**Ryan J. Herringa, MD, PhD**

**Personal Data**

Office Address

University of Wisconsin School of Medicine & Public Health

Department of Psychiatry

6001 Research Park Blvd.

Madison, WI 53719

Phone: (608) 263-6068

Email: [herringa@wisc.edu](mailto:herringa@wisc.edu)

**Education**

Undergraduate

University of Wisconsin – Madison, 1993-1997

B.S., German and Molecular Biology, with honors

Graduate/Medical School

University of Wisconsin Medical Scientist Training Program, 1997-2006

Ph.D., Neuroscience, conferred August 2004

M.D. conferred May 2006

Residency

University of Pittsburgh Medical Center, 2006-2009

Psychiatry, Research Track

Postgraduate/Fellowship

University of Pittsburgh Medical Center, 2009-2011

Child and Adolescent Psychiatry, Research Track

**Certification and Licensure**

Specialty/Subspecialty Certification

General Psychiatry Diplomate, 2011, ABPN #62884

Child and Adolescent Psychiatry Diplomate, 2012, ABPN #7677

Medical or Other Professional Licensure

MD License, Pennsylvania 2008-2014

MD License, Wisconsin 2011-present

DEA License, 2008-present

Opioid Treatment Waiver, 2009-present

**Present Appointment/Position**

Assistant Professor of Psychiatry, 2011-present

Affiliate Faculty, Clinical Psychology Program, 2016-present

**Past Appointments/Positions**

Chief Resident for the Psychiatry Residency Research Track, University of Pittsburgh Medical Center, 2010-11

**Professional Society Memberships**

Society of Biological Psychiatry, 2014-present

Wisconsin Council of Child and Adolescent Psychiatry, 2011-present

American Academy of Child and Adolescent Psychiatry, 2009-present

Pittsburgh Regional Organization of Child and Adolescent Psychiatry, 2009-2011

Pennsylvania Psychiatric Society, 2006-2011

American Psychiatric Association, 2004-2014

Society for Neuroscience, 2000-2009

**Honors and Awards**

Career Development Travel Award, Anxiety and Depression Association of America, 2014

Domestic Travel Fellowship Award, Society of Biological Psychiatry, 2013

APA Mind Games, Finalist Team, 2011

AACAP Educational Outreach Program Travel Award, 2010

APA Research Colloquium for Junior Investigators, 2010

Career Development Institute for Psychiatry, 2010

Young Scholar Travel Award, Translational Research on Child Neglect Consortium, 2009

NIMH Brain Camp, 2009

NIMH Outstanding Resident Award, 2008

Fellow, NIMH Conference Series on Comparative and Primate Research, 2008-2009

Wisconsin Symposium on Emotion Fellow/Scholar, 2007/8/9

**Grant Support**

Current

Neural basis of emotion regulation in pediatric post-traumatic stress disorder, National Institute of Mental Health K08 MH100267, 2014-2019, 9 calendar. Role: PI.

Dopamine enhancement of fear extinction learning in PTSD, National Institute of Mental Health R21/R33 MH108753, 2015-2020. Role: Co-I (PI: Cisler).

A critical test of neural models of risk among adolescent assault victims, National Institute of Mental Health R21 MH106860, 2015-2018. Role: Co-I (PI: Cisler).

Pending

Normative and atypical trajectories of cognitive-emotional development in adolescence, National Institute of Mental Health R01. Role: PI.

Neurobehavioral mechanisms of parent-child extinction learning in adolescent PTSD, National Institute of Mental Health R01. Role: PI.

Computational modeling of approach-avoidance conflict in pediatric PTSD, National Institute of Mental Health R01. Role: co-PI.

Sleep and emotion processing in pediatric PTSD, National Institute of Mental Health R01. Role: co-I (PI: Jones).

Gut microbiome abnormalities and treatment response in adolescent depression, Wisconsin Partnership Program. Role: co-PI.

Major Past Awards

Neural substrates of fear processing in pediatric post-traumatic stress disorder (PTSD), University of Wisconsin – Madison 2014 Fall Research Competition, 2015-2016, post-doctoral fellow support.

Neural Substrates of Post-Traumatic Stress Disorder (PTSD) in Youth, Brain & Behavior Research Foundation NARSAD Young Investigator Grant, 2013-2015.

Neural Basis and Treatment of Youth Post-Traumatic Stress Disorder (PTSD), University of Wisconsin Institute for Clinical and Translational Research Translational Pilot Grant Award, 2013-2014

Neural Substrates of Post-Traumatic Stress Disorder (PTSD) in Youth, American Academy of Child and Adolescent Psychiatry Junior Investigator Award, 2011-2013

Functional brain changes in young adult combat veterans with PTSD: Impacts of childhood maltreatment and current sleep patterns, American Academy of Child and Adolescent Psychiatry Pilot Research Award, 2010-2011.

CRH-binding Protein: A Regulator of CRH in Stress, National Institute of Mental Health Individual National Research Service Award F30 MH065109, 2001-2005.

**Publications**

Refereed Articles

Keding TJ, Papale LA, Alisch RS, **Herringa RJ**. Epigenetic abnormalities associated with altered frontolimbic circuitry in pediatric PTSD. In preparation.

Heyn SA, Keding TJ, Ross MC, Cisler J, Mumford JA, **Herringa RJ**. Abnormal frontolimbic development in pediatric posttraumatic stress disorder: a longitudinal structural and functional MRI study. In revision.

Cisler JM, Privratsky A, Smitherman S, **Herringa RJ**, Kilts CD. Large-scale brain organization during facial emotion processing as a function of early life trauma among adolescent girls. *Neuroimage: Clinical*. 2018. 17:778-785.

Banihashemi L, Wallace ML, Sheu LK, Lee MC, Gianaros PJ, Mackenzie RP, Insana SP, Germain A, **Herringa RJ**. Childhood maltreatment moderates the effect of combat exposure on cingulum structural integrity. *Development and Psychopathology* (invited article by Dante Cicchetti, PhD). 2017. 29(5):1735-1747.

**Herringa RJ**. Trauma, PTSD, and the developing brain. *Current Psychiatry Reports* (invited review via Matthew Friedman, MD, PhD). 2017. 19:69.

Keding TJ, **Herringa RJ**. Paradoxical prefrontal-amygdala recruitment to happy and angry expressions in pediatric post-traumatic stress disorder. *Neuropsychopharmacology.* 2016. 41(12):2903-2912.

Kudek MR, Luyet F, **Herringa RJ**, Knox BL. Restrictive diet control as a means of child abuse. *Pediatric Emergency Care*. Published online Mar 2016.

**Herringa RJ**, Burghy CA, Stodola DE, Fox ME, Davidson RJ, Essex MJ. Enhanced prefrontal-amygdala connectivity following childhood adversity as a protective mechanism against internalizing in adolescence. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 2016. 1(4):326-334.

Subject of commentary by Drs. Amanda Guyer and Scott Rauch: Neural and behavioral tuning after early life adversity: Connecting the dots. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 2016. 1(4):305-307.

Insana SP, Banihashemi L, **Herringa RJ**, Kolko DJ, Germain A. Childhood maltreatment is associated with altered frontolimbic neurobiological activity during wakefulness in adulthood. *Development and Psychopathology*. 2016. 28(2):551-564.

Patriat R, Birn RB, Keding TJ, **Herringa RJ**. Default mode network abnormalities in pediatric post-traumatic stress disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*. 2016. 55(4):319-27

Wolf RC, **Herringa RJ**. Prefrontal-amygdala dysregulation to threat in pediatric post-traumatic stress disorder. *Neuropsychopharmacology*. 2016. 41(3):822-31.

Keding TJ, **Herringa RJ**. Abnormal structure of fear circuitry in pediatric post-traumatic stress disorder. *Neuropsychopharmacology*. 2015. 40(3):537-45.

Birn RM, Patriat R, Phillips ML, Germain A, **Herringa RJ**. Childhood maltreatment and combat post-traumatic stress differentially predict fear-related fronto-subcortical connectivity. *Depression and Anxiety*. 2014. 31(10):880-92.

**Herringa RJ**, Birn RM, Ruttle PL, Burghy CA, Stodola DE, Davidson RJ, Essex MJ. Childhood maltreatment is associated with altered fear circuitry and increased internalizing symptoms by late adolescence. *Proceedings of the National Academy of Sciences*. 2013. 110(47):19119-24.

**Herringa RJ**, Phillips ML, Fournier JC, Kronhaus DM, Germain A. Childhood and adult trauma both correlate with dorsal anterior cingulate activation to threat in combat veterans. *Psychological Medicine*. 2013. 43(7): 1533-42.

Germain A, James J, Insana S, **Herringa RJ**, Mammen O, Price J, Nofzinger EA. A window into the invisible wound of war: Functional neuroimaging of REM sleep in returning combat veterans with PTSD. *Psychiatry Research: Neuroimaging*. 2013. 211(2): 176-9.

**Herringa R**, Phillips M, Almeida J, Insana S, Germain A. Post-traumatic stress symptoms correlate with smaller subgenual cingulate, caudate, and insula volumes in unmedicated combat veterans. *Psychiatry Research: Neuroimaging*. 2012. 203(2-3): 139-45.

**Herringa RJ**, Roseboom PH, Kalin NH. Decreased amygdala CRF-BP mRNA in post-mortem tissue from male but not female bipolar and schizophrenic patients. *Neuropsychopharmacology*. 2006. 31(8):1822-31.

**Herringa RJ**, Mackenrodt DB, Barlow JD, Roseboom PH, Kalin NH. Corticotropin-releasing factor (CRF), but not corticosterone, increases basolateral amygdala CRF-binding protein. *Brain Research*. 2006. 1083(1):21-28.

**Herringa RJ**, Nanda SA, Hsu DT, Roseboom PH, Kalin NH. The effects of acute stress on the regulation of central and basolateral amygdala CRF-binding protein gene expression. *Brain Res Mol Brain Res*. 2004. Nov 24;131(1-2):17-25.

Lombardo KA, **Herringa RJ**, Balachandran JS, Hsu DT, Bakshi VP, Roseboom PH, Kalin NH. Effects of acute and repeated restraint stress on corticotropin-releasing hormone binding protein mRNA in rat amygdala and hippocampus. *Neuroscience Letters*. 2001. 302(2-3):81-84.

Hsu DT, Lombardo KA, **Herringa RJ**, Bakshi VP, Roseboom PH, Kalin NH. Corticotropin-releasing hormone messenger RNA distribution and stress-induced activation in the thalamus. *Neuroscience*. 2001. 105(4):911-21.

Book Chapters

**Herringa, RJ**. Childhood maltreatment and pediatric PTSD: Abnormalities in threat neural circuitry. Penn State Fourth Annual Conference on Child Protection and Well-Being. Springer Press. In press.

Jani S, **Herringa RJ**, Hursey D. Pharmacologic treatment of children with trauma and stressor-related disorders. In press.

Abstracts

Keding T, Motzkin J, **Herringa R**. Abnormal development of amygdala functional connectivity during emotion processing in pediatric post-traumatic stress disorder. Society of Biological Psychiatry 73rd Annual Scientific Convention and Program, 2018.

Heyn SA, Keding TJ, Mumford JA, **Herringa RJ**. Abnormal prefrontal structure and neurodevelopment in pediatric posttraumatic stress disorder. American College of Neuropsychopharmacology Annual Meeting, 2017.

Keding T, Motzkin J, **Herringa R**. Abnormal development of amygdala-dorsomedial prefrontal cortex functional connectivity in pediatric post-traumatic stress disorder. Society for Research in Child Development Biennial Meeting, 2017.

Olson C, Kohlenberg N, Tromp D, Keding T, **Herringa R**. White matter tract abnormalities in pediatric post-traumatic stress disorder: A diffusion tensor imaging study. Society for Research in Child Development Biennial Meeting, 2017.

Heyn SA, Olson CA, Keding TJ, **Herringa RJ**. Developmental grey matter changes in pediatric posttraumatic stress disorder: A longitudinal study. American College of Neuropsychopharmacology Annual Meeting, 2016.

**Herringa RJ**, Burghy CA, Stodola DE, Fox ME, Davidson RJ, Essex MJ. Enhanced fronto-subcortical connectivity following childhood adversity as a protective mechanism against internalizing in adolescence. American College of Neuropsychopharmacology Annual Meeting, 2015.

Kohlenberg NJ, Tromp DPM, Olson CA, Keding TJ, **Herringa RJ**. Examination of white matter tract abnormalities in pediatric PTSD. American Academy of Child & Adolescent Psychiatry Annual Meeting, 2015.

Keding TJ, **Herringa RJ**. Paradoxical recruitment of fear circuitry to emotional faces in pediatric post-traumatic stress disorder. Society of Biological Psychiatry 70th Annual Scientific Convention and Program, 2015.

Keding TJ, **Herringa RJ**. Abnormal structure of fear circuitry in pediatric post-traumatic stress disorder. American College of Neuropsychopharmacology Annual Meeting, 2014.

Patriat R, **Herringa RJ**. Default mode network connectivity in pediatric PTSD. Organization for Human Brain Mapping Annual Meeting, 2014. #3563.

Keding TJ, **Herringa RJ**. Functional neural correlates of emotion regulation in pediatric post-traumatic stress disorder. Society of Biological Psychiatry 69th Annual Scientific Convention and Program, 2014.

Wolf R, **Herringa RJ**. Altered prefrontal function following affective priming in pediatric post-traumatic stress disorder. Society of Biological Psychiatry 69th Annual Scientific Convention and Program, 2014.

Patriat R, **Herringa RJ**. Default mode network connectivity in pediatric PTSD. Society of Biological Psychiatry 69th Annual Scientific Convention and Program, 2014.

Keding TJ, **Herringa RJ**. Functional neural correlates of emotion regulation in pediatric post-traumatic stress disorder. Anxiety and Depression Association of America Annual Meeting, 2014.

Patriat R, Birn R, Phillips ML, Germain A, **Herringa RJ**. Childhood maltreatment contributes to altered resting state connectivity in young combat veterans. Organization for Human Brain Mapping Annual Meeting, 2013. #3155. Oral and poster presentation.

**Herringa RJ**. Functional neural correlates of emotion regulation in pediatric post-traumatic stress disorder. American Academy of Child & Adolescent Psychiatry Annual Meeting, 2013. #6.24.

**Herringa RJ**. Functional neural correlates of emotion regulation in pediatric post-traumatic stress disorder. Society of Biological Psychiatry 68th Annual Scientific Convention and Program, 2013. #241.

**Herringa RJ**, Phillips ML, Fournier JC, Kronhaus DM, Germain A. Neural correlates of childhood maltreatment, combat exposure, and posttraumatic stress disorder symptoms in young combat veterans. American Academy of Child & Adolescent Psychiatry Annual Meeting, 2012. #3.6.

**Herringa R**, Phillips M, Fournier J, Kronhaus D, Germain A. Functional neural correlates of PTSD symptoms and trauma exposure in young adult combat veterans. Society of Biological Psychiatry 67th Annual Scientific Convention and Program, 2012. Session 2, #055.

**Herringa RJ**, Germain A, Fournier JC, Kronhaus DM, Phillips ML. Childhood maltreatment severity correlates with impaired ventromedial prefrontal cortex activation in young adult combat veterans. American Academy of Child & Adolescent Psychiatry Annual Meeting, 2011. #6.2.

**Herringa R**, Almeida J, Insana S, Phillips M, Germain A. Post-traumatic stress symptoms are correlated with reduced subgenual cingulate, ventral striatum, and insula volumes in combat veterans. Western Psychiatric Institute and Clinic Annual Research Day, 2011. #98.

**Herringa R**, Almeida J, Insana S, Phillips M, Germain A. Post-traumatic stress symptoms are correlated with reduced subgenual cingulate, ventral striatum, and insula volumes in combat veterans. Society of Biological Psychiatry 66th Annual Scientific Convention and Program, 2011. 69:251S.

**Herringa RJ**, Ryan ND, Dahl RE, McCann T, Cameron JL. Sleep patterns in the rhesus monkey: links to physiological and psychological traits. Society for Neuroscience Annual Meeting, 2009. 276.19.

**Herringa RJ**, Roseboom PH, Kalin NH. Amygdala CRF-binding protein gene expression: a human post mortem brain study. American College of Neuropsychopharmacology Annual Meeting, 2004. 29 (Suppl 1):S203.

Roseboom PH, Bakshi VP, **Herringa RJ**, Kalin NH. Microarray analysis of one-hour restraint stress-induced changes in gene expression in the rat septum. Society for Neuroscience Annual Meeting. 2001. 26(2):2265.

Lombardo KA, Bakshi VP, Hsu DT, **Herringa RJ**, Roseboom PH, Newman SM, Hernandez PJ, Borisy-Rudin F, Kalin NH. Individual differences in novelty-induced exploration do not predict patterns of stress-induced CRH system gene expression in rats. Society for Neuroscience Annual Meeting. 2001. 26(2):2265.

Lombardo KA, **Herringa RJ**, Balachandran JS, Bakshi VP, Kalin NH. Repeated restraint stress prevents changes in corticotropin-releasing factor binding protein mRNA induced by acute restraint stress. Society for Neuroscience Annual Meeting. 2000. 26(2):2266.

**Herringa RJ**, Balachandran JS, Kalin NH. Acute restraint stress increases corticotropin-releasing factor-binding protein mRNA in rat amygdala and hippocampus. Society for Neuroscience Annual Meeting. 2000. 26(2):2265.

**Invited Research Presentations**

Local

Mass Shooting—What Can We Do? Invited panelist for [local forum](https://www.facebook.com/events/1565143566914800/) on reducing school and community violence. Madison, WI. Feb 2018.

Mental health, gun regulation, and school violence. Two interviews conducted for NBC15 News. Madison, WI. Feb 2018.

Trauma, PTSD, and neurodevelopment in youth. Department of Psychiatry Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. Nov 2017.

Trauma, PTSD, and neurodevelopment in youth. Trauma Informed Community of Care Summit. Madison, WI. Nov 2017.

Panelist for film screening of [Newtown](http://newtownfilm.com/), a documentary on the effects of trauma from the Sandy Hook Elementary shooting. Madison Public Library. Madison, WI. March 2017.

Effects of childhood adversity on prefrontal-amygdala development: Implications for resilience and vulnerability. The Rainbow Project. Madison, WI. May 2016.

Pediatric trauma and PTSD: Disrupting the brain’s fear circuit. Canopy Center. Madison, WI. Feb 2016.

Neurodevelopmental Abnormalities in Fear Circuitry in Pediatric PTSD. Madison Metropolitan School District psychologist in-service. Madison, WI. Nov 2015.

Pediatric PTSD: From Impact to Treatment. Community Care Resources. Madison, WI. Nov 2015.

The Youth PTSD Study: An update. Journey Mental Health Center. Madison, WI. Jan 2015.

Pediatric trauma and post-traumatic stress disorder: From behavior to brain and back. Trauma Informed Community of Care Summit. Madison, WI. Apr 2014.

Exploring neural mechanisms of pediatric trauma and post-traumatic stress disorder. Department of Psychiatry Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. Mar 2014.

Emotional trauma and children. Focus on Mental Health public lecture. Department of Psychiatry. University of Wisconsin School of Medicine. Madison, WI. Oct 2012.

Neural correlates of childhood maltreatment and post-traumatic stress symptoms in young adult combat veterans. Brain Food Series, University of Wisconsin. Madison, WI. Oct 2011.

Regional

Pediatric PTSD: From impact to treatment. Wisconsin Psychiatric Association 2014 Annual Meeting. Kohler, WI. Mar 2014.

The impact of childhood trauma on adults. Wisconsin Public Psychiatry Network Teleconference Series. Mar 2012.

National/International

Machine learning of neuroimaging markers to predict pediatric PTSD. Chair and speaker for symposium: Neurobiological mechanisms of resilience and vulnerability to childhood adversity. American Academy of Child & Adolescent Psychiatry Annual Meeting. Accepted presentation for Oct 2018.

Longitudinal frontolimbic development and symptom progression in pediatric PTSD. Invited speaker for symposium: Biological roots of child psychiatry and health: Neuroscience, transgenerational effects, and social factors. American Academy of Child & Adolescent Psychiatry Annual Meeting. Accepted presentation for Oct 2018.

Epigenetic abnormalities associated with altered frontolimbic circuitry in pediatric PTSD. Invited speaker for symposium: Biomarkers in children and adolescents with posttraumatic stress disorder. International Society for Traumatic Stress Studies Annual Meeting. Nov 2017.

Epigenetic abnormalities associated with altered emotion processing circuitry in pediatric PTSD. Chair and speaker for symposium: Childhood adversity and psychiatric disorders: Advances in neurobiological research. American Academy of Child & Adolescent Psychiatry Annual Meeting. Oct 2017.

Longitudinal neurodevelopmental trajectories in pediatric PTSD. Invited speaker for symposium: Effects of Childhood Maltreatment on Connectivity, Functional Networks and Brain Network Architecture in Susceptible, Resilient and Recovering Individuals. Society of Biological Psychiatry Annual Meeting. May 2017.

Developmental grey matter changes in pediatric posttraumatic stress disorder: A longitudinal study. Chair and mentor for graduate student speaker Sara Heyn for symposium: Childhood adversity and fear circuit development: Pathways to risk and resilience. Society for Research in Child Development Biennual Meeting. Apr 2017.

Genome-wide differential DNA methylation predicts fear circuit abnormalities in pediatric post-traumatic stress disorder. Presented by Taylor Keding, NTP graduate student mentee. Society for Neuroscience Annual Meeting. Nov 2016.

Effects of childhood adversity on prefrontal-amygdala development: Implications for resilience and vulnerability. Invited speaker for symposium: Fear Learning Across Adolescence: Insights from Neuroimaging and Implications for Treatment. American Psychological Association Annual Convention. Aug 2016.

Effects of childhood adversity on adolescent amygdala-prefrontal connectivity during emotion processing. Chair and speaker for the symposium: Effects of early life stress on amygdala-prefrontal circuitry: A cross-species examination. Society of Biological Psychiatry Annual Meeting. May 2016.

Effects of childhood adversity on prefrontal-amygdala development: Implications for resilience and vulnerability. Invited speaker for the NIMH Emotion and Development Branch. National Institute of Mental Health, Apr 2016.

Paradoxical Recruitment of Threat Circuitry in Pediatric Post-traumatic Stress Disorder. Invited speaker for symposium: The Development of Fear Learning and Threat Processing in Child Trauma and PTSD. International Society for Traumatic Stress Studies Annual Meeting, Nov 2015.

Prefrontal-Amygdala Connectivity in Youth: From Childhood Stress to Posttraumatic Stress Disorder. Invited speaker for symposium: Neuroimaging Studies of Moderators, Predictors, and Outcomes Associated with Early Life Stress and Maltreatment. American Academy of Child & Adolescent Psychiatry Annual Meeting, Oct 2015.

Neurodevelopmental Abnormalities in Fear Circuitry in Pediatric PTSD. Invited speaker for the symposium: The Fear System: Developmental and Translational Research. 2015 Developmental Affective Neuroscience Symposium. University of Pittsburgh. Oct 2015.

Pediatric trauma and PTSD: Disrupting the brain’s fear circuit. Invited speaker for the Penn State Fourth Annual Conference on Child Protection and Well-Being. Pennsylvania State University. Sept 2015.

Structural changes in fear circuitry in pediatric PTSD. Chair and speaker for the symposium: Neurobiology of pediatric PTSD: Translational evidence for disruptions in fear circuitry. American Academy of Child & Adolescent Psychiatry Annual Meeting, 2014.

Neural substrates of emotion regulation in pediatric post-traumatic stress disorder (PTSD). Developmental Affective Science Collective. University of Pittsburgh. Pittsburgh, PA. Nov 2012.

Functional brain changes in young adult combat veterans with PTSD: Impacts of childhood maltreatment and current sleep patterns. American Psychiatric Association Research Colloquium for Junior Investigators, 2010.

The regulation of amygdala corticotropin-releasing factor-binding protein (CRF-BP) in stress and psychopathology. NIMH Oustanding Resident Award Program, 2008.

**Patents**

Not applicable

**Educational Activities & Presentations**

Classroom Teaching

Child and adolescent psychiatry research day. Department of Psychiatry, University of Wisconsin School of Medicine & Public Health. Madison, WI. Spring 2018. Organized and facilitated the first annual research day for child psychiatry fellows, general residents, and psychiatry staff.

How do kids emote? Normative and atypical neurodevelopmental trajectories of emotion regulation. Neuroscience 900 seminar subgroup. University of Wisconsin. Madison, WI. Fall 2017. Neuroscience Training Program graduate students.

Trauma, PTSD, and neurodevelopment in youth. Psychology 501 Depth Topics lecture. University of Wisconsin. Madison, WI. Fall 2017. Undergraduate students.

NTP professional development seminar: Human subjects research. University of Wisconsin. Madison, WI. Fall 2017. Neuroscience Training Program graduate students.

Effects of childhood adversity on prefrontal-amygdala development: Implications for resilience and vulnerability. Neuroscience 500 Undergraduate Neurobiology Seminar. University of Wisconsin. Madison, WI. Apr 2016. Undergraduate students.

NTP professional development seminar: Human subjects research. University of Wisconsin. Madison, WI. Fall 2016. Neuroscience Training Program graduate students.

NTP Preliminary Exam Workshop. University of Wisconsin. Madison, WI. Fall 2016. Neuroscience Training Program graduate students.

Developmental fear regulation and implications for pediatric psychopathology. Neuroscience 900 seminar subgroup. University of Wisconsin. Madison, WI. Fall 2014. Neuroscience Training Program graduate students.

Neural substrates of pediatric post-traumatic stress disorder. Neuroscience 675: Functional Brain Imaging of Cognitive Disorders Seminar. University of Wisconsin. Madison, WI. Dec 2014. Graduate and undergraduate students.

Neural mechanisms of pediatric post-traumatic stress disorder. Neuronight Undergraduate Neuroscience Society seminar. University of Wisconsin. Madison, WI. May 2014. Undergraduate students.

Neural substrates of emotion regulation in pediatric post-traumatic stress disorder (PTSD). Neuroscience 500 Undergraduate Neurobiology Seminar. University of Wisconsin. Madison, WI. Apr 2013. Undergraduate students.

Neural substrates of emotion regulation in pediatric post-traumatic stress disorder (PTSD). Neuroscience 675: Functional Brain Imaging of Cognitive Disorders Seminar. University of Wisconsin. Madison, WI. Nov 2012. Graduate and undergraduate students.

Neural substrates of pediatric PTSD. Neuroscience Training Program Seminar. University of Wisconsin. Madison, WI. Sept 2012. Graduate students.

The physician-scientist journey: A case study. Medical scientist training program seminar. University of Wisconsin School of Medicine & Public Health. Madison, WI. Sept 2012. MSTP faculty, medical and graduate students.

Neural correlates of childhood maltreatment and post-traumatic stress symptoms in young adult combat veterans. Brain Food Series seminar, University of Wisconsin. Madison, WI. Oct 2011. Psychiatry and Psychology faculty, graduate students, undergraduates.

CME Presentations

Departmental

Trauma, PTSD, and neurodevelopment in youth. Department of Psychiatry Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. Aug 2017. Psychiatry faculty, staff, residents/fellows.

Exploring neural mechanisms of pediatric trauma and post-traumatic stress disorder. Department of Psychiatry Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. Mar 2014. Psychiatry faculty, staff, residents/fellows.

Neurodevelopmental impacts of trauma and posttraumatic stress disorder (PTSD). Department of Psychiatry Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. August 2010. Psychiatry faculty, staff, residents/fellows.

Emotional trauma and children. Focus on Mental Health public lecture. Department of Psychiatry. University of Wisconsin School of Medicine. Madison, WI. Oct 2012. Public.

UWSMPH/Hospital

Trauma, PTSD, and neurodevelopment in youth. Department of Pediatrics Grand Rounds. University of Wisconsin School of Medicine & Public Health. Madison, WI. Nov 2017. Medical school faculty, physicians, staff, residents/fellows.

Pediatric post-traumatic stress disorder. Department of Communication Sciences and Disorders Proseminar. University of Wisconsin School of Medicine & Public Health. Madison, WI. Sept 2013. Faculty, graduate students.

Restoring resilience: Pediatric trauma and PTSD. Mini Med School. University of Wisconsin School of Medicine & Public Health. Madison, WI. Jun 2013. Public.

State & Regional

Spanking your kids is harmful not helpful. Guest for the Joy Cardin Show, Wisconsin Public Radio. Madison, WI. May 2016. General state audience.

Pediatric trauma and post-traumatic stress disorder: From behavior to brain and back. Trauma Informed Community of Care Summit. Madison, WI. Apr 2014. Psychiatrists, therapists, school teachers and administrators, law enforcement, state administrators.

Pediatric PTSD: From impact to treatment. Wisconsin Psychiatric Association 2014 Annual Meeting. Kohler, WI. Mar 2014. Psychiatrists.

Pediatric post-traumatic stress disorder. Updates and Advances in Psychiatry 2013. Madison, WI. Oct 2013. Psychiatrists, therapists, residents/fellows.

Pediatric post-traumatic stress disorder. Seminars in Pediatrics. University of Wisconsin School of Medicine & Public Health. Madison, WI. Sept 2013. Pediatricians, physician assistants, nurses, residents/fellows.

Domestic violence: Impact on a child’s mind and brain. Domestic violence and child development conference. Mercy Hospital and Trauma Center. Janesville, WI. Oct 2012. Physicians, nurses, law enforcement.

When to worry about your student’s worries. Speak Up For Kids 2012 campaign. Orchard Ridge Nursery School. Madison, WI. Mar 2012. Teachers, school staff.

The impact of childhood trauma on adults. Wisconsin Public Psychiatry Network Teleconference Series. Madison, WI. Mar 2012. Psychiatrists, therapists, residents/fellows.

National/International

The physician-scientist journey: A case study. Western Psychiatric Institute and Clinic resident research track seminar. University of Pittsburgh. Pittsburgh, PA. Nov 2012. Psychiatry faculty, residents/fellows.

Career development in child maltreatment and violence. Clinical consultation breakfast (with Judith Cohen, MD). American Academy of Child & Adolescent Psychiatry Annual Meeting, Toronto, Canada. Oct 2011. Child psychiatrists, residents/fellows.

Clinical Teaching

Supervision for psychiatry resident clinic. University of Wisconsin Department of Psychiatry. 2011: 9/1, 10/25, 10/27, 12/27, 12/29. 2012: 3/6, 3/8, 4/3, 4/5, 5/10, 6/26, 6/28, 10/11, 11/1, 11/15. 2013: 3/5, 3/7, 5/21, 6/6, 8/13, 8/15, 8/20, 8/21, 8/22, 12/26. 2014: 1/2, 4/22, 5/22, 6/5, 6/23, 8/14, 8/21, 9/4, 9/11, 9/18, 9/25, 10/2, 10/9, 10/16. 2015: 2/19, 3/3, 3/5, 3/18, 3/25, 4/9, 4/30, 5/7, 6/4, 7/2, 7/9, 7/23, 8/27. 2016: 2/9, 2/11. June 2016-present: Standing supervisor every Tue/Thu for the child psychiatry resident clinic.

Child and parent trauma-focused cognitive-behavioral therapy. Child psychiatry fellow didactics. University of Wisconsin Department of Psychiatry. 5/6/13, 5/20/13, 3/24/14, 3/31/14, 4/7/14, 3/23/15, 4/6/15, 3/8/16, 3/28/16, 3/20/17, 3/27/17, 4/3/17. Fellows.

Pediatric post-traumatic stress disorder. Psychiatry resident PGY2 didactics. University of Wisconsin Department of Psychiatry. 3/9/12, 4/25/13, 3/19/14, 3/26/14, 1/22/15, 1/29/15, 6/15/17, 6/22/17, 1/18/18. Residents.

Child psychiatry fellow individual supervision. University of Wisconsin Department of Psychiatry. Weekly individual supervision of cases, practice, and career guidance. Apr-May 2012: Brooke Kwiecinski, MD. Jul-Oct 2012: Ritu Gandhi, MD. Nov 2012-Feb 2013: Alan Dimond, MD. Mar-May 2013: Carissa Bauer, MD. Jun-Jul 2013: Alan Dimond, MD. Aug-Oct 2013: Leah Schupp, MD. Mar-May 2014: Lisa Clement, MD. Aug-Oct 2014: Kierre Nelson, MD. Mar-Jun 2015: Cynthia Moran, MD. Jan-Mar 2017: Jonathan Vu, MD.

Child & adolescent psychiatry case conference. University of Wisconsin Department of Psychiatry. Interview modeling and case discussion. 1/27/12, 5/25/12, 1/25/13, 5/28/14, 8/17/16, 9/21/17. Residents/fellows.

Overview of trauma-focused CBT for the child psychiatry fellow family therapy clinic. University of Wisconsin Department of Psychiatry. 11/10/11, 12/22/11. Fellows.

Pediatric resident supervision. University of Wisconsin Department of Psychiatry, Pediatric psychiatry outpatient clinic. 2012: 2/6, 2/13, 2/20, 3/5, 3/12, 4/3, 4/5. 2013: 3/11, 3/12, 3/18, 8/5. 2014: 3/24. Residents.

Pediatric post-traumatic stress disorder. Clinical Child and Adolescent Psychology Seminar. University of Wisconsin Department of Psychiatry. Aug 2012. Psychology graduate students.

The career path of a physician-scientist. Psychiatry Scholars seminar. University of Wisconsin Department of Psychiatry. Apr 2012. Residents/fellows.

Mentoring

Postdoctoral Fellows

Christy Olson, PhD – Development of an observational fear learning paradigm. 9/14-5/17.

Graduate Students

Richard Wolf, PhD – co-mentored with Mike Koenigs, PhD. A Role for Ventromedial Prefrontal Cortex in Facial Emotion Recognition. Neuroscience Training Program, UW – Madison. Graduated 6/15. Currently program and director, Insight Data Science.

Remi Patriat, PhD – co-mentored with Rasmus Birn, PhD. Resting-State fMRI Study of Pediatric Post-Traumatic Stress Disorder: Preprocessing Optimization and Clinical Observations. Medical Physics, UW – Madison. Graduated 5/15. Currently a post-doctoral fellow at the University of Minnesota (Noam Harel).

Julian Motzkin, MD, PhD. Longitudinal neurodevelopment of resting amygdala functional connectivity in pediatric PTSD. UW – Madison MSTP, Medicine 902, 2/16-4/16

Sara Heyn, BS, JD – Neurodevelopmental trajectories following pediatric trauma and posttraumatic stress disorder. Neuroscience and Law Program, UW – Madison.

Taylor Keding, BS – Normative and stress atypical developmental trajectories of emotion regulation in youth. Neuroscience Training Program, UW – Madison.

Thesis Committees

Monika Dargis – Clinical Psychology, 2017-present

Jaryd Hiser – Clinical Psychology, 2017-present

Brett Schneider - Clinical Psychology, 2016-present

Julio Diaz - Neuroscience Training Program, 2016-present

Joshua Cruz - Neuroscience Training Program, 2015-present

Cecilia Westbrook – Psychology, Medical Scientist Training Program, 2014-2017.

Princess Ojiaku - Neuroscience Training Program, 2013-2015.

Graduate Student Rotations

Rachel Puralewski, BS - Neuroscience Training Program, 11/17-12/17

Marisa Ross, BS - Neuroscience Training Program, 11/16-12/16

Sara Heyn, BS - Neuroscience Training Program, 5/16-7/16

Joshua Cruz, BS - Neuroscience Training Program, 10/14-1/15

Andrew Merluzzi, BS - Neuroscience Training Program, 8/14-10/14

Cherline Lee, BS – Medical Scientist Training Program, 5/13-7/13

Annie Racine, BA – Neuroscience Training Program, 1/13-3/13

Medical Students

*Shapiro Summer Research Program, University of Wisconsin School of Medicine & Public Health*

Ryan Benoy, BS – Examination of emotional visual attention processing in pediatric PTSD. 5/17-7/17.

Nathaniel Kohlenberg, BA - Examination of white matter tract abnormalities in pediatric PTSD. 5/15-7/15. Mentor for successful receipt of the AACAP Summer Medical Student Fellowship Award.

Vy Dinh, BS - Cortical thickness in pediatric posttraumatic stress disorder. 5/14-8/14.

Meghan Fanta, BA - Structural brain differences in youth posttraumatic stress disorder. 5/12-7/12

Jenna Bowen, BS – Association of childhood maltreatment history and PTSD symptoms with structural and functional brain MRI in young combat veterans. 5/12-7/12

Undergraduate Students

Quinten Frederick – Research assistant for study protocol and data entry. 2017-present.

Kate Willeford – Research assistant for study protocol and data entry. 2017-present.

Ann Richey – Research assistant for study protocol and data entry. 2017-present.

Collin Schmit – Research assistant and Biology 152 project. 2016-present.

Caroline Risdon – Research assistant for study protocol and data entry. 12/16-present.

Sophie Bailowitz – Research assistant for study protocol and data entry. 12/16-present.

Kamden Gahr – Research assistant and Biology 152 project. 2016-2017.

Laurel Quinlan – Research assistant for study protocol and data entry. 2016-2017.

Shelby Weaver – Research assistance for study protocol and data entry. 2014-2015.

Amanda Timek – Research assistance for study protocol and data entry. 2015-2015.

Taylor Keding – Fronto-subcortical activation and connectivity in pediatric PTSD. 2012-2014.

Ariel Sherman – Research assistance for study protocol and data entry. 2012-2014.

Maggie Linden, Rural and Urban Scholars in Community Health (RUSCH), University of Wisconsin School of Medicine & Public Health (UW Milwaukee undergraduate) – A review of rating scales used to measure pediatric PTSD, 6/12-7/12.

Other

Faculty trainer – Neuroscience Training Program, Training Program in Emotion Research, Clinical Neuroengineering Training Program

**Service Activities**

Departmental

Child psychiatry division director search committee, 2014-2015.

Psychiatry residency applicant interviews. 2011: 9/16, 9/30, 10/7, 10/28, 11/4, 11/18, 12/9, 12/16. 2012: 1/13, 1/20. 2012: 11/2, 12/7. 2013: 8/2, 8/7, 9/11, 10/2. 2014: 10/17, 11/7.

Psychiatry residency applicant departmental research overview. 2014: 10/17, 10/31, 11/7, 11/14, 11/21, 12/5, 12/12, 12/19. 2015: 1/9, 10/16, 11/6, 11/13, 11/20, 12/11, 12/18. 2016: 1/8, 11/4, 11/11, 11/18, 11/22, 12/2, 12/16. 2017: 1/6, 1/13.

Neuroscience Training Program applicant interviews. 2/17/12, 1/24/14, 1/31/14, 1/23/15, 2/6/15, 1/22/16, 2/12/16, 1/27/17, 2/16/18.

UW/SMPH/Hospital

Neuroscience Training Program Steering Committee. 2016-present.

Medical Scientist Training Program Steering Committee. 2014-2016.

Medical Scientist Training Program Admissions Committee. 2012-2014.

Medical Scientist Training Program applicant interviews. 10/12/12, 1/10/14, 1/23/15, 2/19/16.

Community

Regional

National/International

Society of Biological Psychiatry Program Committee, Member 2017-present

Society of Biological Psychiatry Mentorship Committee, Member 2014-present, Chair 2016-2017.

American Academy of Child & Adolescent Psychiatry Program Committee, Member 2009-present

Ad hoc reviewer:

American Journal of Psychiatry

Biological Psychiatry

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging

BMC Psychiatry

Cerebral Cortex

Clinical Psychological Science

Development and Psychopathology

Developmental Cognitive Neuroscience

Developmental Psychology

Journal of Adolescent Health

Journal of Child Psychology and Psychiatry

Journal of Neuroscience Research

Journal of Psychiatric Research

Molecular Psychiatry

NeuroImage

Neuropsychopharmacology

Neuroscience and Biobehavioral Reviews

PLOS One

Psychiatry Research: Neuroimaging

Psychological Medicine

Psychoneuroendocrinology

**Other Activities**