Yingying Wang, Ph.D.

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EDUCATION

Ph.D., Biomedical Engineering University of Cincinnati, OH 2009 - 2013
+ Dissertation: "Integration of fMRI and MEG towards modeling language networks in the brain", Advisor: Dr. Scott K. Holland

M.S., Biomedical Engineering Shanghai University, Shanghai, China 2002 - 2005
+ Dissertation: "Three-dimensional reconstruction technique of image from digital subtraction angiography (DSA)", Advisor: Dr. Weicheng Zhang

B.S., Biomedical Engineering Shanghai University, Shanghai, China 1998 - 2002
+ Dissertation: "Collection, conversation and net transport of medical signal", Advisor: Dr. Weicheng Zhang

PROFESSIONAL EXPERIENCE

Assistant Professor University of Nebraska-Lincoln, NE 2016/01 - present
+ Establish Neuroimaging lab and stimulate Neuroimaging research in the department.
+ Research focuses are to use Neuroimaging techniques to study brain of children with reading/learning impairment or autism.

Post-doc Research Fellow Boston Children's Hospital, MA 2014/01 – 2015/12
+ Supervisor: Dr. Nadine Gaab
+ Built data processing pipeline in MATLAB to analyze functional magnetic resonance imaging (fMRI) and diffusion weighted imaging data in order to learn about dyslexia and to explore the bio-markers for early identification of children at risk for dyslexia.

Graduate Research Assistant Cincinnati Children's Hospital, OH 2009/09 – 2013/12
+ Supervisor: Dr. Scott K. Holland
+ Developed MATLAB tools to combine functional magnetic resonance imaging and Magnetoencephalography data in order to study language function and language networks.

Research Assistant III Cincinnati Children's Hospital, OH 2006/06 – 2009/09
+ Supervisor: Dr. Jing Xiang
+ Recruited about 150 children to participate in a Magnetoencephalography (MEG) study.
+ Collected MEG data with different paradigms.
+ Collaborated with clinical doctors and helped them design and set up their MEG studies.
+ Trained many undergraduate students and visiting scholars from China on how to use MEG.

Research Assistant Hospital for Sick Children, Toronto, Canada 2005/11 – 2006/06
+ Supervisor: Dr. Jing Xiang

+ Developed MEG signal processing toolbox.

Graduate Research Assistant Shanghai University, Shanghai, China 2002/09 – 2005/03
+ Supervisor: Dr. Weicheng Zhang
+ Developed a software package which connects two computers through series interface.
+ Developed a MATLAB program to simulate digital subtraction angiography (DSA) signals.

TEACHING EXPERIENCE

Brain research seminar University of Nebraska-Lincoln, NE Spring 2017
+ Prepared course syllabus, created and presented 14 lectures on basic neuroimaging techniques, literature review on topics including traumatic brain injury in children and adults.
+ Provided hands-on experience on Near-infrared spectroscopy (NIRS) system.

Research in reading & literacy University of Nebraska-Lincoln, NE Fall 2016
+ Prepared course syllabus, created and presented 15 lectures on language and reading development, neuroimaging research studies in language and reading impairments, and interventions.

Neuroimaging course Boston Children's Hospital, MA Summer and Fall 2014
+ Prepared course syllabus, created and presented 10 lectures on basic MRI principles, basic fMRI data analysis, and advanced neuroimaging data processing techniques.
+ Established the course website and provided trainees with hands-on materials.

Neuroimaging course Cincinnati Children's Hospital, OH Summer 2013
+ Organized the entire summer neuroimaging training course including inviting speakers and booking conference room.
+ 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 University of Cincinnati, OH Winter, Spring 2009, Winter, Spring 2012
+ 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.
+ Held weekly questions and answers sessions to provide additional help to students.
+ Graded students' laboratory reports, midterm, and final exams.

HONORS, FELLOWSHIPS AND Awards

+ The Fellow Award, Division of Developmental Medicine, Boston (1 out of 50) 2015
+ Cognitive Neuroscience Society People's Choice Award Poster (1 out of 300 posters) 2014
+ NIH funded Neuroimaging Training Award, University of California, LA Summer 2014
+ Graduate Student Research Fellowship (top 27%), University of Cincinnati Summer 2012
+ Conference Travel Awards ($800), University of Cincinnati 2012, 2013
+ Shanghai Outstanding Graduate Student Award (top 5%) 2005
+ Special Grade Scholarship ($650), Shanghai University, Shanghai, China 1998 - 1999
+ First Grade Scholarship ($325), Shanghai University, Shanghai, China 1999 - 2001
+ Merit Student, Shanghai University, Shanghai, China 1998 - 2005

PEER-REVIEWED PUBLICATIONS

(1) **Wang, Y.**, Mauer, M., Raney, T., Peysakhovich, B., Becker, B., Sliva, D., Gaab, N., (2016) Development of tract-specific white matter pathways during early reading development in children at familial risk for dyslexia, *Cerebral Cortex,* bhw095v1-bhw095
(2) Powers, S., **Wang, Y.,** Sideridis, G., 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,* [In press]
(3) 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, *Neuroscience of education*, 10: 45-58.
(4) 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*, 205: 109-116.
(5) 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.
(6) Raschle, N., Becker, B., Smith, S., Fehlbaum, L., **Wang, Y.**, Gaab, N., (2015) Investigating the influences of language delay and/or familial risk for dyslexia on brain structure in 5-year-olds, *Cerebral Cortex*, Nov.18.2015
(7) **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.
(8) Szaflarski, J., **Wang, Y.**, Altaye, M., Rajagopal, A., Byars, A., Plante, E., Holland, S.K., (2014) Ten years in the making a longitudinal study of language development in children and adolescents. *Neurology*, 82 (10 supplement): 337.
(9) 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.
(10) Horowitz-Kraus, T., Vannest, 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*, Sep.21.2014.
(11) Gummadavelli, A., **Wang, Y.**, et al. (2013) Spatiotemporal and frequency signatures of word recognition in the developing brain: A magnetoencephalographic study. *Brain Research*, 1498: 20-32.
(12) Korostenskaja, M., Harris, E., Giovanetti, C., Horn, P., **Wang, Y.**, et al. (2013) Magnetoencephalography reveals altered auditory information processing in youth with obsessive-compulsive disorder. *Psychiatry Research: Neuroimaging*, 212 (2): 132-140.
(13) **Wang, Y.**, Adamson, C., Yuan, W., Altaye, M., Rajagopal, A., Holland, S.K., (2012) Sex differences in white matter development during adolescence: a DTI study, *Brain Research*, 1478: 1-15.
(14) **Wang, Y.**, Holland, S.K., Vannest, J., (2012) Concordance of MEG and fMRI patterns in adolescents during verb generation. *Brain Research*, 1447:79-90
(15) Guo, X., Xiang, J., **Wang, Y.**, et al. (2012) Aberrant Neuromagnetic Activation in the Motor Cortex in Children with Acute Migraine: A Magnetoencephalography Study. *Plos one*, 7 (11): e50095.

(16) **Wang, Y.**, Xiang, J., Vannest, J., Holroyd, T., Narmoneva, D., Horn, P., et al. (2011) Neuromagnetic measures of word processing in bilinguals and monolinguals. *Clinical Neurophysiology*, 122(9): 1706-1717.
(17) Zhang, R., Wu, T., **Wang, Y.**, et al., (2011) Interictal magnetoencephalographic findings related with surgical outcomes in lesional and nonlesional neocortical epilepsy, *Seizure*, 20(9): 692-700.
(18) Korostenskaja, M., Pardos, M., Kujala, T., Rose, D.F., Brown, D., Horn, P., **Wang, Y.**, et al., (2011) Impaired Auditory Information Processing During Acute Migraine: A Magnetoencephalography Study. *International Journal of Neuroscience*, 121(7): 355-365.
(19) Guo, X., Xiang, J., Mun-Bryce, S., Bryce, M., Huang, S., Huo, X., **Wang, Y.**, et al., (2011) Aberrant high-gamma oscillations in the somatosensory cortex of children with cerebral palsy: A MEG study. *Brain and Development*, 34 (7): 576-583.
(20) Huo, X., **Wang, Y.**, Kotecha, R., Kirtman, E. G., Fujiwara, H., Hemasilpin, N., et al. (2010). High Gamma Oscillations of Sensorimotor Cortex During Unilateral Movement in the Developing Brain: a MEG Study. *Brain Topography*, 23(4): 375-384.
(21) Xiang, J., **Wang, Y.**, Chen, Y., Liu, Y., Kotecha, R., Huo, X., et al. (2010) Noninvasive localization of epileptogenic zones with ictal high-frequency neuromagnetic signals. Journal of Neurosurgery: *Pediatrics*, 5: 113-122.
(22) Chen, Y., Xiang, J., Kirtman, E., **Wang, Y.**, et al., (2010) Neuromagnetic biomarkers of visuocortical development in healthy children. *Clinical Neurophysiology*, 121(9): 1555-1562.
(23) Wang, X., Xiang, J., **Wang, Y.**, Pardos, M., Meng, L., Huo, X., et al. (2010) Identification of Abnormal Neuromagnetic Signatures in the Motor Cortex of Adolescent Migraine. *Headache*, 50(6): 1005-1016.
(24) Huo, X., Xiang, J., **Wang, Y.**, Kirtman, E. G., Kotecha, R., Fujiwara, H., et al. (2010) Gamma oscillations in the primary motor cortex studied with MEG. *Brain and Development*, 32(8): 619-624.
(25) Korostenskaja, M., Pardos, M., Fujiwara, H., Kujala, T., Horn, P., Rose, D., Byars, A., Brown, D., Seo, J.H., **Wang, Y.**, et al., (2010) Neuromagnetic evidence of impaired cortical auditory processing in pediatric intractable epilepsy. *Epilepsy Research*, 92(1): 63-73.
(26) Xiang, J., Liu, Y., **Wang, Y.**, Kotecha, R., Kirtman, E., Chen, Y., et al. (2009) Neuromagnetic correlates of developmental changes in endogenous high-frequency brain oscillations in children: A wavelet-based beamformer study. *Brain Research*, 1274(5): 28-39.
(27) Xiang, J., Liu, Y., **Wang, Y.**, Kirtman, E., Kotecha, R., Chen, Y., et al. (2009) Frequency and spatial characteristics of high-frequency neuromagnetic signals in childhood epilepsy. *Epileptic disorders*, 11(2): 113-125.
(28) Kotecha, R., Pardos, M., **Wang, Y.**, Wu, T., Horn, P., Brown, D., et al., (2009) Modeling the Developmental Patterns of Auditory Evoked Magnetic Fields in Children. *PLoS ONE*, 4(3): e4811.
(29) Kotecha, R., Xiang, J., **Wang, Y.**, et al. (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.
(30) **Wang, Y.**, Xiang, J., Kotecha, R., Vannest, J., Liu, Y., Rose, D., et al. (2008) Spatial and Frequency Differences of Neuromagnetic Activities Between the Perception of Open-and Closed-class Words. *Brain Topography*, 21(2): 75-85.

(31) Liu, Y., Xiang, J., **Wang, Y.**, et al. (2008) Spatial and Frequency Differences of Neuromagnetic Activities in Processing Concrete and Abstract Words. *Brain Topography*, 20(3): 123-129.
(32) **Wang, Y.**, Zhang, W., (2005) Design of 3D Reconstruction DSA System on Personal Computer. *Control & Automation*, 27: 105-107.
(33) **Wang, Y.**, Zhang, W., (2004) The Technology of Digital Subtraction Angiography, *China Medical Devices Information*, 10(6): 1-4.

INVITED PRESENTATIONS

(1) **Wang, Y.**, "Brain connectivity changes in children with and without a familial risk for dyslexia during reading development", Center for Brain, Biology and Behavior, Magnetic Resonance Imaging (MRI) Users' meeting, Lincoln, NE, Dec.2016

(2) **Wang, Y.**, "White Matter Development in at-risk children and typical controls", University of Nebraska Medical Center, Department of pharmaceutical sciences-seminar, Omaha, NE, Oct.2016

(3) **Wang, Y.**, "Reading Development in Children", Department of Psychology, Cabin talk, Lincoln, NE, Sep.2016

(4) **Wang, Y.**, "White Matter Development in Children", Center for Brain, Biology and Behavior, Magnetic Resonance Imaging (MRI) Users' meeting, Lincoln, NE, Apr.2016

(5) **Wang, Y.**, "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, Apr.2016

(6) **Wang, Y.**, "White matter development in children at risk for dyslexia", Biomedical Engineering seminar series, University of Nebraska-Lincoln, Lincoln, NE, Mar.2016

(7) **Wang, Y.**, "Brain research on reading and language development", Department of Special Education and Communication Disorders, Brown bag talk, Lincoln, NE, Feb.2016

(8) **Wang, Y.**, "FMRI and MEG data fusion", Research Department of Biomedical Engineering in Institute of Electrical Engineering, Chinese Academy of Sciences (IEECAS), Beijing, China, Jun.2012

(9) **Wang, Y.**, "Integration of fMRI and MEG in language network", First MRI-71 conference, Cincinnati Children's Hospital, OH. Jul.2011

ORAL PRESENTATIONS

(1) **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. Jun.23.2016, *Oral presentation*.
(2) **Wang, Y.**, Tract-specific white matter pathways during early reading development, Laboratories of Cognitive Neuroscience monthly meeting, Boston Children's Hospital, Boston, MA. Nov.13.2015, *Oral presentation*.
(3) **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, Oct.24.2014, *Poster presentation*.

(4) **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. Jul.9.2014, *Oral presentation*.

(5) **Wang, Y.**, Raschle, N., Sliva, D., Dauvermann, M., Becker, B., Ozranov-Palchik, O., Peysakhovich, B., Smith, S., 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 family risk for developmental dyslexia, Cognitive Neuroscience Society (CNS), Apr.5 - 8.2014, *Poster presentation*.

(6) **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. Mar.18.2014, *Oral presentation*.

(7) **Wang, Y.**, Holland, S.K., Vannest, J., Concordance of MEG and fMRI Patterns in Adolescents during Verb Generation, Human Brain Mapping conference, Beijing, China, Jun.10 - 14.2012, *Poster presentation*.

(8) **Wang, Y.**, Preliminary MEG/fMRI Data I/II, MEG Users' Meeting, Cincinnati Children's Hospital, OH. Aug.27 and Sep.10.2009, *Oral presentation*.

(9) **Wang, Y.**, Focus on the brain - Human Brain Mapping 2009 conference summary, MEG Users' Meeting, Cincinnati Children's Hospital, OH. Jul.2.2009, *Oral presentation*.

(10) **Wang, Y.**, Xiang, J., et al., Neuromagnetic measures of word processing in bilinguals and monolinguals, Human Brain Mapping conference, San Francisco, CA. Jun.18 - 23.2009,

CONFERENCE PROCEEDINGS AND ABSTRACTS/POST PRESENTATIONS

(1) **Wang, Y.**, Mauer, M. Raney, T., Peysakhovich, B., Becker, B., Sliva, D., Gaab, N. (2016) Development of tract-specific white matter pathways during early reading development in children at familial risk for dyslexia, Cognitive Neuroscience Society, New York, NY. April 3.

(2) **Wang, Y**., Mauer, M., Raney, T., Peysakhovich, B., Becker, B., Sliva, D., Gaab, N. (2015) White matter development in children at risk for dyslexia, The Neurodevelopmental Disorders Symposium, Boston, MA. October.

(3) **Wang, Y.**, Raschle, N.M., Sliva, D., Mauer, M., Powers, S., Becker, B., Peysakhovich, B., Gaab, N. (2014) Atypical development of executive function in pre-readers at familial risk for dyslexia: A longitudinal fMRI study. The 2nd Annual Meeting of the New England Research on Dyslexia (NERDY) Society, Boston, MA. October 2014.

(4) Sliva, D., Peysakhovich, B., **Wang, Y.**, Grant, P.E., Gaab, N., Dehaes, M., (2014) 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 11-13.

(5) Zuk, J., **Wang, Y.**, Raschle, N.M., Becker, B., Chang, M., Gaab, N. (2014). 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.

(6) **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. (2014). 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 Meeting, Boston, April 2014.

(7) Holland, S.K., **Wang, Y.**, et al. (2012) Sex difference of white matter anisotropic diffusion in developing adolescent brain, Human Brain Mapping conference, Beijing, China, June 10 - 14.

(8) **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.

(9) 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.

(10) 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.

(11) 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.

(12) 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.

(13) 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.

RESEARCH GRANTS

ONGOING

(1) Drs. Charles Nelson (PI) and Nadine Gaab (Co-PI), Bill & Melinda Gates foundation, **$1,267,354**, 05/01/16-03/31/17

Brain imaging as measure of future cognitive outcomes in children

The goal of this project was to demonstrate that the brain development of infants in developing country like Bangladesh can be measured using brain imaging techniques including structure and functional magnetic resonance imaging (fMRI) and diffusion weighted imaging (DWI), which can be related to future cognitive outcomes.

My Role: I am the research consultant on imaging data analysis. I am 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.

UNDER REVIEW

(1) Dr. Yingying Wang (PI), University of Nebraska-Lincoln, **$10,000**, 06/01/17-05/31/18
Brain connectivity changes in children with and without a familial risk for dyslexia during reading development
The goal of this project was to demonstrate that the brain development of children during reading development.
My Role: Principle Investigator, design and implement study protocols.
(2) Dr. Yingying Wang (PI), Searle Scholars Program, **$300,000**, 07/01/17-06/30/20
How brain wires during reading development

COMPLETED

(1) Dr. Nadine Gaab (PI), 1R01 HD065762-03, **$1,898,740**, 03/15/11-03/31/16
Neural Pre-markers of Dyslexia in Children Prior to Reading Onset: A Longitudinal fMRI Study
The major goal of this project was to comprehensively characterize brain function and morphology in children with and without a family history of developmental dyslexia prior to the onset of reading and longitudinally follow these children's brain development.
My Role: I am postdoc fellow and in charge of analyzing functional, and DTI data.
(2) Drs. Ellen Grant (PI) and Nadine Gaab (Co-PI), Abbott Fund, $**1,811,464**, 09/01/13-08/31/16
Developing Advanced MRI Methods for Detecting the Impact of Nutrients on Infant Brain Development
The goal of the research was to demonstrate the usefulness of MRI in identifying the effects of diet on brain development, particularly the differences between breast fed and formula fed infants.
My Role: I am postdoc fellow and in charge of analyzing functional, and DTI data.
(3) Dr. Scott K. Holland (PI), 1R01 HD038578-09/10/10S1, $**534,823**, 07/01/09-06/30/12
FMRI of normal language development in children
The goal of the research was to demonstrate the brain development during language development in a large cohort (>300) using advanced neuroimaging techniques.
My Role: I am doctoral student and in charge of neuroimaging data collection and analysis.

STUDENT MENTORING

ACADEMIC COMMITTEE MEMBER

(1) Hyuntaek Oh, Biological Engineering, University of Nebraska-Lincoln, Sep.2016, Doctor of Philosophy, Ph.D., Dissertation title: "Brain encoding of salutatory velocity-scaled somatosensory array in glabrous hand among neurotypical adults", Primary mentor: Dr. Steven Barlow.

(2) Rebecca Custead, Human Sciences, University of Nebraska-Lincoln, Jul.2016, Doctor of Philosophy, Ph.D., Dissertation title: "Encoding of salutatory tactile velocity in the adult orofacial somatosensory system", Primary mentor: Dr. Steven Barlow.

UNDERGRADUATE CREATIVE ARTS AND RESEARCH EXPERIENCE (UCARE)

(1) Katie Monson, Department of Special Education and Communication Disorders, University of Nebraska-Lincoln, 2016-Present, *Executive function in children at-risk for reading impairment*.

(2) Laura Munn, Department of Special Education and Communication Disorders, University of Nebraska-Lincoln, 2016-Present, *Executive function in children at-risk for reading impairment*.
(3) Ellie Watkins, Department of Special Education and Communication Disorders, University of Nebraska-Lincoln, 2016-Present, *Executive function in children at-risk for reading impairment*.

PROFESSIONAL MEMBERSHIPS

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

PROFESSIONAL AND DISCIPLINE RELATED SERVICES

+ Human Brain Mapping Conference Abstract Reviewer	2009 – Present
+ Psychology & Neuroscience Reviewer	2015 – Present

EXTRACURRICULAR UNIVERSITY AND COMMUNITY SERVICES

+ Department Research Committee	2015 – Present
+ Volunteer at Ronald McDonald House – Cincinnati, OH	2006 - 2013
+ Health Sciences Graduate Association Representative	2010 - 2011
+ Health Sciences Graduate Association Webmaster	2011 - 2012

LANGUAGES

+ Chinese: native proficiency.
+ English: full professional proficiency.