Jun. – Sept. 1997.

Patents

Chung, K. (Utility Patent Application, 2022). A Universal Method to Turn Any Portable Electronic Devices and Sound Transducers into Personalized Environmental Sound Modifiers. Filed provisional patent on May 7, 2021.

Chung, K. (2021). [Portable Calibration System for Audio Equipment and Devices](#). US Patent No. 11,095,996. Filed Nov., 8, 2018.

Chung, K. & Zeng, F.G. (2015). [Enhancing cochlear implants with hearing aid signal processing technologies](#). * US Patent No. 8,942,815. Filed Mar. 19, 2004.

Certification and Licenses

Illinois State License in Audiology, Illinois Department of Financial and Professional Regulation. 2017 – present.

Clinical Competency Certificate in Audiology, American Speech-Language and Hearing Association, 1996 – present.

Fellow of American Academy of Audiology, American Academy of Audiology Board Certification, 2003 – 2017

Illinois State License in Audiology, State of Illinois, 2017 - present

New York State License in Audiology, the University of the State of New York, 2002 – 2004, 2007 – 2008, & 2016 – present.

New York Hearing Aid License, New York Department of State, 2003 – 2004.

Indiana State License in Audiology, Indiana Professional Licensing Agency, 2004 – 2007.

Indiana Hearing Aid Dispensing License, Indiana Professional Licensing Agency, 2004 – 2007.

Publications

Peer-Reviewed Articles

- Chung, K.** (2023). [Calibration Matters: II. Ambient Noise Level Measurements](#). Journal of Communication Disorders.
- Chung, K.** (2023). [Calibration Matters: I. Sound Level Meter and Calibration Basics](#). Journal of Communication Disorders.
- De Farias, T.R.F., Nunes, A.D.da S., De Barros, V.V., Xavier, A.R. da S., Freire, P.A., Arrais, R.F., Barbosa, I.R., **Chung, K.**, Balen, S.A. (2021). [Programa Saúde Auditiva do Escolar: Uma integração entre pesquisa e extensão](#). *Revista Brasileira de Extensão Universitária*, 12(2), 135-146.
- Mealings, K., Harkus, S., Flesher, B., Meyer, A., **Chung, K.** & Dillon, H. (2020). [Detection of hearing problems in Aboriginal & Torres Strait Islander children: A comparison between clinician-administered and self-administrated hearing tests](#). *International Journal of Audiology*, 59(6):455-463.
- Chung, K.** (2020). [Perceived sound quality of different signal processing algorithms by cochlear implant listeners in real-world acoustic environments](#). *Journal of Communication Disorders*, 83, 1-15.
- Mealings, K., Harkus, Samantha, Hwang, J., Fragoso, J., **Chung, K.** & Dillon, H. (2020). [Hearing loss and speech understanding in noise in Aboriginal and Torres Strait Islander children from different locations and varying socio-educational advantage](#). *International Journal of Pediatric Otorhinolaryngology*, 129, 109741.
- Chung, K.** (2020). [Improving cochlear implant performance in wind through spectral masking reduction: A multi-microphone and multichannel approach](#). *Ear & Hearing*, 41(2), 420-432.
- Chen, H.S., Chiu, W.C., Wang, F., Chang, Y-P, Liu, S.Y., Lin, P-Y. & **Chung, K.** (2014). [Hearing health status of students with special needs in Taiwan](#). *International Journal of Pediatric Otorhinolaryngology*, 78, 1677-1685.
- Chung, K.** (2013). [Effects of venting on wind noise levels measured at the ear drum](#). *Ear & Hearing*, 34(4), 470-481.
- Chung, K.**, Nelson, LA, & Teske, M. (2012). [Noise reduction technologies implemented in head-worn preprocessors for improving cochlear implant performance in reverberant noise fields](#). *Hearing Research*, 291(1-2), 41-51.
- Chung, K.** (2012). [Comparisons of spectral characteristics of wind noise between omnidirectional and directional microphones](#). *Journal of Acoustical Society of America*, 131(6), 4508-4517.
- Chung, K.** (2012). [Wind noise in hearing aids: II. Effects of microphone directionality](#). *International Journal of Audiology*, 51(1), 29-42.

- Chung, K.** (2012). [Wind noise in hearing aids: I. Effects of wide dynamic range compression and modulation-based noise reduction algorithms](#). *International Journal of Audiology*, 51(1), 16-28.
- Chung, K.,** & McKibben, N. (2011). [Microphone Directionality, Pre-Emphasis Filter, and Wind Noise in Cochlear Implants](#). *Journal of American Academy of Audiology*, 22(9), 586-600.
- Chung, K.,** McKibben, N., & Mongeau, L. (2010). [Wind noise in hearing aids with directional and omnidirectional microphones: polar characteristics of custom hearing aids](#). *Journal of Acoustical Society of America*, 127(4), 2529-2542.
- Chung, K.,** Tufts, J., & Nelson, L.A. (2009). [Modulation-based digital noise reduction for application to hearing protectors to reduce overall noise level and maintain speech intelligibility](#). *Human Factors*, 51(1), 78-89.
- Chung, K.,** Mongeau, L., & McKibben, N. (2009). [Wind noise in hearing aids with directional and omnidirectional microphones: polar characteristics of behind-the-ear hearing aids](#). *Journal of Acoustical Society of America*, 125(4):2243-59.
- Chung, K.** & Zeng, F-G. (2009). [Using adaptive directional microphones to enhance cochlear implant performance](#). *Hearing Research*, 250, 27-37.
- Chung, K.,** Neuman, A. & Higgins, M. (2008). [Effects of in-the-ear microphone directionality on sound direction identification](#). *Journal of Acoustical Society America*, 123(4), 2264-2275.
- Chung, K.** (2007). [Effective compression and noise reduction configurations for hearing protectors](#). *Journal of Acoustical Society of America*, 121(2), 1090-1101.
- Wagoner, L., McGlothlin, J., **Chung, K.,** Strickland, E., Zimmerman, N. & Carlson, G. (2007). [Evaluation of noise attenuation and verbal communication capabilities using three ear insert hearing protection systems among airport maintenance personnel](#). *Journal of Occupational and Environmental Hygiene*, 4, 114-122.
- Chung, K.,** Killion, M.C. & Christensen, L.A. (2007). [Ranking hearing aid input-output functions for understanding low-level, conversational and high-level speech in multi-talker babble](#). *Journal of Speech Language Hearing Research*, 50, 1-19.
- Chung, K.,** Zeng, F-G & Acker, K.N. (2006). [Effects of directional microphone and adaptive multi-channel noise reduction algorithm on cochlear implant performance](#). *Journal of Acoustical Society of America*, 120(4), 2216-2227.
- Chung, K.** (2004). [Challenges and recent developments in hearing aids Part II: Feedback and occlusion effect reduction strategies, laser shell manufacturing processes and other signal processing technologies](#). *Trends in Amplification*, 8(4), 125-64.
- Chung, K.** (2004). [Challenges and recent developments in hearing aids Part I: Speech understanding in noise, microphone technologies and noise reduction algorithms](#). *Trends in Amplification*, 8(3), 83-124.
- Chung, K.,** Zeng, F-G & Waltzman, S. (2004). [Using hearing aid directional microphones and noise reduction algorithms to enhance cochlear implant performance](#). *Acoustical Research Letters Online*, 5(2), 56-61.

Proceedings and Non-Peer Reviewed Articles

- Chung, K.** & the Heart of Hearing Team (2022). [Significant hearing loss found in Ukrainian refugees](#). Hearing Journal.
- Chung, K.** (2022). Fulbright: [Opportunities for international academic exchange for audiologists and SLPs](#). ASHA LeaderLive.
- ***Chung, K.** (2021). [A goodwill ambassador to Brazil](#). Fulbright Association.
**Selected as 1 of 68 stories out of >350 submissions to be published in the commemorative publication "Fulbright Stories since 1946" (p90).*
- Cavalcanti, H.G., Melo, L.P.F., Morais, A.S., Silva, A.B.V. & **Chung, K.** (2020). [Saude Auditiva de Escolares \(Hearing health of School Children\)](#). In Cavalcanti & Melo edits. UFPB Publications.
- Chung, K.** (2020). [Strategies to reduce wind noise interference in hearing devices](#). Hearing Journal. 73(7), 10, 12, 13.
- Dantas, P.G.A.L., Morais, A.S., Veiga, A.B., **Chung, K.** & Cavalcanti, H.G. (2020). Prevalence of cerumen in preschool children in the city of João Pessoa. Medeiros Institute for Advanced Education 2020.
- Chung, K.** (2020). [Fulbright for international teaching, learning, and research](#). Hearing Journal, 73(3), 34, 36.
- O'Boyle, L. & **Chung, K.** (2019). [A hearing report from the Dominican Republic](#). Audiology Today.
- Chung, K.** (2018). [Theories on hearing-cognition functions](#). Hearing Journal, 71(12), 10-12.
- Chung, K.** (2017). [Musical and brain training. How previous and current trainings enhance cognition?](#) Hearing Journal, 70(10):8-9.
- Chung, K.** (2017). [Hearing health status and service needs on school-aged children: A multi-country comparison](#). Proceedings of 6th Annual Global Healthcare Conference, 164-7.
- Chung, K.**, Cheyney, M., Newall, J., Le, L. (2017). [A hearing report from Australia](#). Audiology Today, Sept/Oct, 54-62.
- Chung, K.** (2017). [Amplification, auditory training for hearing aid, cochlear implant users](#). Hearing Journal, Jan, 8-9.
- Chung, K.** (2016). [Does amplification prevent cognitive decline?](#) Hearing Journal, 69(10), 34-6.
- Faire, R.M., Ismail, F., Sterkens, J., Thunder, T. & **Chung, K.** (2016). [Effects of hearing loop systems on speech understanding and sound quality of normal-hearing listeners and hearing aid users](#). Hearing Review, 23(8), 28-42.
- Chung, K.** (2016). [A hearing report from Cambodia](#). Audiology Today, Mar/Apr, 62-73.
- Chung, K.** (2015 *Invited*). [Hearing aid use, cognitive function, and proven benefits](#). Hearing Journal, Hearing Loss Magazine, Oct/Nov, 18, 20.
- Chung, K.** (2015). [Making room in the brain for speech understanding](#). Hearing Journal, 68(1), p32-33.
- Chung, K.** (2014). [Frequency compression: New research yields clues for patient selection](#). Hearing Journal, 67(1), 14-16.

- Chung, K.**, Ma, B.Y., Gui, M.W.P., Wang, S.F. & Xu, F. (2014). [A hearing report from China](#). *Audiology Today*, May/Jun, 42-53.
- Chung, K.** (2014). [First person: Our mission to create a worldwide web of humanitarian research and service](#). *Hearing Journal*.
- Chung, K.**, Ferrari, D.V., Franca, M.L., Caldana, M.B., Lopes, A.C. (2013). [A hearing report from Brazil](#). *Audiology Today*, 2013(1), 26-39.
- Chung, K.** (2013). [Cognitive function, speech reception, and hearing aid fitting](#). *Hearing Journal*, 66(1), 22-23.
- Chung, K.**, Kam, A., Chan, J., Wong, L.L. (2012). [A hearing report from Hong Kong](#). *Audiology Today*, 2012(1), 44-51.
- Chung, K.** (2012). [What do we really know about hearing loss and cognitive function?](#) *Hearing Journal*, 65(1), 18-19.
- Chung, K.**, Chen, H.C., Liu, S.-Y., Wang, N.M., Chang, Y-P., Lin, P.Y., Chen, W-C., Guan, M-L. (2010). [A hearing report from Taiwan](#). *Audiology Today*, 2010(6), 28-37.
- Chung, K.** (2010, Invited). [Reducing noise interference: Strategies to enhance hearing aid performance](#). *ASHA Leader*, Apr. 6, 10-13.
- Chung, K.**, Zeng, F-G & Waltzman, S. (2004). [Utilizing advanced hearing aid technologies as pre-processors to enhance cochlear implant performance](#). *The Proceedings of the Fourth Asian-Pacific Symposium on Cochlear Implant and Related Sciences, Cochlear Implant International*, 5(1, suppl. 1), 192-195.
- Chung, K.**, Zeng, F-G, Waltzman, S. (2004). [Utilizing hearing aid directional microphones and noise reduction algorithms to improve speech understanding and listening preferences of cochlear implant users](#). *International Congress Series*. Nov2004, Vol. 1273, p89-92.
- Killion, M.C., Schulein, R., Christensen, L., Fabry, D., Revit, L., Niquette, P. & **Chung, K.** (1998). [Real-world performance of an ITE directional microphone](#). *Hearing Journal*, 51(4), 24-38.

Presentations

Invited Presentations

- Ferrari, D. & **Chung, K.** (2022, May). Perspectives of Innovation and Technology in Audiology. Seminar of Innovation and Technology in Audiology, Online, Brazil.
- Chung, K.** (2022, May). Technological Applications in Hearing Screening: Global Access to Hearing Health. Seminar of Innovation and Technology in Audiology, Online, Brazil.
- *Weist, D., M. Bradford, **Chung, K.**, Ostlie, S., Tubbs, J. & Westrick, T. (2022, Apr.). Grand Rounds: Amplification. American Academy of Audiology Convention. St. Louis, Missouri.
**The session was rated 3.89 out of 4.*
- Yoshinaga-Itano, C. Carr, G., Davis, A.C., Ching, T.Y.C., **Chung, K.**, Clark, J.L., Harkus, S., Kuan, M-L, Garg, S., Balen, S.A., O’Leary, S. (2022, Jan.). CGHH Hearing Pathways Working Group: Recommendations for Readiness Assessment and Development of Early Hearing Detection and Intervention Programs. Coalition for Global Hearing Health Conference. Online, USA.

- Chung, K.** (2021, Aug.). The Many Faces of Humanitarian Research & Services: What you can do during the Pandemic. 27th Congress of Speech, Language, and Audiology at Bauru. Online, Brazil.
- Chung, K.** (2020, Nov.). Strategies to Reduce the Occlusion Effect. National Kuoshiong Normal University, Taiwan.
- Chung, K.** (2020, Nov.). Cochlear Dead Regions and Amplification Strategies. National Kuoshiong Normal University, Taiwan.
- Chung, K.** (2020, Nov.). eHealth in the Digital Age. National Kuoshiong Normal University, Taiwan.
- Chung, K.** (2020, Nov.). Binaural Hearing and Binaural Interference. Chung Shan Medical University, Taiwan.
- Chung, K.** (2020, Nov.). Directional Microphones. Sinia Science Institute, Taiwan.
- Chung, K.** (2020, Nov.). Always Binaural? National Women's League Hearing Health Foundation, Taiwan.
- Chung, K.** (2020, Oct.). CGHH Guidance Committee on Early Detection. 2020 CGHH Conference. Online.
- Chung, K.** (2020, Feb.). Afterthoughts of a Fulbright Trip to Brazil. Ear Day. Rush University, Chicago, IL.
- Chung, K.** (2019, Oct.). Cochlear Dead Regions and Amplification Strategies. Federal University da Paraiba, Joao Pesseo, Brazil.
- Chung, K.** (2019, Sept.). Automatic Hearing Tests and Cognitive Issues. Mutualidad Argentina de Hipoacusicos, Buenos Aires, Argentina.
- Chung, K.** (2019, Sept.). The Occlusion Effect and Amplification Strategies. Mutualidad Argentina de Hipoacusicos, Buenos Aires, Argentina.
- Chung, K.** (2019, Sept.). Humanitarian Research and Service Opportunities Around the World. Mutualidad Argentina de Hipoacusicos, Buenos Aires, Argentina.
- Chung, K.** (2019, Sept.). The Ins and Outs of Directional Microphones. Mutualidad Argentina de Hipoacusicos, Buenos Aires, Argentina.
- Chung, K.** (2019, Sept.). Open Fit Hearing Aids and Strategies to Reduce the Occlusion Effect. Federal University of Rio Grande do Norte. Natal, Brazil.
- Chung, K.** (2019, Sept.). Binaural Interference and Hearing Aid Fitting. Federal University of Rio Grande do Norte. Natal, Brazil.
- Chung, K.** (2019, Sept.). Social Impact of Research. Federal University da Paraiba, Joao Pesseo, Brazil.
- Chung, K.** (2019, Aug.). Humanitarian Research and Services: The NIU Experience. Federal University of Rio Grande do Norte. Natal, Brazil.
- Chung, K.** (2019, Aug.). Humanitarian Research and Service Planning Strategies. University of Sao Paulo, Bauru. Bauru, Brazil.

- Chung, K.** (2019, Aug. *Keynote Speaker*). Humanitarian Research and Hearing Health Services Around the World. 26th Congress of Speech, Language, and Audiology at Bauru. Bauru, Brazil.
- Chung, K.** (2019, Jul.). Wind Noise and Reduction Strategies: A Day in the Hat of an Engineer. University of Sao Paulo, Bauru. Bauru, Brazil.
- Chung, K.** (2019, Jul.). The Ins and Outs of Directional Microphones. University of Sao Paulo, Bauru. Professional Education Series. Bauru, Brazil.
- Chung, K.** (2019, Mar.). Hearing Service Needs around the World. Los Minas Hospital, Santo Domingo, the Dominican Republic.
- Chung, K.** (2018, Feb.). The Pursuit of Better Hearing Health Around the World. Rush University, Chicago.
- Chung, K.** (2017, Apr.). Humanitarian Service 101. Rush University, Chicago, Illinois.
- Chung, K.** (2016, Aug.). Hearing Health Care Needs of Aboriginal School Children. Hearing Health Forum, Cairns, Australia.
- Chung, K.** (2015, Aug.). Effectiveness of Transient Noise Reduction Algorithms Marketed by Three Hearing Aid Manufacturers. Hearing Devices, Birmingham, United Kingdom
- Chung, K.** (2015, Aug.). Hearing Status of Underserved and Unserved Populations in Five Different Governing Regions. Hearing Devices, Birmingham, United Kingdom.
- Chung, K.** (2014, Jun.). The Pursuit of Better Hearing. National Acoustics Laboratory, Australia.
- Chung, K.** (2014, Jun.). Noise Reduction Strategies for Cochlear Implants, Cochlear Corporations, Sydney, Australia
- Chung, K.** (2014, Jun.). Otoacoustic Emissions, Bandung University, Jakarta, Indonesia
- Chung, K.** (2014, Jun.). Principles of Audiological Calibration, Bandung University, Indonesia
- Chung, K.** (2014, Jun.). Hearing Aid Technologies. All Ears Cambodia, Phnom Penh, Cambodia
- Chung, K.** (2013, Nov.). A Composite Sound Quality Rating Paradigm for Evaluating Signal Processing Technologies in Real World Environments. American Speech-Language-Hearing Association Convention, Chicago, Illinois.
- Chung, K.** (2013, May). Introduction to Hearing Aids. Department of Health, Shandong, China.
- Chung, K.** (2011, Mar.). Effects of Digital Signal Processing Algorithms on Wind Noise in Hearing Aids. Widex Lecture Series, Hong Kong, China.
- Chung, K.** (2010, Nov.). NIU Study Abroad Research Humanitarian Trip to Taiwan. American Speech-Language-Hearing Association, Philadelphia, Pennsylvania.
- Chung, K.** (2010, Jun.). Study Abroad Humanitarian Trip to Taiwan. San Diego State University 2010 China Study Abroad Program in Shanghai, China.
- Chung, K.** (2009, Oct.). Advanced Digital Signal Processing Strategies to Enhance Cochlear Implant Performance. Hong Kong Society of Audiology, Hong Kong, China.
- Chung, K.** (2009, Oct.). Occlusion Effect and Wind Noise Reduction. National Kaohsiung Normal School, Kaohsiung, Taiwan.

- Chung, K.** (2009, Oct.) Digital Hearing Aids, Directional Microphones, and Noise Reduction Algorithms. Speech-Language-Hearing Association of Taiwan, Kaohsiung, Taiwan.
- Chung, K.** (2009, Sept.). Advanced Digital Signal Processing Strategies to Enhance Cochlear Implant Performance. National Taipei College of Nursing, Taipei, Taiwan.
- Chung, K.** (2009, Sept.). Feedback, Occlusion Effect, and Wind Noise Reduction. Chun Shan Medical University, Taichung, Taiwan.
- Chung, K.** (2009, Jan.). Parallels Between Cochlear Implants and Hearing Aids for Preprocessing: Noise Reduction and Wind Noise Suppression. Convergence of HA and CI Technology Workshop, Miami Beach, FL.
- Chung, K.** (2005, Nov.). The Application of Hearing Aid Technologies to Enhance Other Hearing Devices. Hong Kong Society of Audiology, Hong Kong, China.
- Chung, K.** (1999, Oct.). Comparisons Between Analog and Digital Hearing Aids. Amplification Technologies Workshop, Taipei, Taiwan.
- Chung, K.** (1999, Oct.). Compression Characteristics. Hearing Aid Technologies Workshop, Taipei, Taiwan.
- Chung, K.** (1999, Oct.). Applications of Directional Microphones and Assistive Listening Devices. Hearing Aid Technologies Workshop, Taipei, Taiwan.
- Chung, K.** (1999, Oct.). Hearing Aid Fitting and Fine-tuning. Hearing Aid Technologies Workshop, Kouhsiung, Taiwan.
- Chung, K.** (1999, Oct.). Comparisons Between Analog and Digital Hearing Aids. Amplification Technologies Workshop, Kouhsiung, Taiwan.
- Chung, K.** (1999, Oct.). Compression Characteristics. Hearing Aid Technologies Workshop, Kouhsiung, Taiwan.
- Chung, K.** (1999, Oct.). Applications of Directional Microphones and Assistive Listening Devices. Hearing Aid Technologies Workshop, Kouhsiung, Taiwan.
- Chung, K.** (1999, Oct.). Hearing Aid Fitting and Fine-tuning. Hearing Aid Technologies Workshop, Kouhsiung, Taiwan.

Peer-Reviewed Podium Presentations

- Chung, K.,** Tremper, J. & Patel, K. (2022, Apr.). Efficacy of a Free App for Testing the Hearing Sensitivity of Young and Middle-Aged Adults. World Congress of Audiology, Warsaw, Poland.
- Chung, K.,** Ferrari, D.V., Balen, S.A., Gottschalck, H., Lopes, N.B.F., Caldana, M.L., Mondelli, M.F.C.G., Speri, M.R.B. & Lopes, A.C. (2022, Apr.). Is there a need for country/race-based average RECDs? World Congress of Audiology, Warsaw, Poland.
- Yoshinaga-Itano, C., Carr, G. Davis, A. Ching, TYC, **Chung, K.,** Clark, J.L., Harkus, S. Kuan, M.L., Garg, S., Balen, S. A., O’Leary, S. (2022, Apr.). Learning Modules: Recommendations for Readiness Assessment and Development of EHDI Programs. American Academy of Audiology 2022, St. Louis, Missouri.

- Chung, K.** (2022, Apr.). Learning Modules: Wind Noise Characteristics and Reduction Strategies in Hearing Aids and Cochlear Implants. American Academy of Audiology 2022, St. Louis, Missouri.
- Chung, K.** (2019, Oct.). Implications of Tympanometry Data of Brazilian Children for Hearing Aid Fitting. 2019 Coalition for Global Hearing Health Meeting, Phoenix, Arizona.
- Chung, K.,** Ferrari, D. & Lopez, A. (2018, Oct.). Is WHO underestimating the number of children with hearing loss in the world? Coliation for Global Hearing Health. Cape Town, South Africa.
- *Chung, K.,** Hwang, J., O’Boyle, L., S. Chen, Xavier, Morgan, S. & ScheckLong, D. (2018, Oct.) Cognitive Functions of Older Adults and their Ability to Complete Different Automatic Hearing Screening Applications. World Congress of Audiology. Cape Town, South Africa.
**The abstract was ranked top 14 in the conference and presented at the Winner’s Session*
- Chung, K.,** Anderson, K., Combs, K. & Cheyney, M. (2017, Oct.). Comparison of Distortion-Product Otoacoustic Emissions between Cambodian and United States Children. Coalition for Global Hearirng Health. Miami, Florida.
- Chung, K.** (2017, Jul.). Hearing Health Status and Service Needs on School-Aged Children: A Multi-Country Comparison. 6th Annual Global Healthcare Conference. Singapore.
- Chung, K. &** Cheyney, M. (2016, Oct.). What Are We Missing? Coalition for Global Hearirng Health. The Philippines.
- Chung, K. &** Billingsly, D. (2015, Oct.). Instant Earmold Options. Coalition for Global Hearirng Health. Washington, Distric of Columbia.
- Chung, K.** (2015, Jun.). Meeting Hearing Healthcare Demands Through Increasing Awareness And Training. The 3rd Congress of European ORL-HNS, Prague, Czech Republic.
- Chung, K.** (2014, Apr.). Wind Noise Characteristics and Reduction Strategies. AudiologyNow! Orlando, Florida.
- Chung, K. &** Teske, M. (2014, Mar.). Microphone Combination To Improve Cochlear Implant Performance In Windy Environments. American Auditory Society, Scottsdale, Arizona.
- Chung, K. &** Nie, K.B. (2013, Jun.). Evidence-Based Wind Noise Reduction Strategies. 11th European Federation of Audiology Societies Congress, Budapest, Hungry.
- Chung, K. &** Chen, H.S. (2013, May). A Worldwide Web of University-Based Humanitarian Research and Service Program. Coalition for Global Hearing Health 2013, Nashville, Tennessee.
- Chung, K.** (2013, Mar.). Application of Wind Noise Temporal Characteristics to Hearing Aid Design. American Auditory Society 2013 Meeting, Scottsdale, Arizona.
- Chung, K.** (2013, Feb.). A Day In The Hat of a Hearing Aid Design Engineer. Illinois Academy of Audiology Conference, Chicago, Illinois.
- Chung, K.** (2012, Mar.). Effects of Microphone Directionality on Spectral Characteristics of Wind Noise. American Auditory Society 2012 Meeting, Scottsdale, Arizona.
- Chung, K.,** Chen, H.S., Guan, M.L. (2011, Sept.). Prevalence of Hearing Loss Among Children With Special Needs. Global Health Coalition Conference. Los Angeles, California.

- Chung, K.** (2011, Apr.). Effects of Venting and Directionality on Wind Noise. *AudiologyNow!* 2011, Chicago, Illinois.
- Chung, K.** (2010, Apr.). Microphone Mode and Wind Noise Reduction for Cochlear Implants. International Congress of Audiology, Sao Paulo, Brazil.
- Chung, K.** (2009, Apr.). Effects of Signal Processing Algorithms on Wind Noise in Hearing Aids. *AudiologyNow!* 2009, Dallas, Texas.
- Chung, K.** (2009, Mar.). Cochlear Implant Performance in Wind Noise with Temporal Amplitude Variations. American Auditory Society 2009 Meeting, Scottsdale, Arizona.
- Chung, K., McKibben, N., Mongeau, L., & Nie, K-B.** (2008, Mar.). Characteristics of Wind Noise in Hearing Aids. American Auditory Society 2008 Meeting, Scottsdale, Arizona.
- Chung, K., Zeng, F-G., & Acker, K.** (2005, Nov.). Effects of Advanced Hearing Aid Technologies on Cochlear Implant Performance. Asia Pacific Symposium on Cochlear Implant and Related Sciences, Hong Kong, China.
- Chung, K. & Acker, K.** (2005, Apr.). A Smart Hearing Protector to Maximize Attenuation and Speech Understanding. American Auditory Society 2004 Meeting, Scottsdale, Arizona.
- Chung, K. & Acker, K.** (2005, Apr.). Advanced Hearing Aid Technologies to Create Smart Hearing Protectors. 2005 American Academy of Audiology Convention, Washington, District of Columbia.
- Chung, K., Zeng, F-G. & Waltzman, S.** (2004, May). Using Advanced Hearing Aid Technologies to Enhance Cochlear Implants. European Symposium on Pediatric Cochlear Implants. Geneva, Switzerland.
- Chung, K., Zeng, F-G. & Waltzman, S.** (2004, Apr.). Advanced Hearing Aid Technologies to Enhance Cochlear Implants. 2004 American Academy of Audiology Convention, Salt Lake City, Utah.
- Chung, K., Zeng, F-G. & Waltzman, S.** (2004, Mar.). Hearing Aid Directional Microphones and Noise-Reduction Algorithms Enhanced Cochlear Implants. American Auditory Society 2004 Meeting, Scottsdale, Arizona.
- Chung, K., Zeng, F-G. & Waltzman, S.** (2003, Dec.). Utilizing Advanced Hearing Aid Technologies as Pre-Processors To Enhance Cochlear Implant Performance. Asian Pacific Symposium on Cochlear Implants and Related Sciences, Taipei, Taiwan.
- Chung, K. & Neuman, A.** (2003, Mar.). Measurements of In-Situ Hearing Aid Directionality in a Real Room. American Auditory Society Meeting, Scottsdale, Arizona.
- Neuman, A., **Chung, K., Steele, M. & Bakke, M.** (2002, Aug.). A Newly Developed In-Situ Measurement System: The Directional Hearing Aid Analyzer. International Hearing Aid Conference, Lake Tahoe, California.
- Chung, K., Christensen, L. & Killion, M.C.** (2001, Apr.). Effects of Input-Output Function on Speech Recognition and Preference Ratings. American Academy of Audiology Convention, Philadelphia, Pennsylvania.

Peer-reviewed Poster Presentations

- Chung, K.**, Tremper, J. & Patel, K. (2022, Apr.). The Efficacy of a Free iOS Hearing Test App. American Academy of Audiology 2022, St. Louis, Missouri.
- Chung, K.**, Patel, K. & Tremper, J. (2022, Jan). A Free iOS Hearing Test App (Aud•It) for Screening the Hearing of Young and Older Adults. Coalition for Global Hearing Health Virtual Conference. Online.
- Nunes, A.D.S., Farias, T.R.F., Silva, A.R.X., Barros, V.V., Barbosa, I.R., Speri, M.R.B., **Chung, K.** & Balen, S.A. Ocorrência de zumbido e fatores associados em escolares do ensino fundamental.. In: 35 Encontro Internacional de Audiologia, 2020, São Paulo. Anais do 35 Encontro Internacional de Audiologia. São Paulo: Academia Brasileira de Audiologia, 2020.
- Balen, S.A., Vasconcellos, V., Nunes, A.D.S., Ruth, T., Roberta, A. & **Chung, K.** (2020, Apr.) Hearing Status of Students from a Metropolitan Area in Northeastern Brazil. World Congress of Audiology, Warsaw, Poland.
- Chung, K.**, Ferrari, D., Balen, S.A., Gottschalck, H., Lopes, N.B.F. & Caldana, M.L. (2020, Mar.) Factors for Health Disparities and Prevention Strategies. American Auditory Society, Scottsdale, Arizona.
- Chung, K.**, Anderson, K. Combs, K. (2018, Mar.). Comparison of distortion-product otoacoustic emissions between Brazilian and United States children. American Auditory Society, Scottsdale, Arizona.
- Taddei**, S., **Chung, K.**, Wilson, M., & ScheckLong, D. (2017, Mar.). Influence of hearing aid compression ratio on localization in the horizontal plane. American Auditory Society, Scottsdale, Arizona. ***student received a Travel Award from American Auditory Society*
- Chung, K.** (2016, Apr.). Acoustical characteristics of three transient noise reduction algorithms. AudiologyNow!, Phoenix, Arizona.
- Page, H., **Chung, K.**, Wilson, M. & Munguia, R. (2016, Mar.). Pediatric hearing health status in the Cambodian population. AudiologyNow! Pheonix, Arizona.
- Chung, K.** (2016, Mar.). Effect of hair on wind noise characteristics and wind noise reduction strategies. American Auditory Society, Scottsdale, Arizona.
- Chung, K.** (2012, Aug). Effects of venting and microphone directionality in wind and wind-induced vent effects. International Hearing Aid Conference. Lake Tahoe, California.
- Chung, K.** (2010, Jan.). Utilizing modulation-based noise reduction algorithm in hearing protectors: Localization performance. Bionic Ear-Enhancing Plug Workshop, Austin, Texas.
- Chung, K.**, Nelson, L.A., & McKibben, N. (2007, Jul.). Microphone choice for cochlear implant users in wind noise. Conference on Auditory Implantable Prosthesis, Lake Tahoe, California.
- Chung, K.**, Novak, R., Kirk, K.I. & Hawkins, J. (2005, Jun.). Amplification curriculum at Purdue University. Teaching Audiology Conference. Pittsburg, Pennsylvania.

- Chung, K.,** Zeng, F-G & Waltzman, S. (2004, May). Using hearing aid as front-end processors to enhance cochlear implants. Poster presented at VIII International Cochlear Implant Conference. Indianapolis, Indiana.
- Wagoner LL, McGlothlin JD, **Chung K.**, Strickland B, Zimmerman N & Carlson G. (2004, May). Evaluation of noise attenuation and verbal communication capabilities using three ear insert hearing protection systems among airport maintenance personnel. American Industrial Hygiene Conference and Exposition, Atlanta, Georgia.
- Chung, K.,** Zeng, F-G. & Waltzman, S (2003, Aug.). Application of advanced hearing aid technologies to enhance cochlear implants: A pilot study. Poster presentation at Conference on Auditory Implantable Prosthesis, Pacific Grove, California.
- Chung, K.,** Studebaker, G.A., Sherbecoe, R.L. (1996, Oct.). Measured and predicted loudness balance of spectrally altered speech. American Speech, Language, and Hearing Association Conference, Seattle, Washington.

Other Podium Presentations

- Lopes, A.C., Kuo, A.C. & **Chung, K.** (2021, Aug.). Automated x conventional audiometry: proposal for the identification of hearing loss in adults. 6th University of Sao Paulo Graduation Congress.
- Chung, K.,** Hwang, J., O’Boyle, L., Chen, X., Morgan, S. & ScheckLong, D. (2019, Feb.). Cognitive Function of Older Adults and their Ability to Complete Automatic Hearing Test Applications. Rush University, Chicago.
- Chung, K.** (2018, Feb.). The Pursuit of Better Hearing Health Around the World. Rush University, Chicago.

International Training

- Chung, K.** (2022). Calibration training of technicians. WizEar Foundation, Harare, Zimbabwe.

Media Coverage and Outreach

- NIU Today (Jan 19, 2023). [Hearing Loss – An Overlooked Consequence of War.](#)
- Career Spotlight (Dec, 2021). [King Chung, Ph.D., on Humanitarian Audiology.](#)
- NIU Today (Mar 22, 2021). [King Chung wins 2020 Humanitarian Award.](#)
- NIU (Mar 9, 2020). [Applaud a Colleague – King Chung.](#)
- Hearing Journal Breaking News (August 30, 2019). [New Fulbright U.S. Scholar to Conduct Audiology Research in Brazil.](#)
- NIU Today (July 1, 2019). [King Chung receives Fulbright Grant.](#)
- NWIHHF (Oct 11, 2020). Binaural vs. monaural hearing. <https://www.youtube.com/watch?v=SL-DI3W2RSM&feature=youtu.be>, or <https://www.facebook.com/NWLHHF/videos/359872728614410/>
- Science Riot (Oct 2018). The wonderful sound property of diffraction. Field Museum. Chicago, IL.

Kendall County Now (Apr 24, 2017). [NIU Professor Studies Children's Hearing at Fox Valley Family YMCA.](#)

International Teaching Experience (Invited)

2009-2019 (alternate years)	Amplification II. University of Hong Kong.
2018 (Jan)	Introduction to Audiology Assessment Maputo, Mozambique.
2011-2017, 2021, 2023 (alternate years)	Amplification I. University of Hong Kong.
2015 (Mar)	Acoustics and Hearing Aids. Audiology Program, Beit Cure Hospital, Zambia.

Courses Taught in the United States

Acoustics & Instrumentation (2010 – 2020)
Acoustics & Psychoacoustics (2021)
Advanced Topics in Audiology (previously Amplification III) (2009-present)
Amplification II (2003-present)
Auditory Pathologies (2011)
Capstone Project (2010-2013, 2015-2018, 2022-present)
Calibration (2021-present)
Introduction to Audiology (2003-2008; 2011, 2020)
Psychoacoustics (2017 – 2020)
Research Methods (2011-2012, 2019-present)

Hosting of International Academic Exchange Programs at Northern Illinois University

2019	A group of students from National Kaohsiung Normal University for 1 month	Clinical observations and professional exchanges
2019	Two students from Brunei and Cambodia at home for 1 week	Young Southeast Asian Leadership Program (YSEALI)
2018	A faculty member from Macquarie University for a week	Sabbatical leave
2017	Two students from Indonesia and the Philippines for a weekend	Young Southeast Asian Leadership Program (YSEALI)
2016	A chaperon from the Philippines for a weekend	Young Southeast Asian Leadership Program (YSEALI)

2015	Faculty and a group of students from Chung Shan Medical University for 1 month	Clinical observations and professional exchanges
2013	A student from University of Sao Paulo, Bauru for 3 months	Academic exchange and research
2013	Faculty and a group of students from Chung Shan Medical University for 1 month	Clinical observations and professional exchanges
2012	A student from University of Sao Paulo, Bauru for 3 months	Academic exchange and research
2011	Faculty and a group of students from Chung Shan Medical University for 1 month	Clinical observations and professional exchanges

Grants

Research Grants

Principal Investigator, Fogarty International Center, NIH (Submitted Nov. 2022). Smartphones as hearing aids for people with hearing loss in low-to-middle-income countries.

Principal Investigator, Center for the Interdisciplinary Study of Language and Literacy (2021-2022). A Novel Game-Based App for Screening the Hearing Sensitivity of Children.

Co-Investigator with Hughes C. CHHS Faculty Development Grant (2021-22). Addressing Social Isolation and Loneliness Among Older Adults in DeKalb County with the Use of Novel Wireless Headsets

Co-Investigator with Wong, L. University of Hong Kong Seed Grant (2020). Utilizing automatic hearing test program for early identification of hearing loss among children and adults.

Co-Investigator with Hughes C. & ScheckLong, D. CHHS Seed Grant (2020-21). Improving Communication for Hospice Patients.

Principal Investigator, Community Health Endowment Fund (2019-20). A Novel Game-Based Hearing Test Program for Children.

Principal Investigator, Tri-County Grant (2016-18). A New Protocol for Effective Identification of Hearing Loss Among the Elderly.

Principal Investigator, AHCD Research Grant (2016-17). Genotypes and Phenotypes of Hereditary Auditory Neuropathy Exhibited in a Family.

Co-Principal Investigator with Billingsly B, Community Health Endowment Fund (2016-7). Sentence Recognition Performance using Auditory and Visual Modality in Background Noise and in Quiet.

Faculty, Cobb Fellowship (2016). Fostering a Study Abroad and Research Collaboration Relationship in the Philippines.

Principal Investigator, Phonak Research Grant (2012-3). Effectiveness of Wind Noise Algorithms in Hearing Aids. Phonak AG, Switzerland.

Principal Investigator, Oticon Foundation (2007-9). The Effects of Adaptive Directional Microphone and Noise Reduction Algorithms on the Speech Recognition and Perceived Sound Quality in the Laboratory and in Real-World Environments and the Appropriate Decision Rules for Adaptive Directional Microphone Algorithms in Wind Noise for Cochlear Implants. Oticon Foundation.

Principal Investigator, Trask Fund (2004-5). Development of Smart Hearing Protectors. Purdue Research Foundation.

Grants to Support Students to Join Humanitarian Trips

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to the Dominican Republic \(2019\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to the Dominican Republic \(2017\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Service Trip to Australia \(2016\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to Cambodia \(2014\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to China \(2013\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to Brazil \(2012\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to Hong Kong \(2011\)](#). Oticon, Inc.

Program Director, [Heart of Hearing Humanitarian Research & Service Trip to Taiwan \(2010\)](#). Oticon, Inc.

National & International Services

Best Practice Director

Board of Directors, Coalition for Global Hearing Health (2019 – present).

Co-Editor

Audiology Without Borders (column), Hearing Journal (2011-present)

International Faculty

Asia Pacific Symposium on Cochlear Implants and Related Sciences (2005)

Senior Editor

Trends in Hearing (previously Trends in Amplification, 2003-8)

Humanitarian Research and Services

Heart of Hearing Humanitarian Research & Service Trip to Poland (2022, 2023).

WizEar, Zimbabwe (2022) – Teach calibration and participate in an Ear Camp.

University of Kelaniya, Sri Lanka (2022) – Teach calibration.

Taitung Community Outreach, Taiwan (2020) – Tested older adults at a daycare center in an aboriginal village and tested school children in an aboriginal community.

[Heart of Hearing Humanitarian Research & Service Trip to the Dominican Republic \(2019\)](#)

Centro Cristiano de Servicios Medicos Inc., the Dominican Republic (2018) – Discussed study abroad plans and organized the clinical data entry systems of babies for potential research.

Entheos Hear the Call Humanitarian Trip, Mozambique (2018) – Taught audiology, provided hearing services, calibrated clinical equipment, and set up a research program.

[Heart of Hearing Humanitarian Research & Service Trip to Australia \(2017\)](#)

[Heart of Hearing Humanitarian Research & Service Trip to the Dominican Republic \(2017\)](#)

[Heart of Hearing Humanitarian Service Trip to Australia \(2016\)](#)

Beit Cure Hospital, Zambia (2015) – Taught audiology (27 hours) and supervised patients services

[Heart of Hearing Humanitarian Research & Service Trip to Cambodia \(2014\)](#)

Mbingo Baptist Hospital, Cameroon (2014) – Trained the audiology technician, improved the clinical management system, and supervised hearing aid evaluations and hearing aid fitting

[Heart of Hearing Humanitarian Research & Service Trip to China \(2013\)](#)

[Heart of Hearing Humanitarian Research & Service Trip to Brazil \(2012\)](#)

[Heart of Hearing Humanitarian Research & Service Trip to Hong Kong \(2011\)](#)

[Heart of Hearing Humanitarian Research & Service Trip to Taiwan \(2010\)](#)