

CURRICULUM VITAE

DATE: November 17, 2014

NAME: Jenifer Juranek, Ph.D.

PRESENT TITLE: Associate Professor

ADDRESS: Department of Pediatrics
Division of Developmental Pediatrics
The University of Texas Medical School at Houston
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Houston, Texas 77030
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CITIZENSHIP: United States

UNDERGRADUATE EDUCATION: B.S., Psychology Magna Cum Laude with Honors, 1991
Valparaiso University
Valparaiso, Indiana

GRADUATE EDUCATION: Ph.D., Program in Neuroscience, Department of Psychology, 1997
University of California, Riverside
Riverside, California

POSTGRADUATE TRAINING: Postdoctoral Researcher, 1998-1999
Neurophysiology
Department of Neuroscience
University of California, Riverside
Riverside, California

Research Associate/Project Scientist, 1999-2005
Neuroimaging
Department of Pediatrics
University of California Irvine Medical Center
Orange, California

Postdoctoral Scholar as T32 trainee, 2005-2006
Neuroimaging
Department of Anatomy and Neurobiology
University of California, Irvine
Irvine, California

ACADEMIC APPOINTMENTS:

University of Texas – Medical School at Houston:

Department of Neurosurgery:
2006 Assistant Professor

Department of Pediatrics, The Children’s Learning Institute:
2006 – 2013 Assistant Professor
2013 – current Associate Professor

PROFESSIONAL ORGANIZATIONS:

NATIONAL:

American Epilepsy Society, 2010
American Clinical Society for Magnetoencephalography, 2012

INTERNATIONAL:

International Neuropsychological Society, 2007
Society for Neuroscience, 1991
Organization for Human Brain Mapping, 2007

HONORS AND AWARDS:

1991 Magna cum laude, Valparaiso University, Indiana
1991 Graduate Opportunity Fellowship, University of California, Riverside
1996 Outstanding Teaching Assistant, University of California, Riverside

EDITORIAL POSITIONS:

Invited Reviewer:
2007 Annals of Dyslexia
2008 NeuroImage
2009 European Psychiatric Review
2010 The Cerebellum, NeuroImage
2011 The Cerebellum
2012 Neuropsychologia, European Journal of Pediatrics, Journal of Rehabilitative Medicine

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

Member, Faculty Senate, 2011-2014
Member, CLI faculty search committee for expertise in pediatric fMRI, 2012-2013
Member, Steering Committee for the Scholarly Concentration in Neuroscience
2012: Roxanne Simmons (MS1 Student)

SERVICE TO THE COMMUNITY:

2004: Invited member, Evaluation Review Committee, Children’s Hospital of Orange County/University of California Irvine Collaborative, Children and Families Commission of Orange County.

TEACHING EXPERIENCE:

1992-1997: University of California, Riverside, CA

1997

Spring Quarter	Laboratory	Cellular Neuroscience
Winter Quarter	Laboratory	Cellular Neuroscience

1996

Spring Quarter	Laboratory	Cellular Neuroscience
Winter Quarter	Laboratory	Cellular Neuroscience

1995

Fall Quarter	Discussions	Neural Networks and Behavior
Spring Quarter	Laboratory	Cellular Neuroscience
Winter Quarter	Discussions	Cellular Neuroscience

1994

Fall Quarter	Discussions	Brain and Behavior
Spring Quarter	Laboratory	Cellular Neuroscience
Winter Quarter	Discussions	Systems Neuroscience

1993

Fall Quarter	Discussions	Cellular Neuroscience
Spring Quarter	Laboratory	Cellular Neuroscience

1992

Fall Quarter	Discussions	Cellular Neuroscience
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SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

Training/Mentoring graduate students from the University of Houston clinical neuropsychology program:

FY2011: Amery Treble, Tori Williams, Vindia Fernandez

- 1 Thesis committee: Lyla El-Messidi (March 25, 2011)
- 2 Thesis committee: Vindia Fernandez (July 15, 2011)

FY2012: Emily Maxwell, Tori Williams

- 1 Thesis committee: Tori Williams (May 14, 2012)
- 2 Thesis committee: Emily Maxwell (June 26, 2012)
- 3 Dissertation Committee: Lyla El-Messidi (May 22, 2012)

FY2013: Amery Treble, Vindia Fernandez

- 1 Dissertation Committee: Amery Treble (October 18, 2012)
- 2 Dissertation Committee: Vindia Fernandez (June 12, 2013)

FY2014: Kailyn Bradley, Tori Williams, Lindsey Harik

- 1 Dissertation Committee: Kailyn Bradley (February 25, 2014)
- 2 Dissertation Committee: Tori Williams (March 5, 2014)

Training/Mentoring Graduate students from the University of Houston:

FY2008: Russ Jenkins, Alanna Gold, Lyla El-Messidi, Amery Treble
FY2009: Alanna Gold, Lyla El-Messidi, Amery Treble, Chad Johnson
FY2010: Amery Treble, Tori Williams, Vindia Fernandez.
FY2011: Amery Treble, Tori Williams, Vindia Fernandez, Emily Maxwell
FY2012: Kailyn Bradley as graduate research assistant (50% effort)
FY2012: Nikki Arrington as graduate research assistant (40% effort)
FY2013: Kailyn Bradley as graduate research assistant (50% effort)
FY2013: Aurora Ramos as graduate research assistant (50% effort)
FY2013: Nikki Arrington as graduate research assistant (40% effort)
FY2013: Ashley Ware as graduate research assistant (50% effort)
FY2014: Aurora Ramos as graduate research assistant (50% effort)
FY2014: Nikki Arrington as graduate research assistant (40% effort)

Training/Mentoring international students on scholarship:

FY2012: Tim Kunze from biomedical engineering at Ilmenau University in Germany. Title of Thesis: Probabilistic Connectivity Modeling to Maximize A Priori Information for MEG Source Localization.

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

2009: Nikki Davis, PhD Vanderbilt University
Freesurfer/FSL full-time training for 1 week in neuroimaging analyses
2009-2011: Penny Dong, MD
Full time image analysis for two NIH grant awards (Learning Disabilities and Spina Bifida)
2012-2014: Chad Johnson, PhD (Traumatic Brain Injury)
2012-2013: Maria Pilar Archila-Suerte, PhD (Learning Disabilities)
2013-2014: Anna Romanowska-Pawliczek, PhD (Autologous Bone Marrow)
2013-2014: Dana Demaster, PhD (Traumatic Brain Injury & Learning Disabilities)

CURRENT GRANT SUPPORT:

1 R01 NS077963-01A1 PI: Charles S. Cox, Jr.
04/01/2013 - 3/30/2018 Co-I: Jenifer Juranek
NIH/NINDS

Phase II trial of pediatric autologous bone marrow mononuclear cells (BMMNCs) for severe traumatic brain injury (TBI).

This project will determine the effect of intravenous infusion of autologous BMMNCs on brain structure and neurocognitive/functional outcomes after severe traumatic brain injury in young children.

Co-Investigator responsible for all MRI acquisitions and analyses

W81XWH-11-1-0460 PI: Charles S. Cox, Jr.
06/01/2011-11/30/2014 Co-I: Jenifer Juranek
USAMRRA

Treatment of Adult Severe TBI Injury Using Autologous Bone Marrow Mononuclear Cells.

This project plan will assess safety and functional outcomes following treatment of severe TBI in adults using autologous bone marrow mononuclear cells.

Co-Investigator responsible for all MRI acquisitions and analyses

BB-IND-12620, BB-IND-14214

Charles S. Cox, Jr. (PI)

9/1/2013 – 8/30/2015

Sponsors: TIRR Foundation, CBR, Inc., and Let's Cure CP Foundation

Autologous Cell Therapies for Cerebral Palsy

This clinical trial investigates autologous cell therapies in patients with cerebral palsy (CP). We aim to compare the effects of two specific autologous cell therapies - bone marrow derived mononuclear cells (BMMNCs) versus human umbilical cord blood cells (hUCBs).

Co-Investigator

2R01NS046308

PI: Linda Ewing-Cobbs

07/01/2011- 06/30/2016

Co-I: Jenifer Juranek

NIH/NINDS

Traumatic Stress After Pediatric Injury: Neurobiological Influences

This project will examine the impact of traumatic injury on the biomarkers of three stress-responsive neurobiological systems and their relation to cognitive and psychological health outcomes during the first year after TBI or extracranial injury.

Co-Investigator responsible for all MRI acquisitions and analyses

P50HD052117-07

PD: Jack M. Fletcher (University of Houston)

12/01/2011- 11/30/2016

PI of Project 4: Jenifer Juranek

NIH/NICHD

Learning Disabilities Research Center (LDRC).

The major goals of this project are to evaluate school-aged children and their response to reading intervention as part of a multidisciplinary center on learning disabilities involving a consortium of three Texas universities.

PI of LDRC Project 4: Neural Correlates of Reading Comprehension in Typical and Struggling Readers: A Multimodal Neuroimaging Study

Subcontract (NIH/NINDS)

PI: Jenifer Juranek

8/1/2011 – 7/30/16

A follow-up of children enrolled in the Management of Myelomeningocele Study (MOMS2).

The major goals of this project are to perform multimodal quantitative neuroimaging analyses on MRIs acquired at three study sites (e.g. UCSF, Children's Hospital of Philadelphia, and Vanderbilt University) where children with spina bifida either received prenatal surgery to correct the spinal defect before birth or received surgical treatment after birth. The total number of MRIs to be analyzed over the next five years is ~ 174.

PI responsible for MRI protocol development as well as all MRI acquisitions and analyses

PAST GRANT SUPPORT:

Subcontract

PD: Leanne Tamm (UT Southwestern)

(University of Texas Southwestern)

PI: Jenifer Juranek

1/1/11 – 12/31/2011

Attention Training Intervention Study in ADHD children

The major goal of this feasibility study is to evaluate pre- and post-changes in brain function following an intervention of attention training in children with ADHD.

Role: Co-investigator; PI of subcontract from UT Southwestern

P50 HD052117
06/01/2006 – 11/29/2011
NIH/NICHD

PD: Jack M. Fletcher (University of Houston)
PI of Project 4: Andrew C. Papanicolaou

Texas Center of Learning Disabilities

The major goals of this project are to establish a multidisciplinary center on learning disabilities involving a consortium of three Texas universities.

Role: Co-Investigator

P01 HD35946
01/01/08 – 11/29/11
NIH/NICHD

PD: Jack M. Fletcher (University of Houston)
PI of subcontract to UT: Jenifer Juranek

Spina Bifida: Cognitive and Neurobiological Variability

The major goals of this project are to provide genetic, neuroimaging, and neurobehavioral studies of children with spina bifida.

Role: Co-investigator; PI of subcontract from University of Houston (01/01/08 – 11/29/11)

3P50HD052117-0351
2/01/10 – 1/31/11
NIH/NICHD

PD: Jack M. Fletcher (University of Houston)
PI of subcontract to UT: Jenifer Juranek

ARRA - Texas Center of Learning Disabilities

The major goals of this project are to process neuroimaging data collected as part of the Texas Center for Learning Disabilities project.

Role: Co-Investigator; PI of subcontract from University of Houston (2/01/10 – 1/31/11)

R01-NS046308
05/01/2004 – 04/30/2010
NIH/NINDS

PI: Linda Ewing-Cobbs

Academic Outcomes After Pediatric Traumatic Brain Injury

Major Goals: Investigate the effect of traumatic brain injury in pediatric subjects on academic performance using neuropsychological measures, MRI-based morphometry and diffusion tensor imaging.

Role: Co-Investigator (1/01/08 – 4/30/10)

P01 HD46261
09/26/2003 – 07/31/2009
NIH/NINDS

PD: Jack M. Fletcher (University of Houston)
PI of subcontract to UT: Andrew C. Papanicolaou

Cognitive, Instructional, and Neuroimaging Factors in Math

The major goal of this project is to provide studies of cognitive processes, response to instruction, and neuroimaging studies (magnetic source imaging, DTI, aMRI) of children with math difficulties.

Role: Co-Investigator (9/01/06 – 1/01/08)

P01 N537941
12/01/2007 – 11/30/2009
NIH/NINDS

PD: Andrew C. Papanicolaou

Functional Brain Reorganization in Stroke Recovery

The major goal is to characterize changes in spatiotemporal representation of language function in the brain after aphasia secondary to stroke. Dr. Breier is PI on Project 1: Functional Brain Reorganization in Recovery from Aphasia.

Role: Co-investigator (9/01/06 – 1/01/08)

T32 NS45540
2005 – 2006
NIH/NINDS

PD: Tallie Z. Baram

Epilepsy Research Training Program

The major goal is to provide training opportunities for postdoctoral fellows in epilepsy research.

Role: Postdoctoral Scholar

R01 NS035458
1999 – 2005
NIH/NINDS

PI: Pauline A. Filipek

Autism: A model of anomalous neural systems development

The major goals of the project are to investigate neurological (quantitative MRI image analyses), genetic, and behavioral markers of autism in children.

Role: Co-Investigator responsible for quantitative neuroimaging analyses.

PAST INTRAMURAL SUPPORT:

- 10/22/2003 Co-Investigator of a Pilot study intramurally funded by UCI's GCRC entitled, "*The Effects of Antenatal Betamethasone on Brain Development*".
PI: Elysia Poggi-Davis, PhD
- 03/15/2005 Principal Investigator of a Pilot Study intramurally funded by UCI's GCRC entitled, "*Brain MRI & MRS Findings in ADHD Children*".
- 11/01/2005 Principal Investigator of Pilot study intramurally funded by UCI's GCRC entitled "*Effects of Seizures on White Matter Tracts and Behavior*".
- 07/01/2006 Lead Investigator of extramurally-funded research proposal sponsored by the Epilepsy Foundation, Special Research Grants Program, Targeted Research Initiative for Mood Disorders. Project entitled: "*Predictors of differential vulnerability to anxiety and depression in epilepsy: A diffusion tensor imaging study.*"
- 03/01/2008 Principal Investigator of intramurally-funded research proposal sponsored by the Department of Pediatrics, University of Texas, Houston. Project entitled: "*Attention and Executive Systems in TBI children: A Multimodal and Quantitative Neuroimaging Study.*"
- 03/01/2009 Co-Investigator of intramurally-funded research proposal sponsored by the Department of Pediatrics, University of Texas, Houston. Project entitled: "*Pre- and post-surgical changes in brain structure and function in patients with intractable epilepsy*". PI: Gretchen Von Allmen, MD

EXTRAMURAL GRANT SUBMISSIONS: (funded applications)

3P50HD052117-0351
02/01/10 – 01/31/11
NIH/NICHD

PI: Jack M. Fletcher

ARRA - Texas Center of Learning Disabilities

The major goals of this project are to conduct quantitative analyses of multimodal neuroimaging data collected from children with and without reading difficulties.

Role: Co-Investigator responsible for MRI analyses

2R01NS046308

PI: Linda Ewing-Cobbs

08/01/2012 – 07/31/2013

NINDS, National Institutes of Health

Traumatic Stress After Pediatric Injury: Neurobiological Influences

This project will examine the impact of traumatic injury on the biomarkers of three stress-responsive neurobiological systems and their relation to cognitive and psychological health outcomes during the first year after TBI or extracranial injury.

Role: Co-investigator responsible for MRI acquisition and analyses

W81XWH-11-1-0460

PI: Charles S. Cox, Jr.

06/01/2011 – 05/31/2014

USAMRRA

Treatment of Adult Severe TBI Injury Using Autologous Bone Marrow Mononuclear Cells.

This project plan will assess safety and functional outcomes following treatment of severe TBI in adults using autologous bone marrow mononuclear cells.

Role: Co-investigator responsible for MRI acquisition and analyses

BB-IND-12620, BB-IND-14214

PI: Charles S. Cox, Jr.

9/1/2013 – 8/30/2015

Sponsors: TIRR Foundation, CBR, Inc., and Let's Cure CP Foundation

Autologous Cell Therapies for Cerebral Palsy

This clinical trial investigates autologous cell therapies in patients with cerebral palsy (CP). We aim to compare the effects of two specific autologous cell therapies - bone marrow derived mononuclear cells (BMMNCs) versus human umbilical cord blood cells (hUCBs). Research site: UT Houston.

Role: Co-Investigator

2P50HD052117-06

PI: Jenifer Juranek

12/01/11 – 11/30/2016

NICHD, NIH

Texas Center for Learning Disabilities Project 4: Neural Correlates of Reading Comprehension in Typical and Struggling Readers: A Multimodal Neuroimaging Study.

The major goals of this project are to develop and evaluate classifications of learning disabilities, conduct empirical syntheses, evaluate the role of executive functions in reading comprehension, to provide reading comprehension interventions for students in grades 4-5, and conduct neuroimaging studies of students in various phases of intervention.

Role: Principal Investigator responsible for MRI acquisition and analyses

5U01-HD068541

PI: Jenifer Juranek (*subcontract*)

07/01/2012 – 06/30/2017

NICHD/NIH

MOMS2 Quantitative neuroimaging analyses

The major goals of this project are to acquire and quantitatively analyze MRI datasets collected as part of the MOMS2 follow-up study of children with spina bifida.

Role: Principal Investigator of Neuroimaging subcontract

1R01NS077963-01A1
01/01/2013-03/31/2018
NIH/NINDS

PI: Charles S. Cox

Phase 2 Pediatric Autologous BMMNC for Severe TBI

This project will be to determine the effect of intravenous infusion of autologous BMMNCs on brain structure and functional outcomes after severe traumatic brain injury in children. This study is designed as a prospective, randomized, placebo-controlled, blinded Phase 2 safety/biological activity study.

Role: Co-investigator responsible for MRI acquisition and analyses

EXTRAMURAL GRANT SUBMISSIONS: (funded * and unfunded applications)

2009 Epilepsy Foundation: DTI correlates of anxiety & depression in pediatric epilepsy (PI: Juranek, J)

2009 1R01-NS-046308: Traumatic stress after pediatric injury: Neurobiological Influences

(PI: Ewing-Cobbs, L; Co-I: J Juranek)

2009 R01: Context and comprehension after right hemisphere brain damage

(PI: Blake, ML at UH; UTH site PI: Juranek, J)

2009 PPG renewal: Spina Bifida: Cognitive and neurobiological variability

(PD: Fletcher, JM at UH; Co-I Project 4: Juranek, J)

2010 1R01-HD-068422: Attention and movement in spina bifida and ADHD

(PD: Fletcher, JM at UH; UTH site PI: Juranek, J)

2010 1R01-NS-073658-01A1: Vulnerability of frontal lobe networks after brain injury in young children. (PI: Ewing-Cobbs, L; Co-I Juranek, J)

2010 NIH/NINDS: Stroke

(PI: Breier, J; Co-I Juranek, J)

2010 1R01-MH-094374-01: Neurophysiological markers of autism

(PI: Papanicolaou, AC; Co-I Juranek, J)

2010 1R01-HD-068468-01: Structural and functional correlates of motor skill learning in spina bifida (PI: Juranek, J)

***2010** 3P50-HD-052117-03S1: ARRA supplemental funding for LDRC

(PD: Fletcher, JM at UH; UTH site PI: Juranek, J)

***2010** 2R01-NS-046308: Traumatic stress after pediatric injury: Neurobiological Influences (PI: Ewing-Cobbs, L; Co-I Juranek, J)

***2010** DOD-W81XWH-11-1-0460: Treatment of adult severe TBI injury using autologous bone marrow mononuclear cells (PI: Cox, Charles, S; Co-I Juranek, J)

2011 1R01-HD-068468-01A1: Structural and functional correlates of motor skill learning in spina bifida (PI: Juranek, J)

2011 1R01-HD-068422-01: Attention and movement in spina bifida and ADHD

(PI: Fletcher, JM at UH; UTH site PI: Juranek, J)

***2011** 1R01-NS-: Phase 2 pediatric autologous BMMNC for severe traumatic brain injury

(PI: Cox, Charles S.; Co-I: Juranek, J)

***2011** 2 P50-HD-052116-06: Texas Center for Learning Disabilities

(PD: Fletcher, JM at UH; PI of Project 4: Juranek, J)

2011 1R01-HD-046609B: Early and late predictors of risk and resiliency in adolescents with spina bifida (PI: Landry, S; Co-I Juranek, J)

2011 1R01-NS-079298-01: Imaging gray matter microstructure in vivo predicts histopathology in epilepsy (Co-PIs: Juranek, J and Von Allmen, G)

***2011 Subcontract**: A Follow-up study of children enrolled in the management of Myelomeningocele Study (MOMS2) (PI of Neuroimaging: Juranek, J)

***2013 BB-IND-12620, BB-IND-14214**

Sponsors: TIRR Foundation, CBR, Inc., and Let's Cure CP Foundation

Autologous Cell Therapies for Cerebral Palsy. This clinical trial investigates autologous cell therapies in patients with cerebral palsy (CP) (PI: Cox, Charles, S; Co-I Juranek, J).

2014 Concussive Trauma Encephalopathy (CTE) in professional football players (PI: Schultz, Paul; Co-I: Juranek, J.)

2014 Adult TBI Phase 2b: Treatment of adult severe TBI injury using autologous bone marrow mononuclear cells (PI: Cox, Charles, S; Co-I Juranek, J)

PUBLICATONS:

A. Abstracts (* presented)

1. Metzner, W.* , Juranek, J. Behavioral significance of multiple sensory maps in the electrosensory lateral line lobe (ELL) of the weakly electric fish, *Eigenmannia*. Society for Neuroscience 1996; 179.3
2. Juranek, J.* , Metzner, W. Cellular effects of different premotor circuitry on the pacemaker nucleus in two species of weakly electric fish. Society for Neuroscience 1996; 179.5
3. Metzner, W.* , Juranek, J. Visualization of pharmacological lesions made with biotinylated ibotenic acid. Society for Neuroscience 1997; 883.4
4. Juranek, J.* , Metzner, W. Changes in apparent input resistance in pacemaker cell types with different synaptic inputs, *in vivo*. Society for Neuroscience 1997; 101.14
5. Juranek, J.* , Currie, S.N. Fictive swimming elicited by electrical stimulation of the turtle spinal cord: Interactions with scratch reflex. Society for Neuroscience 1998; 654.22
6. Filipek, P.A.* , Juranek, J., Gargus, J.J, Smith, M., Ramos, E.R., Mays, L.Z., Bocian, M., Laulhere, T.M., Modahl, C., and Spence, M.A. Evidence of mitochondrial dysfunction in autistic patients with 15q inverted duplication. International Meeting for Autism Research 2001; 7.02
7. Filipek, P.A.* , Juranek, J., Nguyen, M., Cummings, C., and Gargus, J.J. Relative Carnitine Deficiency in Autism. *Annals of Neurology* 52(3S):S125-126; Child Neurologist Society, 2002.

8. Juranek, J.*, Filipek, P.A., Taylor, H.G., Bangert, B., Minich, N., and Hack, M. Anomalous Brain Development in Adolescent Survivors of Very Low Birthweight: A Structural Imaging Study. Child Neurologist Society, 2005.
9. Lin, J. *, Juranek, J., Franklin, D.L., Drescher, A., Maguire, G.A., and Cramer, S.C. Vulnerability of Frontal-Temporal Connections in Early Onset Focal Epilepsy. American Epilepsy Society, 2006.
10. Cramer, S.C. *, Parrish, T.B., Levy, R.M., Stebbins, G.T., Ruland, S.D., Lowry, D.W., Trouard, T.P., Squire, S.W., Weinand, M.E., Savage, C.R., Wilkinson, S.B., Juranek, J., Leu, S.Y., and Himes, D.M. An Assessment of Brain Function Predicts Functional Gains in a Clinical Stroke Trial. International Stroke Conference, 2007.
11. Hasan, K.M.*, Fletcher, J.M., Ewing-Cobbs, L., Sankar, A., Eluvathingal, T.J., Kramer, L.A., Ashtari, A., Juranek, J., Sarkari, S. and Papanicolaou, A.C. A Multi-Scale Whole-Brain Optimized Diffusion Tensor Imaging of Dyslexics at 3.0T. ISMRM, 2007.
12. Juranek, J.*, Castillo, E.M., Pazo-Alvarez, P., Ewing-Cobbs, L., Sarkari, S. and Papanicolaou, A.C. Anatomical and Functional Differences in Children with Spina Bifida: aMRI and MEG studies. International Neuropsychological Society, Bilbao, Spain, 2007.
13. Riley, J. *, Juranek, J., Drescher, A., Lin, J.J., and Cramer, S.C. Derangement of uncinate fasciculus myelin integrity as a function of age of seizure onset, as revealed by DTI tractography. Human Brain Mapping, Chicago, IL, 2007.
14. Kamali, A. *, Juranek, J., Hasan, K.M. Mapping the human brain fiber pathways using diffusion tensor imaging at high angular and spatial resolution. National Research Center at University of Texas Houston. University of Texas Houston, Medical School Building; 14th Annual Poster Session, 2007.
15. Hasan, K.M. *, Kamali, A., and Juranek, J. Mapping the Human Brain Fiber Tracts Relative to Deep and Cortical Gray Matter Using Diffusion Tensor Imaging at High Angular and Spatial Resolution. The 25th Annual Meeting of the Houston Society for Engineering in Medicine and Biology (HSEMB 08 Conference), Houston, TX, 2008.
16. Simos, P.G., Fletcher, J.M., Sarkari, S., Juranek, J., and Papanicolaou, A.C.* Aberrant spatiotemporal activation profiles associated with simple arithmetic operations in developmental math disability. The 36th Annual International Neuropsychological Society Meeting. Waikoloa, HI, 2008.

17. Dennis, M.* , Hopyan-Misakyan, T., Juranek, J., Cirino, P., Hasan, K., Fletcher, J. Strong and weak metric rhythm identification in spina bifida meningomyelocele in relation to parcellated anterior and posterior cerebellar volumes. Neuroscience & Music III: Disorders & Plasticity. Montreal, Canada, 2008.
18. Juranek, J.* , Prasad, M., Kramer, L., Ewing-Cobbs, L. Association between amygdala volume and self-reported measures of anxiety in children with TBI. The 37th Annual International Neuropsychological Society Meeting. Atlanta, GA, 2009.
19. Isenberg, A. L.* , Juranek, J., Filipek, P.A., Osann, K., Spence, M.A., Gage, N.M. An anatomical MRI investigation of asymmetries in frontal and temporal language association cortex in children with autism disorder. The 8th Annual International Meeting for Autism Research. Chicago, IL, 2009.
20. Juranek, J.* Increased cortical complexity in cortically-thin regions: an aMRI study in spina bifida. The 1st World Congress on Spina Bifida Research and Care. Orlando, FL, 2009.
21. Davis, N.* , Barquero, L., Juranek, J., Fan, Q., Zhang, W., Compton, D., Anderson, A. Is there a relationship between children's brain structure and their responsiveness to intervention? The 16th Annual Meeting of the Society of Scientific Study of Reading, Boston, Massachusetts, 2009.
22. Johnson, C. P.* , Juranek J., Kramer, L.A., Prasad, M.R., Swank, P.R., Blakeley, A., Kaplan, A.* , Ewing-Cobbs, L. Predicting attentional deficits following Traumatic Brain Injury through dissociated white matter pathways of attention: A diffusion tensor tractography study. The 38th Annual International Neuropsychological Society Meeting. Acapulco, Mexico, 2010.
23. Johnson, C.P.* , Juranek, J., Kramer, L.A., Prasad, M.R., Swank, P.R., Ewing-Cobbs, L. Predicting behavioral deficits following traumatic brain injury through damage to the uncinate fasciculus: A diffusion tractography study. The 38th Annual International Neuropsychological Society Meeting. Acapulco, Mexico, 2010.
24. Gold, A.* , Juranek, J., Prasad, M.R., Ewing-Cobbs, L. Attention networks in children with traumatic brain injury (TBI): Relations with regional brain volumetry. The 38th Annual International Neuropsychological Society Meeting. Acapulco, Mexico, 2010.
25. Blakely, A.* , Johnson, C.P., Juranek, J., Ewing-Cobbs, L., Kaplan, A., Prasad, M.R. Mean diffusivity of the orbitofrontal cortex is associated with inhibitory control in children with TBI. The 38th Annual International Neuropsychological Society Meeting. Acapulco, Mexico, 2010.

26. Treble, A.* , Juranek, J., Fletcher, J.M. Regions of increased and decreased cortical complexity in spina bifida: An aMRI study. The 38th Annual International Neuropsychological Society Meeting. Acapulco, Mexico, 2010.
27. Juranek, J.* , Treble, A., Law, N. Imaging the spina bifida brain for cross-disorder comparisons: Spatial patterns of cortical thickness and thinning, volumetrics of subcortical gray matter, and cerebellar parcellations. International Neuropsychological Society Annual Meeting, Boston, MA, 2011.
28. Bush, A.A.* , Juranek, J., Tamm, L. Deficits in fluid reasoning associated with hypoactivation in ADHD: fMRI evidence. 22nd Eunethydis Meeting in Budapest, Hungary, 2011.
29. Juranek, J.* , Williams, V., Cirino, P.T., Dennis, M., Fletcher, J.M. aMRI and DTI of deep gray matter structures in children with and without spina bifida meningocele. Annual Human Brain Mapping Meeting, Quebec City, Canada, 2011.
30. Juranek, J*. Neuroimaging in Spina Bifida: Findings from the SANDI Project. The Second International World Congress on Spina Bifida Research and Care, Las Vegas, NV, 2012.
31. Lankford, J.* , Juranek, J., Bhattacharjee, M., Von Allmen, G. White matter pathways in epileptic patients. First Annual Fellowship Research Symposium, Department of Pediatrics, UT-Health, Houston, TX, May 9-10, 2012.

B. Refereed Original Articles in Journals

1. Metzner, W., Juranek, J. A sensory brain map for each behavior? Proceedings of the National Academy of Sciences, USA 94:14798-14803, 1997.
2. Metzner, W., Juranek, J. A method to biotinylate and histochemically visualize ibotenic acid for pharmacological inactivation studies. Journal of Neuroscience Methods 76:143-50, 1997.
3. Juranek, J., Metzner, W. Cellular characterization of synaptic modulations of a neuronal oscillator in electric fish. Journal of Comparative Physiology A 181:393-414, 1997.
4. Juranek, J., Metzner, W. Segregation of behavior-specific synaptic inputs to a vertebrate neuronal oscillator. Journal of Neuroscience 18(21):9010-9019, 1998.
5. Juranek, J, Currie, S.N. Electrically evoked fictive swimming in the low-spinal immobilized turtle. Journal of Neurophysiology 83:146-155, 2000.

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34. Fernandez, V., Juranek, J., Stuebing, K., Fletcher, J.M., Volumetric analysis of regional variability in the cerebellum of children with dyslexia. *The Cerebellum* 12: 906-915, 2013.
35. Williams, V.J., Juranek, J., Stuebing, K., Cirino, P.T., Dennis, M., Fletcher, J.M. Examination of Frontal and Parietal tectocortical attention pathways in spina bifida meningomyelocele using probabilistic diffusion tractography. *Brain Connectivity* 3(5):512-522, 2013.
36. Dennis, M., Spiegler, B.J., Juranek, J., Bigler, E.D., Snead, C.O., Fletcher, J.M. Age, plasticity, and homeostasis in childhood brain disorders. *Neuroscience and Biobehavioral Reviews* 37: 2760-2773, 2013.
37. Ware, A. L., Juranek, J., Williams, V.J., Cirino, P.T., Dennis, M, Fletcher, J.M. Anatomical and diffusion MRI of deep gray matter in pediatric spina bifida. *NeuroImage Clinical*: 5:120-127, 2014.

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40. Dennis, M., Cirino, P.T., Simic, N., Juranek, J., Taylor, P., Fletcher, J.M. White and grey matter relations to simple choice and cognitive reaction time in spina bifida (in press, 2014).
41. Bradley, K.A., Juranek, J., Romanowska-Pawliczek, A., Hannay, H.J., Cirino, P.T., Dennis, M., Fletcher, J.M. Plasticity of interhemispheric temporal lobe connections due to early disruption in CC development in spina bifida myelomeningocele.(in preparation, 2014).
42. Romanowska-Pawliczek, A., Cirino, P.T., Williams, V.J., Fletcher, J.M., Juranek, J. Classification targets in struggling readers: structural connectivity within the reading network associated with measures of reading performance (in preparation, 2014).
43. DeMaster, D., Juranek, J., Ewing-Cobbs, L. A Longitudinal Investigation of Memory and the Hippocampal Formation Following Pediatric Traumatic Brain Injury (in preparation, 2014).
44. DeMaster, D., Johnson, C., Juranek, J., Ewing-Cobbs, L. Emotion Processing Following Pediatric Traumatic Brain Injury (in preparation, 2014).

C. Chapters

1. Juranek, J., Filipek, P.A. Neuroimaging in the Developmental Disorders. In Boller F, Grafman, J. (Eds). *Handbook of Neuropsychology Second Edition*. Rapin, I., Segalowitz, S. (Topic Eds). Volume 8, Part 1: Child Neuropsychology, Part 1, Chapter 7. Elsevier Science Publishers. Amsterdam, 2002. 175-194.

D. Other Professional Communications

National Presentations:

1. Juranek, J. Pediatric Neuroimaging in ADHD Preschoolers. Invited speaker at Dopamine Network Meeting. New York, NY, 2003.

2. Juranek, J. Pediatric Neuroimaging. Invited participant to Trans-NIH Workshop. Bethesda, MD, 2004.
3. Juranek, J. Project 4: Brain Activation Profiles of Math Difficulties in Children: A Magnetic Source Imaging Study. Invited speaker at Fourth Annual PI Meeting: Mathematical Cognition and Specific Learning Disabilities Research Consortium. Bethesda, MD, 2007.
4. Juranek, J. Brain activation profiles of reading difficulties in children: A magnetic source imaging study. Invited speaker at First Annual PI Meeting: Learning Disabilities Research Center Consortium. Florida State University, FL, 2007.

International Presentations:

1. Juranek, J. Advances in Pediatric Neuroimaging. Invited speaker (Research Symposium) at 15th Annual CHADD International Conference. Denver, CO, 2003.
2. Juranek, J. Anatomical and functional differences in children with spina bifida: aMRI and MEG studies. Symposium speaker at International Neuropsychological Society Annual Meeting. Bilbao, Spain, 2007.
3. Juranek, J. Increased cortical complexity in cortically-thin regions: an aMRI study in spina bifida. The 1st World Congress on Spina Bifida Research and Care. Orlando, FL, 2009.
4. Juranek, J., Treble, A., Law, N. Imaging the spina bifida brain for cross-disorder comparisons: Spatial patterns of cortical thickness and thinning, volumetrics of subcortical gray matter, and cerebellar parcellations. International Neuropsychological Society Annual Meeting, Boston, MA, 2011.
5. Juranek, J. Neuroimaging in Spina Bifida: Findings from the SANDI Project. The Second International World Congress on Spina Bifida Research and Care, Las Vegas, NV, 2012.

Local Presentations:

1. Juranek, J. Predictors of Differential Vulnerability to Anxiety and Depression in Epilepsy: A Diffusion Tensor Imaging Study. Invited speaker at UCI's Annual EpiCenter Symposium. Irvine, CA, 2006.
2. Juranek, J., Frye, R. Freesurfer: Automated cortical reconstruction and analysis. Invited lecture to teach background and methods for semi-automated morphometric analyses of brain MR images. Houston, TX, 2007.
3. Juranek, J., Fletcher, J.M. Invited speaker to briefly discuss with prospective graduate students current, cutting-edge approaches in multimodal and quantitative neuroimaging. Houston, TX, 2008.

4. Juranek, J. Invited speaker to present multi-modal neuroimaging methods as complementary information for integration with neuropsychological assessment data. Houston, TX, 2009.
5. Juranek, J. Surface-based analyses of aMRI in Spina bifida children. Children's Learning Institute Collaborative, The University of Texas Health Science Center at Houston, TX, 2009.
6. Juranek, J. Quantitative volumetric imaging in neurodevelopmental disorders. Brain, Behavior, & Imaging group Continuing Medical Education/Clinical Education series at Texas Children's Hospital, March 1, 2011. Invited by Dr. Eyal Muscal.
7. Juranek, J. Quantitative volumetric imaging in neurodevelopmental disorders. Pediatric Grand Rounds CME/CE series at UT-H, November 29, 2011. Invited by Dr. Ian Butler.
8. Juranek, J. Quantitative neuroimaging in spina bifida. Lonestar LEND program at UT-H, May 22, 2012. Invited by Dr. Pauline Filipek.