

# King Chung, Ph.D., CCC-A

[kchung@niu.edu](mailto:kchung@niu.edu)

## Education

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

## 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.

## 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 Audiollgy*, 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.

## **Honors & Awards**

*Fulbright Scholar Award* (2019). Department of State.

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

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

## **Grants**

### **Research Grants**

*Principal Investigator*, Community Health Endowment Fund (2019-10). 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.

*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.

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

## **Grants to Support Students to Join Humanitarian Trips**

**Program Director**, Heart of Hearing Trip to the Dominican Republic (2019 Spring). Oticon, Inc. \$4000.

**Program Director**, Heart of Hearing Trip to the Dominican Republic (2017 Spring). Oticon, Inc. \$5000.

**Program Director**, Heart of Hearing Trip to Australia (2016 Summer). Oticon, Inc. \$5000.

**Program Director**, Heart of Hearing Trip to Cambodia (2014 Summer). Oticon, Inc. \$6,000.

**Program Director**, Heart of Hearing Trip to China (2013 Summer). Oticon, Inc. \$6,000.

**Program Director**, Heart of Hearing Trip to Brazil (2012 Summer). Oticon, Inc. \$4000.

**Program Director**, Heart of Hearing Trip to Hong Kong (2011 Summer). Oticon, Inc. \$4,000.

**Program Director**, Heart of Hearing Trip to Taiwan (2010 Summer). Oticon, Inc. \$2,500.

## **Publications**

### **Patents**

**Chung, K.** (2018). Portable Calibration System for Audio Equipment and Devices. US Provisional Patent Application No. 62758077.

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

*\*Please click link to read the full text document*

### **Peer-Reviewed Articles**

**Chung, K.** (submitted Mar., 2019). Comparisons of Paired-Comparison Paradigms for Accessing Perceived Sound Quality of Cochlear Implants in Real-World Acoustic Environments. Journal of Communication Disorders.

Mealings, K., Harkus, S., Flesher, B., Meyer, A., **Chung, K.** & Dillon, H. (submitted revision May., 2019). Detection of hearing problems in Aboriginal & Torres Strait Islander children: A comparison between clinician-administered and self-administrated hearing tests. International Journal of Audiology.

Mealings, K., Harkus, Samantha, Hwang, J., Fragoso, J., **Chung, K.** & Dillon, H. (submitted). 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 Audiology.

**Chung, K.** (in press). Improving cochlear implant performance in wind through spectral masking reduction: A multi-microphone and multichannel approach. Ear & Hearing.

Chen, H.S., Chiu, W.C., Wang, F., Chang, Y-P, Liu, S.Y., Lin, P-Y. & **Chung, K.** (2014, corresponding author). [Hearing health status of students with special needs in Taiwan](#). International Journal of Pediatric Otolaryngology, 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 of 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**

- 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 6<sup>th</sup> 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 compressor: 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

- Chung, K.** (2019, Aug.). Humanitarian Research and Hearing Health Services Around the World. 26<sup>th</sup> Congress of Speech, Language, and Audiology at Bauru. Keynote Speaker.
- Chung, K.** (2019, Jul.). Wind Noise and Reduction Strategies: A Day in the Hat of an Engineer. University of Sao Paulo, Bauru.
- Chung, K.** (2019, Jul.). Ins and Outs of Directional Microphones. University of Sao Paulo, Bauru. Professional Education Series.
- Chung, K.** (2017, Apr.). Humanitarian Service 101. Rush University, Chicago.
- 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, Australia
- Chung, K.** (2014, Jun.). Otoacoustic Emissions, Bandung University, Indonesia
- Chung, K.** (2014, Jun.). Principles of Audiological Calibration, Bandung University, Indonesia
- Chung, K.** (2014, Jun.). Hearing Aid Technologies. All Ears Cambodia, 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, IL.
- 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, PA.
- 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 Presentation**

- 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**
- 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 Hearing Health. Miami, Florida.
- Chung, K.** (2017, Jul.). Hearing Health Status and Service Needs on School-Aged Children: A Multi-Country Comparison. 6<sup>th</sup> Annual Global Healthcare Conference. Singapore.
- Chung, K. & Cheyney, M.** (2016, Oct.). What Are We Missing? Coalition for Global Hearing Health. The Philippines.
- Chung, K. & Billingsly, D.** (2015, Oct.). Instant Earmold Options. Coalition for Global Hearing Health. Washington, DC.
- 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, FL.
- Chung, K. & Teske, M.** (2014, Mar.). Microphone Combination To Improve Cochlear Implant Performance In Windy Environments. American Auditory Society, Scottsdale, AZ.
- Chung, K. & Nie, K.B.** (2013, Jun.). Evidence-Based Wind Noise Reduction Strategies. 11<sup>th</sup> 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, TN.
- Chung, K.** (2013, Mar.). Application of Wind Noise Temporal Characteristics to Hearing Aid Design. American Auditory Society 2013 Meeting, Scottsdale, AZ.
- Chung, K.** (2013, Feb.). A Day In The Hat of a Hearing Aid Design Engineer. Illinois Academy of Audiology Conference, Chicago, IL.
- Chung, K.** (2012, Mar.). Effects of Microphone Directionality on Spectral Characteristics of Wind Noise. American Auditory Society 2012 Meeting, Scottsdale, AZ.
- 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, CA.
- Chung, K.** (2011, Apr.). Effects of Venting and Directionality on Wind Noise. AudiologyNow! 2011, Chicago, IL.



- 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, TX.
- Chung, K.** (2009, Mar.). Cochlear Implant Performance in Wind Noise with Temporal Amplitude Variations. American Auditory Society 2009 Meeting, Scottsdale, AZ.
- Chung, K.,** McKibben, N., Mongeau, L., & Nie, K-B. (2008, Mar.). Characteristics of Wind Noise in Hearing Aids. American Auditory Society 2008 Meeting, Scottsdale, AZ.
- 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, AZ.
- Chung, K. &** Acker, K. (2005, Apr.). Advanced Hearing Aid Technologies to Create Smart Hearing Protectors. 2005 American Academy of Audiology Convention, Washington, D.C.
- 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, UT.
- 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, AZ.
- 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, AZ.
- 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, CA.
- 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, PA.

### **Peer-reviewed Poster Presentations**

- Chung, K.,** Anderson, K. Combs, K. (2018, Mar.). Comparison of distortion-product otoacoustic emissions between Brazilian and United States children. American Auditory Society, Scottsdale, AZ.

- 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, AZ. *\*student received a Travel Award from American Auditory Society*
- Chung, K.** (2016, Apr.). Acoustical characteristics of three transient noise reduction algorithms. AudiologyNow!, Phoenix, AZ.
- Page, H., **Chung, K.**, Wilson, M. & Munguia, R. (2016, Mar.). Pediatric hearing health status in the Cambodian population. AudiologyNow! Pheonix, AZ.
- Chung, K.** (2016, Mar.). Effect of hair on wind noise characteristics and wind noise reduction strategies. American Auditory Society, Scottsdale, AZ.
- Chung, K.** (2012, Aug). Effects of venting and microphone directionality in wind and wind-induced vent effects. International Hearing Aid Conference. Lake Tahoe, CA.
- Chung, K.** (2010, Jan.). Utilizing modulation-based noise reduction algorithm in hearing protectors: Localization performance. Bionic Ear-Enhancing Plug Workshop, Austin, TX.
- 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, CA.
- Chung, K.**, Novak, R., Kirk, K.I. & Hawkins, J. (2005, Jun.). Amplification curriculum at Purdue University. Teaching Audiology Conference. Pittsburg, PA.
- 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, IN.
- 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, GA.
- 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, CA.
- 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, WA.

### **Other Podium Presentations**

- 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 Hearing Loss Around the World. Rush University, Chicago.

### **Media Outreach**

<http://www.kendallcountynow.com/2017/04/24/niu-professor-studies-childrens-hearing-at-fox-valley-family-ymca/aagsfw/>

Science Riot (Oct 2018). The wonderful sound property of diffraction. Field Museum. Chicago, IL.

### **Courses Taught Internationally (Invited)**

Amplification II. University of Hong Kong, China, Nov., 2019  
Introduction to Audiology Assessment, Maputo, Mozambique. Jan 2018  
Amplification II. University of Hong Kong, China. Nov., 2017  
Amplification I. University of Hong Kong, China. Mar., 2017  
Amplification II. University of Hong Kong, China. Nov, 2015  
Amplification I. University of Hong Kong, China. Apr., 2015  
Hearing Aids. Audiology Program, Beit Cure Hospital, Zambia. Mar., 2015  
Acoustics. Audiology Program, Beit Cure Hospital, Zambia. Mar., 2015  
Amplification II. University of Hong Kong, China. Oct., 2013  
Amplification I. University of Hong Kong, China. Feb., 2013  
Amplification II. Hong Kong Fisherman's Foundation, China. Jun., 2012  
Amplification II. University of Hong Kong, China. Oct., 2011  
Amplification I. University of Hong Kong, China. Mar., 2011  
Amplification II. University of Hong Kong, China. Oct., 2009

### **Courses Taught in the United States**

Amplification II (2003-present)  
Advanced Topics in Audiology (previously Amplification III) (2009-present)  
Introduction to Audiology (2003-2008; 2011)  
Acoustics and Instrumentation (2010-present)  
Research Methods (2011-2012, 2019)  
Auditory Pathologies (2011)  
Capstone Project (2010-2013, 2015-2018)

### **Hosting of International Programs**

2019	National Kaohsiung Normal University at Northern Illinois University	Clinical observations and professional exchanges
2015	Chung Shan Medical University at Northern Illinois University	Clinical observations and professional exchanges

2013	Chung Shan Medical University at Northern Illinois University	Clinical observations and professional exchanges
2011	Chung Shan Medical University at Northern Illinois University	Clinical observations and professional exchanges

## Services

### Co-Editor

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

### Senior Editor

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

### Humanitarian Research and Services AND Online Journal

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

Mozambique Humanitarian Trip with Entheos (2018) – Teach audiology, fit hearing aids, calibrate clinical equipment, and set up 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 in Zambia, Africa (2015) – Saw patients at the Audiology clinic and taught a group of audiology students for 27-hours during the week.

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

[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 \(2010\)](#)

## Online Profiles

[https://www.researchgate.net/profile/King\\_Chung/](https://www.researchgate.net/profile/King_Chung/)

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

## Fluent Languages

*English* (speak, read and write)

*Cantonese & Mandarin* (speak, read and write)

## **Countries Visited**

>60 countries