Yingying Wang, Ph.D.

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Neuroimaging for Language, Literacy and Learning (NL3) Lab
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EDUCATION

Ph.D., Biomedical Engineering/Medical Imaging, 2009 – 2013.
Department of Biomedical Engineering, University of Cincinnati, OH, United States.
Dissertation: "*Integration of fMRI and MEG towards modeling language networks in the brain*", Mentor: Dr. Scott K. Holland

M.S., Biomedical Engineering/Medical Imaging, 2002 – 2005.
Department of Biomedical Engineering, Shanghai University, Shanghai, China.
Thesis: "*Three-dimensional reconstruction technique of image from digital subtraction angiography (DSA)*", Advisor: Dr. Weicheng Zhang

B.S., Biomedical Engineering/Medical Imaging, 1998 – 2002.
Department of Biomedical Engineering, Shanghai University, Shanghai, China.
Thesis: "*Collection, conversation and net transport of medical signal*", Advisor: Dr. Weicheng Zhang

POSITIONS

Assistant Professor, 2016.01 – present
Department of SECD, UNL, Lincoln, NE, United States.
My Roles: Building independent research laboratory; My team currently focused on identifying brain factors that predict speech perception outcomes for cochlear implant candidates, and determining the brain basis of reading development in children who are deaf/hard of hearing.

Post-doc Research Fellow, 2014.01 – 2015.12
Division of Developmental Medicine, Boston Children's Hospital/Harvard Medical School, MA, United States
Mentor: Nadine Gaab, Ph.D.
My Roles: Built data processing pipeline in MATLAB to analyze functional magnetic resonance imaging (fMRI) and diffusion-weighted imaging (DWI) data to identify the neural basis of developmental dyslexia for early identification of children at risk for developmental dyslexia.

Graduate Research Assistant, 2009.09 – 2013.12
Department of Radiology, Cincinnati Children's Hospital/University of Cincinnati, OH, United States
Mentor: Scott K. Holland, Ph.D.
My Roles: Developed MATLAB tools to combine fMRI and Magnetoencephalography (MEG) data to study language function and networks in the brain of adolescents; Analyzed DWI data in a longitudinal sample and identified developmental changes and gender differences of white matter integrity.

Research Assistant III, 2006.06 – 2009.09
Division of Neurology, Cincinnati Children's Hospital, OH, United States
Supervisor: Jing Xiang, M.D., Ph.D.
My Roles: Recruited over 150 children to participate in a MEG study, which aimed to study visual, auditory, sensory-motor and language functions in children age range from 6 to 17 years old; Assisted clinical doctors with their MEG research design and data collection; Trained dozens of undergraduate students and visiting scholars on how to collect and analyze MEG data.

Research Assistant, 2005.11 – 2006.06
Department of Diagnostic Imaging, The SickKids Hospital, ON, Canada
Supervisor: Jing Xiang, M.D., Ph.D.
My Roles: Developed MEG signal processing toolbox.

Graduate Research Assistant, 2002.09 – 2005.03
Department of Biomedical Engineering, Shanghai University, Shanghai, China
Advisor: Weicheng Zhang, Ph.D.
My Roles: Developed a software package that connects two computers through the series interface; Developed a MATLAB program to simulate digital subtraction angiography (DSA) signals.

AWARDS & FELLOWSHIPS

Research Development Fellows Program, Office of Research and Economic Development, University of Nebraska-Lincoln (course release, fellowship)	10/2018
Scholarly Enhancement Program, College of Education and Human Sciences, University of Nebraska-Lincoln (course release, fellowship: $1,700)	08/2016
The Fellow Award, Division of Developmental Medicine, Boston (1/30)	12/2015
Cognitive Neuroscience Society (CNS), People's Choice Award, Boston (1/300)	04/2014
NIH funded Neuroimaging Training Award, University of California	06/2014
Graduate Student Research Fellowship, University of Cincinnati (top 27%)	06/2012
Conference Travel Awards, University of Cincinnati (top 20%)	2012, 2013
Shanghai Outstanding Graduate Student Award (top 5%)	2005
Special Grade Scholarship, Shanghai University, China (top 5%)	1998,1999
First Grade Scholarship, Shanghai University, China (top 5%)	1999 – 2001
Merit Student, Shanghai University, China (top 5%)	1998 – 2005

RESEARCH

Grants – Ongoing External Awards:
Neural Predictors of Speech Perception Outcomes in Adults with Cochlear Implants
Early Career Award 1R21 DC018110, NIDCD, $460,380, 07/01/19-06/30/22, My Role: PI

Grants – Ongoing Internal Awards:
Neural Predictors of Speech Perception Outcomes in Adults with Cochlear Implants: A Pilot Study
Great Plains IDeA-CTR Pilot Study, $50,000, 09/01/19-08/01/20, My Role: PI.
Building the Infrastructure for Early Childhood Executive Function Research in Nebraska
Planning Grants, UNL, $20,000, 07/01/19-06/30/20, My Role: Co-investigator (PI: Clark, C.)

Grants – Completed External Awards:
Brain imaging as measure of future cognitive outcomes in children
Bill & Melinda Gates foundation, $1,267,354, 05/01/16-03/31/17, My Role: I was the research consultant on data analysis. I was in charge of analyzing MRI structural, functional, and DTI data from Bangladesh MRI scans and providing statistical analyses for MRI data in relation to variable of interest. (PI: Nelson, C., and co-PI: Gaab, N., Boston Children's Hospital).
Neural Pre-markers of Dyslexia in Children Prior to Reading Onset: A Longitudinal fMRI Study
1R01 HD065762, $1,898,740, 03/15/11-03/31/16, My Role: I was postdoc fellow and in charge of analyzing functional, and DTI data. (PI: Gaab, N., Boston Children's Hospital)
Developing Advanced MRI Methods for Detecting the Impact of Nutrients on Infant Brain Development
Abbott Fund, $1,811,464, 09/01/13-08/31/16, My Role: I was postdoc fellow and in charge of analyzing functional MRI and DTI data. (PI: Grant, E., co-PI: Nadine, G., Boston Children's Hospital)

FMRI of normal language development in children
1R01 HD038578, $534,823, 07/01/09-06/30/12, My Role: I was doctoral student and in charge of data collection and analysis. (PI: Holland, S.K., Cincinnati Children's Hospital)

Grants – Completed Internal Awards:

Identifying reading networks in the brain of typical developing children and hearing-impaired children
Great Plains IDeA-CTR Voucher program, $6,000, 03/01/19-06/30/19, My Role: PI
Identifying Neural and Behavioral Characteristics of Reading in Children with Hearing Loss
Layman Seed Award, UNL, $10,000, 05/01/18-04/30/19, My Role: PI.

Peer-Reviewed Publications (in reverse chronological order)

Google Scholar Statistics as of May 25, 2020: total citations: 885; h-index: 20, i10-index: 29
** indicates the first author is a trainee (postdoc fellow, graduate, or undergraduate student) in the lab. The PI is usually the last author and corresponding author. This is the common practice in the field of cognitive neuroscience. Journal Impact Factor is abbreviated as JIF, as a proxy for the relative importance of a journal within its field. Visit https://www.thewanglab.com/people/yingyingwang/#yw_research for more details.*

After joining UNL (Between 2016 – Present*):*

(1) **Wang, Y.**, Sibaii, F., Custead, R., Oh, H., & Barlow, S. M. (2020). Functional Connectivity Evoked by Orofacial Tactile Perception of Velocity. *Frontiers in Neuroscience*, 14, 182, DOI: 10.3389/fnins.2020.00182, JIF: 3.65
(2) * Mathur, A., Schultz, D., **Wang, Y**. (2020). Neural bases of phonological and semantic processing in early childhood. *Brain Connectivity*, [Epub Ahead of Print], DOI: 10.1089/brain.2019.0728, JIF: 3.82
(3) Zuk, J., Dunstan, J., Norton, E., Yu, X., Ozernov-Palchik, O., **Wang, Y.**, … Gaab, N., (2020). Multifactorial pathways facilitate resilience among kindergarteners at risk for dyslexia: A longitudinal behavioral and neuroimaging study. *Developmental Science*, 00:e12983, DOI: 10.1111/desc.12983, JIF: 4.08
(4) Turesky, T. K., Jensen, S. K., Yu, X., Kumar, S., **Wang, Y.**, Sliva, D. D., ⋯ & Haque, R. (2019). The relationship between biological and psychosocial risk factors and resting‐state functional connectivity in 2‐month‐old Bangladeshi infants: A feasibility and pilot study. *Developmental Science*, 22(5), e12841, DOI: 10.1111/desc.12841, JIF: 4.08
(5) Ozernov‐Palchik, O., Norton, E. S., **Wang, Y.**, Beach, S. D., Zuk, J., Wolf, M., ⋯ & Gaab, N. (2019). The relationship between socioeconomic status and white matter microstructure in pre‐reading children: A longitudinal investigation. *Human Brain Mapping*, 40(3), 741-754., DOI: 10.1002/hbm.24407, JIF: 4.55
(6) **Wang, Y.**, Mauer, M. V., Raney, T., Peysakhovich, B., Becker, B. L., Sliva, D. D., & Gaab, N. (2017). Development of tract-specific white matter pathways during early reading development in at-risk children and typical controls. *Cerebral Cortex*, 27(4), 2469-2485, DOI: 10.1093/cercor/bhw095, JIF: 6.31
(7) * Custead, R., Oh, H., **Wang, Y.**, & Barlow, S. (2017). Brain encoding of saltatory velocity through a pulsed pneumotactile array in the lower face. *Brain Research*, 1677, 58-73, DOI: 10.1016/j.brainres.2017.09.025, JIF: 3.13
(8) * Oh, H., Custead, R., **Wang, Y.**, & Barlow, S. (2017). Neural encoding of saltatory pneumotactile velocity in human glabrous hand. *PLoS One*, 12(8), e0183532, DOI: 10.1371/journal.pone.0183532, JIF: 2.78
(9) Raschle, N. M., Becker, B. L. C., Smith, S., Fehlbaum, L. V., **Wang, Y.**, & Gaab, N. (2017). Investigating the influences of language delay and/or familial risk for dyslexia on brain structure in 5-year-olds. *Cerebral Cortex*, 27(1), 764-776, DOI: 10.1093/cercor/bhv267, JIF: 6.31
(10) * Powers, S. J., **Wang, Y.**, Beach, S. D., Sideridis, G. D., & Gaab, N. (2016). Examining the relationship between home literacy environment and neural correlates of phonological processing in beginning readers with and without a familial risk for dyslexia: an fMRI study. *Annals of Dyslexia*, 66(3), 337-360, DOI: 10.1007/s11881-016-0134-2, JIF: 2.17, *First two authors have equal contributions and own co-first authorship*.
(11) * Ozernov-Palchik, O., Yu, X., **Wang, Y.**, & Gaab, N. (2016). Lessons to be learned: How a comprehensive neurobiological framework of atypical reading development can inform educational practice. *Current Opinion in Behavioral Sciences*, 10, 45-58, DOI: 10.1016/j.cobeha.2016.05.006, JIF: 3.42

Before joining UNL (Before 2016):

(1) Ji, L., **Wang, Y.**, Zhu, D., Liu, W., & Shi, J. (2015). White matter differences between multiple system atrophy (parkinsonian type) and Parkinson's disease: a diffusion tensor image study. *Neuroscience*, 305, 109-116, DOI: 10.1016/j.neuroscience.2015.07.060, JIF: 3.24

(2) Thompson, E. A., Xiang, J., & **Wang, Y.** (2015). Frequency-spatial beamformer for MEG source localization. *Biomedical Signal Processing and Control*, 18, 263-273, DOI: 10.1016/j.bspc.2015.01.004, JIF: 2.94

(3) Horowitz-Kraus, T., DiFrancesco, M., Kay, B., **Wang, Y.**, & Holland, S. K. (2015). Increased resting-state functional connectivity of visual-and cognitive-control brain networks after training in children with reading difficulties. *NeuroImage: Clinical*, 8, 619-630, DOI: 10.1016/j.nicl.2015.06.010, JIF: 3.94

(4) **Wang, Y.**, & Holland, S. K. (2014). Comparison of functional network connectivity for passive-listening and active-response narrative comprehension in adolescents. *Brain Connectivity*, 4(4), 273-285., DOI: 10.1089/brain.2013.0190, JIF: 3.82

(5) Horowitz-Kraus, T., **Wang, Y.**, Plante, E., & Holland, S. K. (2014). Involvement of the right hemisphere in reading comprehension: a DTI study. *Brain Research*, 1582, 34-44, DOI: 10.1016/j.brainres.2014.05.034, JIF: 3.13,

(6) Szaflarski, J., **Wang, Y.**, Altaye, M., Rajagopal, A., Byars, A., Plante, E., & Holland, S. (2014). Ten Years In The Making-A Longitudinal Study Of Language Development In Children And Adolescents (P3. 337), *Neurology*, 82 (10 Supplement), P3.337, Link, JIF: 8.06

(7) Horowitz‐Kraus, T., Vannest, J. J., Kadis, D., Cicchino, N., **Wang, Y.**, & Holland, S. K. (2014). Reading acceleration training changes brain circuitry in children with reading difficulties. *Brain and Behavior*, 4(6), 886-902, DOI: 10.1002/brb3.281, JIF: 2.22

(8) * Gummadavelli, A., **Wang, Y.**, Guo, X., Pardos, M., Chu, H., Liu, Y., … & Xiang, J. (2013). Spatiotemporal and frequency signatures of word recognition in the developing brain: a magnetoencephalographic study. *Brain Research*, 1498, 20-32., DOI: 10.1016/j.brainres.2013.01.001, JIF: 3.13

(9) Korostenskaja, M., Harris, E., Giovanetti, C., Horn, P., **Wang, Y.**, Rose, D., … & Xiang, J. (2013). Magnetoencephalography reveals altered auditory information processing in youth with obsessive-compulsive disorder. *Psychiatry Research: Neuroimaging*, 212(2), 132-140, DOI: 10.1016/j.pscychresns.2012.11.011, JIF: 2.96

(10) **Wang, Y.**, Adamson, C., Yuan, W., Altaye, M., Rajagopal, A., Byars, A. W., & Holland, S. K. (2012). Sex differences in white matter development during adolescence: a DTI study. *Brain Research*, 1478, 1-15, DOI: 10.1016/j.brainres.2012.08.038, JIF: 3.13

(11) **Wang, Y.**, Holland, S. K., & Vannest, J. (2012). Concordance of MEG and fMRI patterns in adolescents during verb generation. *Brain Research*, 1447, 79-90, DOI: 10.1016/j.brainres.2012.02.001, JIF: 3.13

(12) Guo, X., Xiang, J., **Wang, Y.**, O'Brien, H., Kabbouche, M., Horn, P., … & Hershey, A. D. (2012). Aberrant neuromagnetic activation in the motor cortex in children with acute migraine: a magnetoencephalography study. *PLoS One*, 7(11), DOI: 10.1371/journal.pone.0050095, JIF: 2.78

(13) Guo, X., Xiang, J., Mun-Bryce, S., Bryce, M., Huang, S., Huo, X., **Wang, Y.**, Rose, D., Degrauw, T., Gartner, K. and Song, T. (2012). Aberrant high-gamma oscillations in the somatosensory cortex of children with cerebral palsy: a meg study. *Brain and Development*, 34(7), 576-583, DOI: 10.1016/j.braindev.2011.09.012, JIF: 1.76

(14) **Wang, Y.**, Xiang, J., Vannest, J., Holroyd, T., Narmoneva, D., Horn, P., … & Holland, S. (2011). Neuromagnetic measures of word processing in bilinguals and monolinguals. Clinical Neurophysiology, 122(9), 1706-1717, DOI: 10.1016/j.clinph.2011.02.008, JIF: 3.61

(15) Zhang, R., Wu, T., **Wang, Y.**, Liu, H., Zou, Y., Liu, W., … & Fu, Z. (2011). Interictal magnetoencephalographic findings related with surgical outcomes in lesional and nonlesional neocortical epilepsy. *Seizure*, 20(9), 692-700, DOI: 10.1016/j.seizure.2011.06.021, JIF: 2.06

(16) Huo, X., **Wang, Y.**, Kotecha, R., Kirtman, E. G., Fujiwara, H., Hemasilpin, N., … & Xiang, J. (2011). High gamma oscillations of sensorimotor cortex during unilateral movement in the developing brain: a MEG study. *Brain Topography*, 23(4), 375-384, DOI: 10.1007/s10548-010-0151-0, JIF: 2.19

(17) Korostenskaja, M., Pardos, M., Kujala, T., Rose, D.F., Brown, D., Horn, P., **Wang, Y.**, Fujiwara, H., Xiang, J., Kabbouche, M.A. and Powers, S.W. (2011). Impaired auditory information processing during acute migraine: a magnetoencephalography study. *International Journal of Neuroscience*, 121(7), 355-365, DOI: 10.3109/00207454.2011.560312, JIF: 1.85

(18) Xiang, J., **Wang, Y.**, Chen, Y., Liu, Y., Kotecha, R., Huo, X., … & Mangano, F. T. (2010). Noninvasive localization of epileptogenic zones with ictal high-frequency neuromagnetic signals: Case report. *Journal of Neurosurgery: Pediatrics*, 5(1), 113-122, DOI: 10.3171/2009.8.peds09345, JIF: 2.17

(19) Wang, X., Xiang, J., **Wang, Y.**, Pardos, M., Meng, L., Huo, X., … & Hershey, A. D. (2010). Identification of abnormal neuromagnetic signatures in the motor cortex of adolescent migraine. *Headache: The Journal of Head and Face Pain*, 50(6), 1005-1016, DOI: 10.1111/j.1526-4610.2010.01674.x, JIF: 1.28

(20) Huo, X., Xiang, J., **Wang, Y.**, Kirtman, E. G., Kotecha, R., Fujiwara, H., … & Degrauw, T. (2010). Gamma oscillations in the primary motor cortex studied with MEG. *Brain and Development*, 32(8), 619-624, DOI: 10.1016/j.braindev.2009.09.021, JIF: 1.76

(21) Chen, Y., Xiang, J., Kirtman, E. G., **Wang, Y.**, Kotecha, R., & Liu, Y. (2010). Neuromagnetic biomarkers of visuocortical development in healthy children. *Clinical Neurophysiology*, 121(9), 1555-1562, DOI: 10.1016/j.clinph.2010.03.029, JIF: 3.61

(22) Korostenskaja, M., Pardos, M., Fujiwara, H., Kujala, T., Horn, P., Rose, D., Byars, A., Brown, D., Seo, J.H., **Wang, Y.** and Vannest, J., (2010). Neuromagnetic evidence of impaired cortical auditory processing in pediatric intractable epilepsy. *Epilepsy Research*, 92(1), 63-73, DOI: 10.1016/j.eplepsyres.2010.08.008, JIF: 2.18

(23) Xiang, J., Liu, Y., **Wang, Y.**, Kotecha, R., Kirtman, E. G., Chen, Y., … & Rose, D. (2009). Neuromagnetic correlates of developmental changes in endogenous high-frequency brain oscillations in children: a wavelet-based beamformer study. *Brain Research*, 1274, 28-39, DOI: 10.1016/j.brainres.2009.03.068, JIF: 3.13

(24) Xiang, J., Liu, Y., **Wang, Y.**, Kirtman, E. G., Kotecha, R., Chen, Y., … & Mangano, F. T. (2009). Frequency and spatial characteristics of high-frequency neuromagnetic signals in childhood epilepsy. *Epileptic Disorders*, 11(2), 113-125, DOI: 10.1684/epd.2009.0253, JIF: 2.05

(25) Kotecha, R., Xiang, J., **Wang, Y.**, Huo, X., Hemasilpin, N., Fujiwara, H., … & deGrauw, T. (2009). Time, frequency and volumetric differences of high-frequency neuromagnetic oscillation between left and right somatosensory cortices. *International Journal of Psychophysiology*, 72(2), 102-110, DOI: 10.1016/j.ijpsycho.2008.10.009, JIF: 2.88

(26) Kotecha, R., Pardos, M., **Wang, Y.**, Wu, T., Horn, P., Brown, D., … & Xiang, J. (2009). Modeling the developmental patterns of auditory evoked magnetic fields in children. *PLoS One*, 4(3) e4811, DOI: 10.1371/journal.pone.0004811, JIF: 2.78

(27) **Wang, Y.**, Xiang, J., Kotecha, R., Vannest, J., Liu, Y., Rose, D., … & Degrauw, T. (2008). Spatial and frequency differences of neuromagnetic activities between the perception of open-and closed-class words. *Brain Topography*, 21(2), 75-85, DOI: 10.1007/s10548-008-0060-7, JIF: 2.19

(28) Liu, Y., Xiang, J., **Wang, Y.**, Vannest, J. J., Byars, A. W., & Rose, D. F. (2008). Spatial and frequency differences of neuromagnetic activities in processing concrete and abstract words. *Brain Topography*, 20(3), 123-129, DOI: 10.1007/s10548-007-0038-x, JIF: 2.19

Under-Reviewed Publications

* Zhang, Z., Peng, P., Eickhoff, S., Lin, X., Zhang, D., **Wang, Y.**, (2020) Neural Substrates of the Construct, Development, and Material Domain in Executive Function: An ALE Meta-analysis. *Developmental Reviews*

Book Chapters

Wang, Y., (2018) Book Chapter: Emergent Reading and Brain Development, *Early Childhood Education*, Donna Farland-Smith, IntechOpen, DOI: 10.5772/intechopen.82423.

Conference Proceedings and Abstracts (in reverse chronological order)

(1) Turesky, T., Jensen, S., Kumar, S., Yu, X., **Wang, Y.**, Zollei, L., Boyd, E., Sanfilippo, J., Sliva, D., Gagoski, B., Nelson, C., Gaab, N., (2017) Functional neural networks present in 2-month old Bangladeshi infants, but show no association with adversity, Developmental Science Special Issue, Abstract.

(2) **Wang, Y.**, Xiang, J., Rose, D.F., Holroyd, T., Harris E., deGrauw, T.J., (2010) The Frequency Profile of Somatosensory Evoked Magnetic Fields in the Developing Brain, 17th International Conference on Biomagnetism Advances in Biomagnetism, IFMBE Proceedings, 28(9): 254-257.
(3) Thompson, E.A., Holland, S.K., Xiang, J., **Wang, Y.**, (2010) MEG source localization using a frequency beamformer. Bioengineering Conference, Proceedings of the 2010 IEEE 36th Annual Northeast, 1-2.
(4) Guo, X., Xiang, J., Chen, Y., Meng, L., Wang, X., **Wang, Y.**, (2010) Quantification of the Time and Frequency Signatures of Visual Cortical Activation in the Developing Brain: A Study with MEG and Wave-Cross Spectrogram, 17th International Conference on Biomagnetism Advances in Biomagnetism – Biomag2010, IFMBE Proceedings, 28(6): 183-186.
(5) Korostenskaja., M., Pardos, M., Lee, K.H., Fujiwara, H., Kujala, T., Xiang, J., Vannest, J., **Wang, Y.**, et al., (2010) From Auditory Change Detection to Reading and Word Processing: Impairments in Children with Intractable Epilepsy. 17th International Conference on Biomagnetism Advances in Biomagnetism, IFMBE Proceedings, 28(13): 378-380.
(6) Xiang, J., **Wang, Y.**, et al., (2007) Volumetric localization of epileptic activity using wavelet-based synthetic aperture magnetometry. Proceedings of the 15th International Conference on Biomagnetism, International Congress Series, 1300:697-700.
(7) Xiang, J., Xiao, Z., **Wang, Y.**, et al., (2007) Detection of subtle structural abnormality in tuberous sclerosis using MEG guided post-image processing. Proceedings of the 15th International Conference on Biomagnetism, International Congress Series, 1300:693-696.

Presentations – Invited Talks (in reverse chronological order)

(1) *Brain encoding of saltatory velocity through a pulsed pneumotactile array in the lower face*, University of Cincinnati, Department of Biomedical Engineering, Graduate Seminar, Cincinnati, OH., November 2019.
(2) *Functional Connectivity Evoked by Orofacial Tactile Perception of Velocity*, University of Nebraska-Omaha, Department of Biomechanics and Center for Research in Human Movement Variability, Omaha, NE., October 2019.
(3) *Bridge Education And Neuroscience*, Walker School of Education, Midland University, Fremont, NE., October 2019.
(4) *Research Updates*, Nebraska Speech Language Hearing Association Fall Convention, Omaha, NE., October 2019.
(5) *Functional Connectivity Evoked by Orofacial Tactile Perception of Velocity*, 5th Annual SfN Satellite Event, Chicago, IL., October 2019.
(6) *Understanding the Reading Brain*, Nebraska Academy for Early Childhood Research Networking: Connecting with Community Research Partners, Lincoln, NE., May 2019.
(7) *Understand the Reading Brain: An Insight from Deafness*, Boys Town National Research Hospital, SMART lunch, Omaha, NE., April 2019.
(8) *Brain connectivity changes in children with and without a familial risk for dyslexia during reading development*, Center for Brain, Biology and Behavior (CB3), MRI Users' meeting, Lincoln, NE, December 2016.
(9) *White Matter Development in at-risk children and typical controls*, University of Nebraska Medical Center, Department of pharmaceutical sciences-seminar, Omaha, NE, October 2016.
(10) *Reading Development in Children*, Department of Psychology, Cabin talk, Lincoln, NE, September 2016.
(11) *White Matter Development in Children*, CB3, MRI Users' meeting, Lincoln, NE, April 2016.
(12) *White Matter Development in at-risk children and typical controls*, Children, Youth, Families and Schools (CYFS) Summit, Research in Early Childhood, Lincoln Marriott Cornhusker Hotel, Lincoln, NE, April 2016.
(13) *White matter development in children at risk for dyslexia*, Biomedical Engineering seminar series, University of Nebraska-Lincoln, Lincoln, NE, March 2016.
(14) *Brain research on reading and language development*, Department of Special Education and Communication Disorders, Brown bag talk, Lincoln, NE, February 2016.
(15) *FMRI and MEG data fusion*, Research Department of Biomedical Engineering in Institute of Electrical Engineering, Chinese Academy of Sciences (IEECAS), Beijing, China, June 2012.

(16) *Integration of fMRI and MEG in language network*, First MRI-71 conference, Cincinnati Children's Hospital, OH., July 2011.

Presentations – Oral or Poster Format (in reverse chronological order)

(1) **Wang Y.**, Mathur, A., White matter pathways supporting basic reading skills in young children, Cognitive Neuroscience Society (CNS) 2020 Virtual Conference, May 2020, *Poster presentation*.
(2) * Mathur, A., Schultz, D., **Wang, Y.**, Specialization of phonological and semantic reading routes in early childhood, Great Plains IDeA-CTR Annual Meeting, Omaha, NE, October 2019, *Poster presentation*.
(3) **Wang, Y.**, Sibaii, F., Custead, R., Oh, H., and Barlow, S.M., Functional connectivity evoked by saltatory pneumotactile stimuli on the glabrous hand, Organization of Human Brain Mapping (OHBM) 2019 conference, Rome, Italy, June 2019, *Poster presentation*.
(4) * Grybas, E.A., Nguyen, L., Trat Thai, T.T.K., Mathur, A., **Wang, Y.**, White Matter Characteristics in Pre-Preaders, University of Nebraska-Lincoln, Spring Research Fair, Lincoln, NE, April 2019, *Poster presentation*.
(5) * Mathur, A., Sibaii, F., **Wang, Y.**, Neural specialization of reading in young children, Cognitive Neuroscience Society (CNS), San Francisco, March 2019, *Poster presentation*.
(6) * Munn, L., Watkins, E., Walters, N., Sibaii, F., **Wang, Y.**, Brain connectivity related to executive function in children with and without a familial risk for dyslexia, University of Nebraska-Lincoln, Spring Research Fair, Lincoln, NE, April 2019, *Poster presentation*.
(7) Turesky, T., Jensen, S., Yu, X., Kumar, S., **Wang, Y.**, Sliva, D., Borjan, G., Sanfilippo, J., Haque, R., Kakon, S. H., Islam, N., Petri, W. J., Nelson, C., Gaab, N., The 6th Annual Flux Congress, "The relationship between poverty and resting-state functional connectivity in 2-month old Bangladeshi infants," Podium Conference Specialists, Berlin, Germany, Bangladesh. August 2018, *Oral presentation*.
(8) * Ozernov-Palchik, O., Norton, E., **Wang, Y.**, Beach, S., Zuk, J., Wolf, M., Gabrieli, J., Gaab, N., The relationships among SES, white matter, and reading development: a longitudinal investigation from kindergarten to 2nd grade, Twenty-Fifth Annual Meeting Society for the Scientific Study of Reading (SSSR), July 2017, *Oral presentation*.
(9) * Ozernov-Palchik, O., Norton, E., **Wang, Y.**, Beach, S., Zuk, J., Wolf, M., Gabrieli, J., Patel, A., Gaab, N., White matter integrity in kindergarten predicts rhythm performance in 2nd grade, The Neurosciences and Music – VI, Music, Sound and Health, Boston, June 2017, *Poster presentation*.
(10) * Zuk, J., Becker, B., Perdue, M., Yu, X., **Wang, Y.**, Chang, M., Raschle, N., Gaab, N., Neural correlates of phonological processing: disrupted in children with reading impairment and enhanced in children with musical training, The Neurosciences and Music – VI, Music, Sound and Health, Boston, June 2017, *Poster presentation*.
(11) * Zuk, J., Dunstan, J., Norton, E., Ozernov-Palchik, O., **Wang, Y.**, Gabrieli, J., Gaab, N., Investigating protective and compensatory mechanisms in kindergarteners at risk for reading impairment who subsequently develop typical reading skills, 29th APS Annual Convention, Boston, MA, May 2017, *Poster presentation*.
(12) **Wang, Y.**, Neural substrates of the executive attention network in children at-risk for dyslexia and typical controls, The dyslexia foundation, extraordinary brain symposium XV, The Buccaneer Hotel, St. Croix, US Virgin Islands. June 2016, *Oral presentation*.
(13) **Wang, Y.**, Mauer, M. Raney, T., Peysakhovich, B., Becker, B., Sliva, D., Gaab, N., Development of tract-specific white matter pathways during early reading development in children at familial risk for dyslexia, Cognitive Neuroscience Society Annual Meeting, New York, NY. April 2016, *Poster presentation*.
(14) **Wang, Y.**, Tract-specific white matter pathways during early reading development, Laboratories of Cognitive Neuroscience monthly meeting, Boston Children's Hospital, Boston, MA. November 2015, *Oral presentation*.
(15) **Wang, Y**., Mauer, M., Raney, T., Peysakhovich, B., Becker, B., Sliva, D., Gaab, N. White matter development in children at risk for dyslexia, The Neurodevelopmental Disorders Symposium, Boston, MA., October 2015, *Poster presentation*.
(16) **Wang, Y.**, Raschle, N.M., Sliva, D., Mauer, M., Powers, S., Becker, B., Peysakhovich, B., Gaab, N., Atypical development of executive function in pre-readers at familial risk for dyslexia: a longitudinal fMRI

study, 2nd annual meeting for New England Research on Dyslexia (NERDY) Society, October 2014, *Poster presentation*.

(17) * Sliva, D., Peysakhovich, B., **Wang, Y.**, Grant, P.E., Gaab, N., Dehaes, M., Resting state auditory network strength is related to age, brain structure and familial risk for developmental dyslexia in infants, 4th Biennial Conference on Resting State Brain Connectivity, Cambridge, MA. September 2014, *Poster presentation*.

(18) **Wang, Y.**, Atypical development of executive function in pre-readers at familial risk for dyslexia: a longitudinal fMRI study, Laboratories of Cognitive Neuroscience monthly meeting, Boston Children's Hospital, Boston, MA. July 2014, *Oral presentation*.

(19) * Zuk, J., **Wang, Y.**, Raschle, N.M., Becker, B., Chang, M., Gaab, N., Examining the neural correlates of rapid auditory processing and phonological processing in children with musical training, The 5th Annual Meeting of The Neurosciences and Music, Dijon, France, May 2014, *Poster presentation*.

(20) **Wang, Y.**, Raschle, N.M., Sliva, D., Dauvermann, M.R., Becker, B., Ozranov-Palchik, O., Peysakhovich, B., Smith, S.A., Figuccio, M., Zuk, J., Gaab, N., The development of phonological processing from the pre-reading to the beginning-reading stage in children with and without a familial risk for developmental dyslexia, The 21st Annual Cognitive Neuroscience Society Annual Meeting, Boston, April 2014, *Poster presentation*.

(21) **Wang, Y.**, Integration of fMRI and MEG towards modeling language networks in the brain, Fetal-Neonatal Neuroimaging & Developmental Science Center weekly meeting, Boston Children's Hospital, Boston, MA. March 2014, *Oral presentation*.

(22) **Wang, Y.**, Holland, S.K., Vannest, J., Concordance of MEG and fMRI Patterns in Adolescents during Verb Generation, Human Brain Mapping conference, Beijing, China, June 2012, *Poster presentation*.

(23) Holland, S.K., **Wang, Y.**, et al., Sex difference of white matter anisotropic diffusion in developing adolescent brain, Human Brain Mapping conference, Beijing, China, June 2012, *Poster presentation*.

(24) **Wang, Y.**, Preliminary MEG/fMRI Data I/II, MEG Users' Meeting, Cincinnati Children's Hospital, OH. August and September 2009, *Oral presentation*.

(25) **Wang, Y.**, Focus on the brain - Human Brain Mapping 2009 conference summary, MEG Users' Meeting, Cincinnati Children's Hospital, OH. July 2009, *Oral presentation*.

(26) **Wang, Y.**, Xiang, J., et al., Neuromagnetic measures of word processing in bilinguals and monolinguals, Human Brain Mapping conference, San Francisco, CA. June 2009, *Poster presentation*.

Presentations – Outreach Activities

(1) *Neural Pathways Supporting Reading Development in Children Who Are Deaf/Hard Of Hearing*, University of Nebraska-Omaha, The Deafness, Cognition and Language Research Centre, University College London, London, U.K., June 2019, *Oral Presentation*.

(2) *Neural Plasticity in Individuals Who Receive Cochlear Implant (s)*, Nottingham Biomedical Research Centre, National Institute for Health Research, Nottingham, U.K., June 2019, *Oral Presentation*.

(3) *Science After Dark – About the Brain*, Archie's Late Night Party, University of Nebraska State Museum, Lincoln, NE., June 2019, *Interactive format with hands-on activities*.

(4) *Understanding the Reading Brain – advocating Brain Research for children who are deaf/hard of hearing*, Library Event, Southeast Nebraska Regional Program for Students Who are Deaf or Hard of Hearing, May 2019, *Oral Presentation*.

TEACHING

Courses

SLPA 992 section 006 Neuroimaging & Language Disorders
Department of Special Education & Communication Disorders, UNL
Designed course syllabus, created and presented lectures on basic neuroimaging techniques, literature review on the use of neuroimaging in various communication and language disorders. Fall 2016 – 2020

Provided hands-on experience in neuroimaging data analyses.

SLPA 992 section 007 Neural Basis of Reading
Department of Special Education & Communication Disorders, UNL — Spring 2017, Fall 2018, 2019
Designed course syllabus, created and presented lectures on reading development, neural bases of reading, and reading interventions.

SLPA992/998 or BSEN 896 Independent Study
Department of Special Education & Communication Disorders & Department of Biological System Engineering, UNL
Taught graduate students from both Speech-Language Pathology and Biomedical Engineering to learn about neuroimaging techniques. — Fall 2017 – 2019, Spring 2019, 2020, Summer 2017 – 2020,
Provided hands-on experience for students to analyze various imaging data.
Taught students how to run their own experimental studies.
Taught students to practice critical thinking and form their own research questions.

SLPA 898 Directed Research/Research other than Thesis
Department of Special Education & Communication Disorders, UNL
Direct speech-language pathology master student to do neuroimaging research. — Fall 2017 - 2019
Taught her how to write IRB protocols and how to analyze neuroimaging data.
Taught her how to generate final report to summarize research findings.

Neuroimaging Data Analysis
Department of Special Education & Communication Disorders & Center for Brain, Biology and Behavior, UNL
Designed course syllabus and created instructions on various neuroimaging data analysis techniques (MRI, fMRI, MEG, DTI). — Summer 2017, 2018
Provided sample data for students to practice and understand different neuroimaging data processing pipelines.

Neuroimaging course
Gaab Lab, Division of Developmental Medicine, Boston Children's Hospital
Designed course syllabus, created and presented 10 lectures on basic MRI principles, basic fMRI data analysis, and advanced neuroimaging data processing techniques. — Summer, Fall 2014
Designed and built the course website and provided trainees with hands-on materials.

Advanced Neuroimaging course
Cincinnati Children's Hospital
Organized the entire summer neuroimaging training course including inviting speakers and booking conference rooms. — Summer, 2013
Prepared 2 lectures on advanced imaging methods including independent component analysis and connectivity analysis.
Held 2 hands-on sessions and helped trainees with various analysis problems.

Bioinstrumentation
Taught ten 4-hour laboratory lectures covering basic principles of biopotential electrodes, analysis and selection of physical, electrical, mechanical, and thermal transduction mechanisms for four quarters. — Winter, Spring 2009, Winter, Spring 2012
Held weekly questions and answers sessions to provide additional help to students.
Graded students' laboratory reports, midterm, and final exams.

Student Mentoring (in reverse chronological order)

Postdoctoral Fellows

(1) Avantika Mathur, Ph.D., Neuroscience, National Brain Research Center, India, 03/2018 – Present

(2) Ying Chen, Ph.D., Industrial Engineering, University of Texas at Arlington, United States, 09/2017 – 12/2017

Graduate Students – Primary Advisor

(1) Soyoung Park, Ph.D. student in Speech-Language Pathology (SLP), Department of SECD, UNL, 01/2020 – Present.
(2) Caitlin Daly, M.S. student in SLP, Department of SECD, UNL, Thesis Title: "Neurological and Behavioral Effects of Melodic Intonation Therapy for Childhood Apraxia of Speech", Dr. Judy Harvey serves as co-advisor and guides her clinical work, 01/2020 – Present.
(3) Ceceli Bonitto, AuD. student, Audiology, Department of SECD, UNL, Capstone Project Title: "Neural Basis of Speech Perception in Adult Cochlear Implant Users", 08/2018 – Present.
(4) Bailey Heaton, AuD. student, Audiology, Department of SECD, UNL, Capstone Project Title: "Neural Basis of Speech Perception in Child Cochlear Implant Users", 08/2018 – Present.
(5) Fatima Sibaii, M.S. student in Biological Systems Engineering (BSE), Department of BSE, UNL, M.S. Thesis Title: "Real-Time Cerebrovascular Response during Pneumotactile Stimulation via Simultaneous fNIRS and fTCD", 08/2017– Present.
(6) Vanessa Whattam, M.S. student in SLP, Department of SECD, UNL, Directed Research Title: "Study the reading brain", 12/2017 – 05/2019.
(7) Poupack Baghery, M.S. student in Electric Engineering, Department of Computer and Electric Engineering, UNL, Independent Study Title: "Neuroimaging methods and their applications", 01/2019 – 05/2019.
(8) Jacob L. Greenwood, Ph.D. student in BSE, Department of BSE, Independent Study Title: "Neuroimaging techniques", 06/2017 – 08/2017.
(9) Mohsen Hozan, Ph.D. student in Biomedical Engineering, Department of BSE, Independent Study Title: "Neuroimaging techniques", 06/2017 – 08/2017.

Graduate Students – Academic Committee Member

(1) Claudia Cortes Reyes, M.S. in Biomechanics, Department of Biomechanics, University of Nebraska-Omaha, Thesis Title: "Assessment of Inter-limb Coordination in Prosthetic Users", Primary mentor: Dr. Jorge Zuniga, 01/2019 – Present.
(2) Christopher Copeland, M.S. in Biomechanics, Department of Biomechanics, University of Nebraska-Omaha, Thesis Title: "Effects of Gender in Novel Tool Use: Cortical and Functional Measures in Children using a Prosthetic Simulator", Primary mentor: Dr. Jorge Zuniga, 01/2019 – Present.
(3) Ross Westemeyer, Ph.D. in Human Science, Department of SECD, UNL, Primary mentor: Dr. Angela Dietsch, 08/2018 – Present.
(4) Tamrat Teshome, Ph.D. in Human Science, Department of Child, Youth and Family Studies, UNL, Thesis Title: "Adverse Childhood Experiences And Adolescent Mental Health Problems", Primary mentor: Dr. Jeong-Kyun Choi, 08/2018 – Present.
(5) Jacob L. Greenwood, Ph.D. in BSE, Department of BSE, University of Nebraska-Lincoln, Thesis Title: "Multimodal assessment of somatosensory stimulation in acute cerebrovascular infarction", Primary mentor: Dr. Steven M. Barlow, 05/2017 – Present.
(6) Sangeeta Nair, Ph.D. in Behavioral Neuroscience, Department of Psychology, University of Alabama at Birmingham, Thesis Title: "Combining MEG and fMRI to examine dynamic task-related brain activity with high spatiotemporal resolution", Primary mentor: Dr. Jerzy P. Szaflarski, 02/2017 – Present.
(7) Amirsalar Mansouri, Ph.D. in Electrical & Computer Engineering, College of Engineering, University of Nebraska-Lincoln, Primary Mentor: Dr. Khalid Sayood, 08/2014 – Present.
(8) Elizabeth C. Hoffman, M.S. in SLP, Department of SECD, UNL, Thesis Title: "Vibrotactile Threshold Estimation in Neurotypical Children", Primary mentor: Dr. Steven M. Barlow, Defended in 02/2020.
(9) Michaela K. Sullivan, M.S. in SLP, Department of SECD, UNL, Thesis Title: "Oral angle ramp-and-hold isomeric force dynamics in young neurotypical adults", Primary mentor: Dr. Steven M. Barlow, 04/2018 Mid-review for thesis, Defended in 03/2019.

(10) Alajandra Marquez, "Non-nutritive Suck Pattern Stability in Extremely Premature Infants as a Function of Pulmonary Status", M.S. in SLP, Department of SECD, UNL, Primary mentor: Dr. Steven M. Barlow, 04/2018 Mid-review for thesis.
(11) Lauren E. Wondra, M.S. in BSE, Department of BSE, UNL, Thesis Title: "Cerebral blood flow velocity hemodynamic values in critically ill infants under one year of age", Primary mentor: Dr. Gregory R. Bashford, Defended in 11/2017.
(12) Hyuntaek Oh, Ph.D. in Biomedical Engineering, Department of BSE, UNL, Thesis Title: "Brain encoding of salutatory velocity-scaled somatosensory array in glabrous hand among neurotypical adults", Primary mentor: Dr. Steven Barlow, Defended in 09/2016.
(13) Rebecca Custead, Ph.D. in Human Sciences, Department of SECD, UNL, Thesis Title: "Encoding of salutatory tactile velocity in the adult orofacial somatosensory system", Primary mentor: Dr. Steven Barlow, Defended in 07/2016.

Undergraduate Students – Undergraduate Creative Arts and Research Experience (UCARE) in My Lab

(1) Marusha Ather, Department of BSE, UNL, Summer & Fall 2020, UCARE Team Project Title: "*Brain Activity of Cochlear Implant Users",* UCARE Award: $4800
(2) Ann Pham, Department of Biochemistry, UNL, Fall 2020, UCARE Team Project Title: "*Brain Activity of Cochlear Implant Users",* UCARE Award: $2400
(3) Patrick Wirball, Department of BSE, UNL, Fall 2020, UCARE Team Project Title: "*Brain Activity of Cochlear Implant Users*", UCARE Award: $2400
(4) Makayla Gill, Department of Chemistry, UNL, Fall 2019, UCARE Team Project Title: "*Understanding the Cochlear Implant*", UCARE Award: $2400
(5) Bergen Bruhn, Department of Psychology, UNL, Summer 2019, UCARE Team Project Title: "*Understanding the Cochlear Implant*", UCARE Award: $2400
(6) Grace Carlson, Department of BSE, UNL, Summer 2019, UCARE Team Project Title: "*Understanding the Cochlear Implant*", UCARE Award: $2400
(7) Grace Oh, Department of Biochemistry, UNL, Summer 2019, UCARE Team Project Title: "*Understanding the Cochlear Implant*", UCARE Award: $2400
(8) Emily Grybas, Department of SECD, UNL, Fall 2018, UCARE Team Project Title: "*Study the reading brain*", UCARE Award: $2400
(9) Linneaa Nguyen, Department of BSE, UNL, Fall 2018, UCARE Team Project Title: "*Study the reading brain*", UCARE Award: $2400
(10) Thy Thy Trat Thai, Department of BSE, UNL, Fall 2018, UCARE Team Project Title: "*Study the reading brain*", UCARE Award: $2400
(11) Nicole Walters, Department of Biology, UNL, Fall 2017, UCARE Team Project Title: "*Brain Connectivity Changes in Children with and without a Familial Risk for Dyslexia During Reading Development*", UCARE Award: $2400
(12) Laura Munn, Department of SECD, UNL, Fall 2016, 2017, UCARE Team Project Titles: "*Brain Connectivity Changes in Children with and without a Familial Risk for Dyslexia During Reading Development*", *and* "*Executive function in children at-risk for reading impairment*", UCARE Award: $4800
(13) Ellie Watkins, Department of SECD, UNL, Fall 2016, 2017, UCARE Team Project Titles: "*Brain Connectivity Changes in Children with and without a Familial Risk for Dyslexia During Reading Development*", *and* "*Executive function in children at-risk for reading impairment*", UCARE Award: $4800
(14) Katie Monson, Department of SECD, UNL, Fall 2016, UCARE Team Project Title: "*Executive function in children at-risk for reading impairment*", UCARE Award: $2400

Graduate and Undergraduate Student-Workers or Volunteers in My Lab

(1) Elaine Williams, Graduate Student Worker, Administering standardized assessments, M.S. student in SLP, Department of SECD, UNL, 11/2019 – Present.
(2) Taelor Williamson, Graduate Student Worker, Administering standardized assessments, M.S. student in SLP, Department of SECD, UNL, 11/2019 – Present.
(3) Seyedeh Dorsa Motevalli, Undergraduate Student Volunteer, Assisting with data entry, transcription, and other clerical support, B.S. student in BSE, Department of BSE, UNL, 10/2019 – 05/2020.

(4) Kymberly Caddell, Graduate Student Worker, Administering standardized assessments, Ph.D. student in Education Psychology, Department of Educational Psychology, UNL, 05/2019 – 12/2019.
(5) Tamrat Teshome, Graduate Student Volunteer, Assisting with data entry, transcription, and learning neuroimaging techniques, Ph.D. student in Human Science, Department of Child, Youth and Family Studies, UNL, 04/2019 – 09/2019.
(6) Randa Ismail, Undergraduate Student Volunteer, Assisting with data entry, transcription, and other clerical support, B.S. student in Biochemistry, Department of Biochemistry, UNL, 04/2019 – 09/2019.
(7) Grace Oh, Undergraduate Student Volunteer, Assisting with data entry, transcription, and other clerical support, B.S. student in Biochemistry, Department of Biochemistry, UNL, 05/2018 – 05/2019.
(8) Molly Thornbrugh, Undergraduate Student Volunteer, Assisting with data entry, transcription, and other clerical support, B.S. student in Audiology, Department of SECD, UNL, 08/2018 – 11/2018.
(9) Cristal Franco-Granados, Undergraduate Student Worker, Assisting with recruitment, data entry, data collection, and other clerical support, B.S. student in Biology, Department of Biology, UNL, 05/2018 – 08/2018.
(10) Michelle Rohman, Undergraduate Student Worker, Assisting with recruitment, data entry, data collection, and other clerical support, B.S. student in BSE, Department of BSE, UNL, 05/2018 – 08/2018.
(11) Joelly Anderson, Undergraduate Student Worker, Assisting with recruitment, B.S. student in SLP, Department of SECD, UNL, 05/2018 – 08/2018.
(12) Nicole Walters, Undergraduate Student Volunteer, B.S. student in Biology, Department of Biology, UNL, 09/2016 – 2017.
(13) Sarah Hughes Berheim, Undergraduate Student Volunteer, B.S. in Psychology, Department of Psychology, UNL, 10/2017 – 05/2018.
(14) Sampashree Nayak, Graduate Student Volunteer, M.S. in Educational Psychology, Department of Educational Psychology, UNL, 04/2016 – 03/2017.

SERVICE

Professional and Discipline Related Services

Grant Review

- NSF Science of Learning Panel Reviewer

Conference Review

- Organization of Human Brain Mapping

Journal Review (in Alphabetical Order)

- Aging
- Brain and Behavior
- Brain and Cognition
- Brain Connectivity
- Brain Imaging and Behavior
- Brain Structure and Function
- Child Neurology Open
- Child Neuropsychology
- Cortex
- Current Eye Research
- Developmental Science
- Dyslexia
- Ear and Hearing
- Frontiers in Human Neuroscience l Brain Imaging and Stimulation
- Frontiers in Neuroscience l Brain Imaging Methods
- Human Brain Mapping
- IEEE Access
- Journal of Experimental Child Psychology

- Journal of Neurolinguistics
- Journal of Medical Imaging and Health Informatics
- Journal of the International Neuropsychological Society
- Language, Cognition and Neuroscience
- Network: Computation in Neural Systems
- Neuroimaging Clinical
- Neuropsychologia
- PLoS One
- Psychiatry Research: Neuroimaging
- Psychology & Neuroscience
- The Journal of Pediatrics

Extracurricular University and Community Services (in reverse chronological order)

▪ NSLHA School Issues Committee Member	01/2020 – Present
▪ Educational Neuroscience Certification Committee member, Department of SECD and Educational Psychology, UNL	12/2018 – Present
▪ Graduate Governors committee member, Department of SECD, UNL	08/2018 – Present
▪ Biomedical Engineering (BME) Ph.D. Graduate Committee, UNL	10/2017 – Present
▪ Department of SECD Research Committee, UNL	01/2016 – Present
▪ Search committee member for CB3 Research Assistant for Dr. Cary Savage's Lab	03/2020 – 06/2020
▪ Send letter to Sen. Deb to join the Congressional Neuroscience Caucus and to join the NIH Caucus if they have not already done so. These neuroscience-related caucuses provide an opportunity for congress people to discuss and pursue common legislative objectives, as well as fight for more funding in the biomedical sciences.	01/2020
▪ Search Committee Member for CYFS Associate/Full Professor position	Fall 2019
▪ Led three groups of visitors to tour CB3	07/2019 – 12/2019
▪ Rater for Institute for International Teaching Assistants, UNL	09/2019
▪ Writing Postcards to No Admitted Students, UNL	03/2019
▪ Reviewer for GSA Travel Grant Awards Program Committee, UNL	Spring 2019
▪ Selection Committee Member for UCARE program, UNL	01/2019
▪ Led four groups of visitors to tour CB3	07/2019 – 12/2018
▪ Judger at the UNL Spring Research Fair	4/11/2018
▪ Reviewed posters at the UNL Graduate Poster Session	4/10/2018
▪ CB3 Director Search Committee, UNL	12/2016 – 04/2017
▪ Judged undergraduate posters at the UNL Spring Research Fair	4/4/2017
▪ Reviewed posters at the UNL Graduate Poster Session	4/5/2017
▪ Judger at the 2016 UNL Biomedical Graduate Posters	4/8/2016
▪ Health Sciences Graduate Association Webmaster (Cincinnati, OH)	2011 – 2012
▪ Health Sciences Graduate Association Representative (Cincinnati, OH)	2010 – 2011
▪ Volunteer at Ronald McDonald House (Cincinnati, OH)	2006 – 2013

Professional Memberships

▪ Society for the Neurobiology of Language	2019 – Present
▪ Nebraska Speech-Language-Hearing Association	2019 – Present
▪ American Speech-Language-Hearing Association	2019 – Present
▪ Association for Psychological Science	2017 – Present

- Society of Neuroscience 2015 – Present
- American Association for the Advancement of Science 2014 – Present
- Cognitive Neuroscience Society 2014 – Present
- IEEE Engineering in Medicine and Biology Society Membership 2010 – Present
- IEEE Women in Engineering Membership 2010 – Present
- Organization for Human Brain Mapping 2007 – Present

Media Coverage

- Brain imaging brings predictors for cochlear implantation success into focus, Nebraska Today News, 12/02/2019
- Guest speaker, talking about cochlear implant with Dr. Miller, KROF (960 AM or 103.3 FM) radio talk show, Broadcasted on 09/14/2019, and 09/21/2019
- Brain Awareness: Wang brings brain imaging expertise to SECD, Department News, 03/20/2017