

Christopher G. Clinard, Ph.D., CCC-A
Department of Communication Sciences and Disorders
James Madison University
Harrisonburg, VA 22807

Education:

- 2010 Ph.D. Speech and Hearing Sciences
University of Washington
Department of Speech and Hearing Sciences
Dissertation: Effects of Age on Frequency Processing:
Simple and Complex Stimuli
- 2004 M.A. University of Tennessee, Knoxville
Major: Audiology
Thesis: Measures of Auditory Inhibition in Female
Smokers and Non-smokers
- 1999 B.B.A. Belmont University
Major: Music Business
Emphasis: Audio Engineering/Product Development

Professional Experience:

- 2022- Full Professor
2016-2022 Associate Professor
2010-2016 Assistant Professor
Communication Sciences and Disorders Department
James Madison University
- 2006- 2010 Research Trainee/PhD Student
University of Washington
Department of Speech and Hearing Sciences
- 2004-2006 Research Audiologist/ Part-time Clinical Fellow
Auditory Research Laboratory
James H. Quillen Veterans Affairs Medical Center
Mountain Home, TN
- 2004 Audiology Clinical Fellow
James H. Quillen Veterans Affairs Medical Center
Mountain Home, TN

Awards and Honors

- 2016 Young Investigator Travel Award. American Auditory Society Meeting.
Scottsdale, AZ.
- 2014 Outstanding Junior Faculty Award, College of Health and Behavioral
Studies, James Madison University

- 2013 Invited to attend “Grant Review and Reviewer Training” program, organized by the American Speech-Language-Hearing Association.
- 2012 Nominated to apply and competitively awarded entry into the “Mentoring for Junior Faculty in Otolaryngology Head and Neck Surgery, and Faculty in Communication Disorders” program, program funded by National Institute on Deafness and Other Communication Disorders (NIH-NIDCD).
- 2012 Invited to attend “Grant Review and Reviewer Training” program, organized by the American Speech-Language-Hearing Association.
- 2011 Attended by invitation and competitive application “Lessons for Success” research mentoring program hosted by the American Speech-Language-Hearing Association.
- 2010 Best of 2009 Audiologic Rehabilitation – “Moment of Science” publication acknowledged in the Hearing Journal. June 2010, vol. 63(6)
- 2010 Best of 2009 Hearing Science – “Moment of Science” publication acknowledged in the Hearing Journal. June 2010, vol. 63(6)
- 2010 NIH-sponsored student poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March 2010).
- 2010 Olswang Endowed Graduate Student Conference Fund Award to attend the Association for Research in Otolaryngology MidWinter Meeting, Anaheim, CA (February 2010).
- 2010 University of Washington Graduate Student Conference Travel Award to attend the Association for Research in Otolaryngology MidWinter Meeting, Anaheim, CA (February 2010).
- 2009 Student travel award for the Aging and Speech Communication Conference, Bloomington, IN (October 2009).
- 2009 Student travel award from the International Evoked Response Audiometry Study Group, Rio de Janeiro, Brazil. (June 2009).
- 2008 NIH-sponsored student poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March 2008).
- 2007-2010 NIH-NIDCD T32 “Research Training Program in Speech and Hearing Sciences.” training grant trainee.
- 2006 Top Scholar Scholarship Program

University of Washington, Seattle

2002-2004 Graduate Assistantship and full tuition waiver
University of Tennessee, Knoxville

Teaching Experience

2011-2023 James Madison University
CSD 611 "Neurophysiologic Measures I"
CSD 621 "Neurophysiologic Measures II"
CSD 731 "Medical Audiology"
Co-taught CSD 511 "Instrumentation in Audiology"
Guest Lectures in CSD 710 "Geriatric Audiology"

Research Support:

- 2022 Vestibular Research Grant for Student Investigator from the American Academy of Audiology Foundation. "Age-related changes in the sacculo-colic reflex pathway and changes in the nonlinearity of the vestibular system." (\$5000, July 1, 2022 – May 31, 2023). Ph.D. Student: Raghav Jha Role: Co-mentors: Chris Clinard and Erin Piker
- 2022 College of Health and Behavioral Studies Research and Teaching Grant. James Madison University. "Instrumentation for Transformative Vestibular Research & Teaching" Co-Principal Investigators: Chris Clinard and Erin Piker. (\$4600)
- 2021 Students Pursuing Academic Career Award (SPARC). American Speech-Language Hearing Association (ASHA). Student: Erin Hernon. Primary Mentor: Erin Piker. Secondary mentors: Erin Clinard and Chris Clinard. My main role in this student award is to serve as a mentor in computer programming for data analysis.
- 2020 Vestibular Research Grant for Student Investigator from the American Academy of Audiology Foundation. "Statistical detection of cervical vestibular evoked myogenic potentials." (\$5000, July 1, 2020 – May 31, 2021). Ph.D. Student: Daniel Romero Role: Co-mentors: Chris Clinard and Erin Piker
- 2019 – 2022 National Institutes of Health – National Institute on Deafness and Other Communication Disorders. Academic Research Enhancement Award (R15). "Aging and Frequency Processing". (\$300,000 direct costs). (3 year grant). Principal Investigator.
- 2019 American Hearing Research Foundation – Research Grant. "A more sensitive measure of age-related changes in the vestibular system:

Vestibular evoked myogenic potentials (VEMPs) elicited by amplitude-modulated tones”. Co-Principal Investigators: Chris Clinard and Erin Piker. (\$28,028 direct costs).

- 2019 American Academy of Audiology Foundation. Vestibular Research Grant for Student Investigator. “Effects of tonic muscle activation on amplitude-modulated cervical VEMPs.” Student awardee: Andrew Thorne. Mentor: Chris Clinard. (\$4,922).
- 2019 College of Health and Behavioral Studies Interprofessional and Collaboration Grant. James Madison University. “Hearing and Behavior in Aging Mice.” Co-investigators: Suzanne Baker, Lincoln Gray, and Chris Clinard. (\$3,763)
- 2019 College of Health and Behavioral Studies Research and Teaching Grant. James Madison University. “Advanced instrumentation aimed at providing a more sensitive measure of vestibular physiology.” Co-Principal Investigators: Chris Clinard and Erin Piker. (\$3644)
- 2018 College of Health and Behavioral Studies Research Grant. James Madison University. “Behavioral and Physiological Measures of Binaural Masking Release in Humans.” (\$725)
- 2018 Provost Faculty Development Award. James Madison University. “Infrastructure support for Auditory and Vestibular Research.” (\$2103)
- 2017 College of Health and Behavioral Studies Research Grant. James Madison University. “Effects of cochlear delay on envelope-following responses.” (\$870)
- 2016 College of Health and Behavioral Studies Mini Grant. James Madison University. “Behavioral and Physiological Measures of Binaural Masking Release in Humans” (\$800).
- 2016 College of Health and Behavioral Studies Mini Grant. James Madison University. “Behavioral and Physiological Measures of Binaural Masking Release in Humans” (\$800).
- 2015 College of Health and Behavioral Studies Mini Grant. James Madison University. “Behavioral and Physiological Measures of Binaural Masking Release in Humans” (\$700).
- 2014-2016 NIH Clinical Research Loan Repayment Program Renewal. “Age-related Changes in Frequency Processing.” Principal Investigator. Research Mentor: Lincoln Gray

- 2014 College of Health and Behavioral Studies Research Grant. James Madison University. "Age-related Changes in Binaural Frequency Representation" (\$960).
- 2013 College of Health and Behavioral Studies Research Grant. James Madison University. "Effects of Age on Binaural Processing" (\$1400).
- 2012 College of Integrated Science and Technology Mini-Grant. James Madison University. "Effects of Age on Dynamic Frequency Representation" (\$1000)
- 2011-2015 National Organization for Hearing Research Foundation Grant. "Effects of Aging on Dynamic Frequency Representation." (\$20,000)
- 2011 College of Integrated Science and Technology Mini-Grant. James Madison University. "Effects of Age on the Perception and Neural Representation of Frequency Processing" (\$1000)
- 2011-2013 NIH Clinical Research Loan Repayment Program. "Age-related Changes in Frequency Processing." Principal Investigator. Research Mentor: Lincoln Gray
- 2010 NIH NIDCD NRSA Ruth L. Kirschstein National Research Service Award for Individual Predoctoral Fellows (F31 DC010553). "Age-related Changes in Spectral Processing. Principal Investigator. Mentor: Kelly Tremblay, Ph.D., co-mentor: A. Ravi Krishnan, Ph.D. (awarded)
- 2007- 2010 Research Training Program in Speech and Hearing Sciences Trainee (NIH NIDCD T32-DC000033)

Certification:

ASHA Certification: Audiology

Professional Associations:

American Speech-Language-Hearing Association
 American Auditory Society
 Association for Research in Otolaryngology

Refereed Publications

Clinard, C.G., Piker, E.G., and Romero, D.J. (2022). Inter-trial coherence as a measure of synchrony in cervical vestibular evoked myogenic potentials. *Journal of Neuroscience Methods*, 377, July 15, 109628.

- Clinard, C.G., Lawlor, K.J., and Piker, E.G. (2022). Nonlinearity in amplitude-modulated cervical vestibular evoked myogenic potentials: Harmonic distortion products. *Journal of Neurophysiology* 127(3), 791-800.
- Lawlor, K.J., Clinard, C.G., and Piker, E.G. (epub March 23 2022). Temporal modulation transfer functions of amplitude-modulated cervical vestibular evoked myogenic potentials in young adults. *Ear and Hearing*.
- Clinard, C.G., Lawlor, K.J., and Piker, E.G. (2021). Effects of stimulus polarity on amplitude-modulated cervical vestibular evoked myogenic potentials. *Journal of the American Academy of Audiology* 32(9), 588-595.
- Romero, D.J., Piker, E.G., Thorne, A.P., and Clinard, C.G. (2021). Comparison of bone-conducted cervical VEMPs elicited by B71 and B81 bone vibrators. *Ear and Hearing*. *Ear and Hearing*. 42(3), 596-605.
- Clinard, C.G., Thorne, A.P., and Piker, E.G. (2020). Effects of tonic muscle activation on amplitude-modulated cervical vestibular evoked myogenic potentials (AMcVEMPs) in young females: preliminary data. *Journal of the Association for Research in Otolaryngology* 21(5), 445-461.
- Clinard, C.G., Piker, E.G., Thorne, A.P., Surface, E.N., Anderson, A.E., Beacham, V.A., Crouse, M.C., Whitney, V.H., Depaolis, R.A. (2020). Maximum output and low-frequency limitations of B71 and B81 clinical bone vibrators: Implications for vestibular evoked potentials. *Ear and Hearing* 41(4), 847-854.
- Clinard, C.G., Hodgson, S.L., and Scherer, M.E. (2017). Neural correlates of the binaural masking level difference in human frequency-following responses. *Journal of the Association for Research in Otolaryngology* 18(2), 355-369.
- Won, J.H., Tremblay, K.T., Clinard, C.G., Wright, R., Sagi, E., and Svirsky, M. (2016). The neural encoding of formant frequencies contributing to vowel identification in normal-hearing listeners. *Journal of the Acoustical Society of America*, 139(1), 1-11.
- Clinard, C.G. and Cotter, C.M. (2015). Neural representation of dynamic frequency is degraded in older adults. *Hearing Research*, 323, 91-98.
- Clinard, C.G. and Tremblay, K. (2013). What brainstem recordings may and may not be able to tell us about hearing aid amplified signals. *Seminars in Hearing*, 34(4), 270-277.
- Clinard, C.G. and Tremblay, K. (2013). Aging degrades the neural encoding of simple and complex sounds in the human brainstem. *Journal of the American Academy of Audiology*, 24(7), 590-599.

Akin, F.W., Murnane, O.D., Tampas, J.W., Clinard, C.G., Byrd, S., Kelly, J.K. (2012). The effect of noise exposure on the cervical vestibular evoked myogenic potential. *Ear and Hearing*, 33(4), 458-465.

Won, J.H., Clinard, C., Kwon, S.Y., Dasika, V.K., Drennan, W., Tremblay, K.L., Rubinstein, J.T. (2011). Relationship between behavioral and physiological spectral-ripple discrimination. *Journal of the Association for Research in Otolaryngology*.12(3), 375-393.

Akin, F., Murnane, O., Tampas, J.W. Clinard, C. (2011). The effect of age on the cervical vestibular evoked myogenic potential. *Ear and Hearing*, 32(5), 617-622.

Clinard, C., Tremblay, K., and Krishnan, A.R. (2010). Aging alters the perception and physiological representation of frequency: Evidence from human frequency-following response recordings. *Hearing Research*, 264, 48-55.

Non-refereed Publications

Clinard, C. and Tremblay, K. (2009). From the top: Efferent activity changes with auditory training. *Audiology Today*, September/October 21(5).

Clinard, C. and Tremblay, K. (2009). Babies Beware II: Noise exposure might affect spiral ganglion cells later in life. *Audiology Today*, May/June 21(3).

Clinard, C. and Tremblay, K. (2008). Auditory Training. What improves perception and how? *Audiology Today*, Nov/Dec. 20(6)

Clinard, C. and Tremblay, K. (2008). Enlarged Cortical Maps Don't Always Improve Perception. *Audiology Today*, May/June 20(3).

Clinard, C. and Tremblay, K. (2008). Can ripples predict speech understanding in listeners who wear cochlear implants?" *Audiology Today*, Jan/Feb 20(1).

Faulkner, K., Clinard, C. and Tremblay, K. (2007). A Goldilocks Perspective on Auditory Training: How Much is Just Right? *Audiology Today*, Sept/Oct 19(5).

Book Chapters:

Tremblay, K.L. and Clinard, C.G. (2014). "Cortical Auditory Evoked Potentials" in Handbook of Clinical Audiology, edited by J. Katz and L. Hood. 2014. Lippincott, Williams, and Wilkins, Baltimore.

Refereed Presentations:

Clinard, C., Jha, R., & Piker, E.G. "Temporal modulation transfer functions of amplitude-modulated cVEMPs." Podium presentation at the Association for Research in Otolaryngology MidWinter Meeting. (February 2023).

- Jha, R., Clinard, C., & Piker, E.G. "Effects of age on the AMcVEMP temporal modulation transfer function". Poster presentation at the Association for Research in Otolaryngology MidWinter Meeting. (February 2023).
Podium presentation at the American Balance Society Conference (March 2023).
- Park, H., Nie, Y., Rout, A., & Clinard, C. "Directional Effect of Target Position on Spatial Selective Auditory Attention". Poster presentation at the Association for Research in Otolaryngology MidWinter Meeting. (February 2023).
- Szabo, H. and Clinard, C.G. (2022). Age-Related Decline in Neural Synchrony and the FFR. Poster presentation, American Academy of Audiology annual conference.
- Jha, R.H., Clinard, C.G., Lawlor, K., & Piker E.G. (2022). Amplitude-modulated-cVEMP: A novel method to assess saccular functioning in aging population. Podium presentation, 14th American Balance Society Conference.
- Jha, R.H., Clinard, C.G., Lawlor, K., & Piker E.G (2022). Amplitude-modulated-cVEMP: A novel method to assess saccular functioning in aging population. Poster presentation, 49th American Auditory Society Conference.
- Romero, D. J., Piker, E.G., Clinard, C.G. (2022). The effect of gaze angle on objective detection on ocular VEMPs. Podium presentation, 14th American Balance Society Conference.
- Thorne, A. P., Clinard, C.G., Piker, E. G., Jones, E., Brenk, M. (2022). Amplitude-modulated cVEMPs (AMcVEMPs) and their clinical implications versus transient cVEMPs. Poster presentation, American Academy of Audiology annual conference.
- Clinard, C.G., Lawlor, K., and Piker, E.G. "Temporal modulation transfer functions of amplitude-modulated cVEMPs." Podium presentation at the Association for Research in Otolaryngology MidWinter Meeting. (February 2021).
- Romero, D., Piker, E.G., Zalewski, C. and Clinard, C.G.. "Objective detection of vestibular evoked myogenic potentials: effects of stimulus level." Podium presentation at the American Balance Society Meeting. (February 2021).
- Daniel Romero, Erin Piker, Chrisopher Zalewski, and Christopher Clinard. "Objective detection of vestibular evoked myogenic potentials: effects of stimulus level." Podium presentation at the American Balance Society Meeting. (February 2021).
- Kerri Lawlor, Chris Clinard, Andrew Thorne, and Erin Piker. "Temporal modulation transfer functions of amplitude-modulated cVEMPs in young adults." NIH-

sponsored poster presentation at the American Auditory Society. (March 2020).

Chris Clinard, Kerri Lawlor, Andrew Thorne, and Erin Piker. "Age-related degradation of amplitude-modulated cVEMPs (AMcVEMPs)." poster presentation at the American Auditory Society. (March 2020).

Daniel Romero, Christopher Clinard, and Erin Piker. "Statistical detection of cervical vestibular evoked myogenic potentials: effects of stimulus level." Podium presentation at the American Balance Society Meeting. (February 2020).

Andrew Thorne, Chris Clinard, and Erin Piker. "Effects of tonic muscle activation on amplitude-modulated cervical VEMPs (AMcVEMPs)." NIH-sponsored poster presentation at the American Auditory Society. (March 2019).

Daniel Romero, Erin Piker, Christopher Clinard, and Andrew Thorne. "Comparison of Bone Conduction Cervical VEMPs Across Different Transducers." Podium presentation at the American Balance Society Meeting. (February 2019).

Jessen, L. and Clinard, C. , "Monaural contribution to the binaural release of masking: a combined psychoacoustics and electroencephalography study." Auditory EEG Signal Processing (AESoP) Symposium in Leuven, Belgium (May 2018).

Clinard, C., and Jones, N.W. "Envelope-following response amplitude and cochlear traveling wave delay". Poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2017).

Jones, N.W. and Clinard, C. "Envelope Following Responses and the Effects of Cochlear Delay". Poster presentation at the American Academy of Audiology National Convention, Indianapolis, IN. (April, 2017).

Clinard, C., and McClements-Hodgson, S. "Neural Correlates of the Binaural Masking Level Difference in Humans". Podium presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2016).

Scherer, M.E., Gray, L., and Clinard, C. "The Effects of Age on the Perception of Frequency in Noise". Poster presentation at the Speech and Hearing Association of Virginia (SHAV) Meeting, Richmond, VA (March, 2016).

Clinard, C., Cotter, C.M., Heckler, L., and Scherer, M.E. "Effects of Age on Binaural Frequency Representation: Interaural Phase Differences and Frequency-following Responses." Poster presentation at the Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, IN (October, 2015).

- McClements, S., Scherer, M.E., and Clinard, C. "Release from Masking: Behavioral and Physiological Masking Level Differences." NIH-sponsored student poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2015).
- Williams, M., Clinard, C., Rout, A., and Ryals, B. "Wideband Immittance and DPOAE Amplitude Changes in Older Adults." Poster presentation at the American Academy of Audiology National Convention, San Antonio, TX. (March, 2015).
- Athey, H., Hulvey, B., Ryals, B., Clinard, C., and Rout, A. "Wideband Immittance and DPOAE Amplitude Changes in Older Adults." Poster presentation at the American Academy of Audiology National Convention, San Antonio, TX. (March, 2015).
- Cotter, C., and Clinard, C. "Binaural Listening in Young and Middle-aged Adults: Interaural Phase and Speech-in-Noise." Poster presentation at the American Academy of Audiology National Convention, Orlando, FL. (March, 2014).
- Heckler, L. and Clinard, C. "Examining Monaural and Binaural Measures of Phase Locking as a Function of Age." Poster presentation at the American Academy of Audiology National Convention, Orlando, FL. (March, 2014).
- Clinard, C. and Shearer, D. "Effects of Age on the Perception and Neural Representation of Frequency Modulation." Poster presentation at the Association for Research in Otolaryngology MidWinter Meeting, Baltimore, MD (February, 2013).
- Akin, F.W., Murnane, O.D., Tampas, J.W., Byrd, S., Kelly, J.K., Clinard, C. The effect of noise exposure on the cervical vestibular evoked myogenic potential (cVEMP). Poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2012).
- Clinard, C., Tremblay, K., and Krishnan, A. "Neural encoding of simple and complex sounds declines with age." Poster presentation at the Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, IN (October, 2011).
- Clinard, C., Won, J.H., , Kwon, S.Y., Dasika, V., Nie, K., Drennan, W.R., Tremblay, K.L., and Rubinstein, J.T. "Behavioral and physiologic measurements of spectral-ripple discrimination." Poster presentation at the Association for Research in Otolaryngology MidWinter Meeting, Baltimore, MD (February, 2011).
- Clinard, C. and Tremblay, K. "Aging alters the neural representation of simple and complex sounds." NIH-sponsored student poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2010).

- Clinard, C. and Tremblay, K. "Aging alters the neural representation of simple and complex sounds: Evidence from human FFR recordings." Poster presentation at the Association for Research in Otolaryngology MidWinter Meeting, Anaheim, CA (February, 2010).
- Clinard, C., Tremblay, K., and Krishnan, A. "Effects of age on perception and neural representation of frequency." Poster presentation at the Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, IN (October, 2009).
- Clinard, C., Tremblay, K., Krishnan, A. "Effects of age on the perception and neural representation of frequency." Poster presentation at the International Evoked Response Audiometry Study Group Meeting, Rio de Janeiro, Brazil. (June, 2009).
- Clinard, C., Kwon, S., Won, J.H., Drennan, W.R., Tremblay, K., Rubinstein, J.T." Spectral-ripple discrimination thresholds: relation of behavioral and physiological measures." NIH-sponsored student poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2008).
- Won, J.H., Kwon, S., Clinard, C., Drennan, W.R., Dasika, V., Tremblay, K., Rubinstein, J. "New method for discrimination of spectral-ripple stimuli." Poster presentation at Association for Research in Otolaryngology MidWinter Meeting, Phoenix, AZ (February, 2008)
- Kwon, S., Clinard, C., Tremblay, K., Won, J.H., Drennan, W., Kim, I.Y., Rubinstein, J. "Behavioral and physiological discrimination of spectral-ripple stimuli." Poster presentation at the Northwest Auditory Meeting, Portland, OR (October, 2007).
- Clinard, C., Murnane, O.D., & Tampas, J. "Auditory Steady-state Response: test-retest reliability." Poster presentation at the American Auditory Society Meeting, Scottsdale, AZ (March, 2006).
- Tampas, J., Akin, F.W., Clinard, C., & Murnane, O.D. "The effects of aging on tonic EMG level and VEMP." Poster presentation at the American Academy of Audiology National Convention, Minneapolis, MN. (March, 2006).
- Akin, F.W., Tampas, J., Clinard, C., & Murnane, O.D. "A Comparison of VEMP recording techniques." Poster presentation at the American Academy of Audiology National Convention, Minneapolis, MN. (March, 2006).
- Tampas, J., Clinard, C., Murnane, O.D., & Akin, F.W. "A Comparison of air and bone-conducted VEMPs." Poster presentation at the American Academy of Audiology National Convention, Minneapolis, MN. (March, 2006).
- Cunningham, M.C., Akin, F.W., Murnane, O.D., Tampas, J., & Clinard, C. "The clinical evaluation of bilateral vestibular loss." Poster presentation at the

American Academy of Audiology National Convention, Minneapolis, MN.
(March, 2006).

Murnane, O., Clinard, C., Tampas, J., Akin, F., & Wilson, R. "Effects of stimulus type on multiple auditory steady-state response thresholds in normal-hearing subjects." Poster presented at the International Evoked Response Audiometry Study Group, Havana, Cuba (June, 2005).

Clinard, C., Murnane, O.D., Tampas, J., & Akin, F.W. "Effects of stimulus type on ASSR threshold." Poster presented at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Akin, F.W., Murnane, O.D., Tampas, J., & Clinard, C. "A comparison of VEMP recording techniques." Podium presentation at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Akin, F.W., Murnane, O.D., Tampas, J., & Clinard, C. "Air and bone-conducted vestibular evoked myogenic potentials." Podium presentation at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Howard, J., Akin, F.W., Murnane, O.D., Tampas, J., & Clinard, C. "Effects of rise/fall time on VEMP amplitude & latency." Poster presented at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Murnane, O.D., Akin, F.W., Clinard, C., & Tampas, J. "A sound-evoked vestibular neurogenic potential." Podium presentation at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Murnane, O.D., Akin, F.W., Clinard, C., & Tampas, J. "The effects of stimulus parameters on the VEMP." Podium presentation at the American Academy of Audiology National Convention, Washington, D.C. (March, 2005).

Invited Presentations

Clinard, C. "Effects of Aging on the Neural Representation of Sounds in Quiet and Noise." Ruth Symposium, James Madison University, October, 2014.

Clinard, C. and Cotter, C. "Neural representation of dynamic frequency content is degraded in older adults." Podium presentation at the Aging and Speech Communication: An International and Interdisciplinary Research Conference, Bloomington, IN (October 2013).

Clinard, C. "Aging alters the neural representation of simple and complex sounds." Ruth Symposium, James Madison University, October, 2011.

Clinard, C. "Aging alters the neural representation of simple and complex stimuli." Ruth Symposium, James Madison University, October, 2010.

Non-refereed Presentations

Clinard, C. "Aging Degrades the Neural Representation of Dynamic Sounds." Poster presentation at the College of Health and Behavioral Studies Faculty Research Day, James Madison University, October 2012.

Clinard, C. "Aging Alters the Neural Representation of Simple and Complex Sounds: Evidence From Human FFR Recordings." Poster presentation at the College of Integrated Science and Technology Faculty Research Day, James Madison University, October 2010.

Clinard, C. "The effects of age on frequency processing of simple and complex stimuli." Doctoral Research Forum Presentation, University of Washington, Department of Speech and Hearing Sciences, April 2010.

Clinard, C. "Effects of age on the perception and neural representation of frequency: follow-up" Doctoral Research Forum Presentation. University of Washington, Department of Speech and Hearing Sciences, December 2009.

Clinard, C. "Effects of age on the perception and neural representation of frequency." Doctoral Research Forum Presentation. University of Washington, Department of Speech and Hearing Sciences, April 2009.

Clinard, C. "Effects of age on the perception and neural representation of frequency: Preliminary Data." Doctoral Research Forum Presentation. University of Washington, Department of Speech and Hearing Sciences, October 2008.

Clinard, C. "Relating Behavioral and Physiological Representations of Frequency." Doctoral Research Forum Presentation. University of Washington, Department of Speech and Hearing Sciences, April 2008

Clinard, C., Kwon, S., Won, J.H., Drennan, W.R., Tremblay, K., Rubinstein, J.T." Spectral-ripple discrimination thresholds: relation of behavioral and physiological measures." Poster presentation at the Bloedel Research Day, Virginia Merrell Bloedel Hearing Research Center, Seattle, WA (April, 2008).

Clinard, C. "Test-retest reliability of the Auditory Steady-state Response." Doctoral Research Forum Presentation. University of Washington, Department of Speech and Hearing Sciences, April 2007.

Akin, F., Murnane, O., Tampas, J., Clinard, C. "Vestibular Evoked Myogenic Potential: A Hands-On VEMP Workshop." September 30, 2005 and April 16, 2006. Mountain Home, TN.

Advising

<u>Doctoral (Au.D.) Dissertation Committees</u>	<u>Graduation Date</u>
Meredith Robotti (member)	2012

Kristen Shearer	(member)	2012
Sara Blankenship	(member)	2012
Verleyne Andrews	(chair)	2013
Justine Angilleta	(member)	2013
Kristie Meehan Wilson	(member)	2013
Bethany Magee	(member)	2013
Andrea Liuzzo	(member)	2014
Daniel Shearer	(chair)	2014
Caitlin Cotter	(chair)	2015
Larissa Heckler	(chair)	2015
Megan Klingenberg	(member)	2015
Haley Athey	(member)	2016
Michelle Gerringe	(member)	2016
Sarah McClements	(chair)	2016
Allison McGrath	(member)	2016
Robyn Ritter	(member)	2016
Mandy Wilson	(member)	2016
Alexandra Bove	(chair)	2017
Sofia Ganev	(member)	2017
Hollis Leidy	(member)	2017
Mary Ellen Scherer	(chair)	2017
Alexandra Short	(member)	2017
Nicole Wall Jones	(chair)	2018
Logan Hamlyn Faust	(member)	2019
Anna Louthan	(member)	2019
Julia Dawson	(chair)	2020
Paris Atabeck	(member)	2020
Abby Compton	(member)	2020
Valerie Beacham	(member)	2022
Andrew Thorne	(chair)	2023
Kerri Lawlor	(chair)	2023
Susanne Nelson	(member)	2022
Haley Szabo	(chair)	2023
Michelle Besser	(member)	2023
Erin Hernon	(member)	2023
Hannah Richardson	(chair)	2025
Sydney Brown	(chair)	2025
Ashton Fowlkes	(chair)	2025

2011 – 2015 Undergraduate advisor for CSD class of 2015

2017 - 2021 Undergraduate advisor for CSD class of 2021

2022 - Undergraduate advisor for CSD class of 2025

Service

JMU:

- 2016 - 2023 Senator, CSD representative for JMU Faculty Senate
- 2016 - Organizer of The Ruth Symposium in Hearing Science and Audiology
- 2014-2016 Chair, Dean's Faculty Advisory Council, College of Health and Behavioral Studies
- 2012-2016 Represented CSD to incoming undergraduates at CHOICES event
- 2012 Represented CSD on JMU Take a Look Day – Minority Recruitment event
- 2012-2014 Member, Dean's Faculty Advisory Council, College of Health and Behavioral Studies
- 2011-2021 Member, CSD Undergraduate Council
- 2010 - Member, CSD Audiology Council

Peer Review (a selection, not complete):

- 2019 - Ad-hoc reviewer for Nature Neuroscience
- 2018 - Ad-hoc reviewer for Journal of Neurophysiology
- 2016 - Editorial board member, American Speech-Language-Hearing Association, Special-interest Group 6 – Hearing and Hearing Disorders: Research and Diagnostics
- 2015 - Ad-hoc reviewer for Hearing Research
- 2015 - Ad-hoc reviewer for Journal of the Association for Research in Otolaryngology
- 2014 - Ad-hoc reviewer for American Journal of Audiology
- 2014 - Ad-hoc reviewer for BioMedical Engineering OnLine
- 2013 Reviewer for ASHA Special Interest Group 6 Perspectives on Hearing and Hearing Disorders: Research and Diagnostics
- 2012- Ad-hoc reviewer for the International Journal of Otolaryngology
- 2011 - Ad-hoc reviewer for the Journal of Speech, Language, and Hearing Research
- 2010- Ad-hoc reviewer for the International Journal of Audiology
- 2010- Guest Editor and Ad-hoc reviewer for Ear & Hearing