

CURRICULUM VITAE

DATE: January 30, 2020

NAME: Jenifer Juranek, Ph.D.

PRESENT TITLE: Associate Professor

ADDRESS: Department of Pediatric Surgery
McGovern Medical School at UTHHealth
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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

EDUCATION: University of California, 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 – McGovern Medical School at UTHealth:

Department of Neurosurgery
2006 Assistant Professor

Department of Pediatrics
2006 – 2013 Assistant Professor
2013 – 2018 Associate Professor

Department of Pediatric Surgery
2019 - current Associate Professor

PROFESSIONAL ORGANIZATIONS:

NATIONAL:

Society for Imaging Informatics in Medicine, 2016
Society for Neuroscience, 1991
Organization for Human Brain Mapping, 2007

INTERNATIONAL:

International Neuropsychological Society, 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 ad hoc 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, 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.

2013: Juranek, J. Neurodevelopmental Neuroimaging Research in the BRAIN Lab, CLI Tasting Dinner February, 2013. Fundraising event resulted in \$200,000 donor gift from the Petrello Family to J Juranek's research program.

2015: Juranek, J. Neurodevelopmental Neuroimaging Research in the BRAIN Lab, CLI Tasting Dinner February 18, 2015.

2016: Juranek, J. Interview with Leyah Mathew, a student at The Village School in Houston, TX for 8th grade career project, March 28, 2016.

2016: Juranek, J. Neuroimaging in struggling readers. Greater Houston Community Foundation at Cooley Center, September 10, 2016.

2017: Juranek, J. Research article review for the Texas Center for Learning Disabilities. <https://www.texasldcenter.org/education-research-matters/item/january-2017>

2017: Juranek, J. Neuroimaging in struggling readers. Fall Lunch and Learn presentation to 200 teachers and administrators in the Greater Houston area, November 29, 2017. <https://content.jwplatform.com/previews/C2t2ax9T-OZwX2Uq2>

2018: Juranek, J. Research article review for the Texas Center for Learning Disabilities <https://www.texasldcenter.org/education-research-matters/item/april-2018>

TEACHING EXPERIENCE:

1992-1997: University of California, Riverside, CA

- 1) For laboratory sections, my responsibilities included preparation of laboratory equipment and exercises, assistance of students with weekly 4 hour experiments, and grading of student lab reports.
- 2) For discussion sections, my responsibilities included preparation of weekly reviews of lecture material, preparation of weekly quizzes, and grading of exams.

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

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

FY2012: Lyla El-Messidi

1. Dissertation Defense Committee: Lyla El-Messidi (May 22, 2012)
"The relation of anomalous Heschl's gyrus and cognitive performance in spina bifida"

**Pediatric Neuropsychologist at Children's Hospital of Philadelphia*

FY2013: Amery Treble,

1. Dissertation Defense Committee: Amery Treble (November 30, 2012)
“Prospective and episodic memory in relation to hippocampal volume in adults with spina bifida”
**UPMC Allied Health Medical Staff, Department of Physical Medicine and Rehabilitation, Children’s Hospital of Pittsburgh of UPMC*

FY2014: Kailyn Bradley, Vindia Fernandez

1. Dissertation Defense Committee: Kailyn Bradley (August 15, 2014)
“Corpus callosum microstructure and auditory interhemispheric transfer in spina bifida myelomeningocele”
**Postdoctoral Research Fellow at Icahn School of Medicine at Mount Sinai*
2. Dissertation Defense Committee: Vindia Fernandez (August 11, 2014)
“Cortico-cerebellar connectivity in reading impaired children: A probabilistic tractography study”
**Postdoctoral Research Fellow at UCLA*

FY2015: Tori Williams, Nikki Arrington, Lindsey Harrick

1. Dissertation Defense Committee Tori Williams (April 15, 2015)
“Cortical thickness and gyrification in children with developmental dyslexia”
**Postdoctoral Research Fellow at Harvard Medical School*
2. Dissertation Defense Committee: Nikki Arrington (May 15, 2015)
“White matter microstructure in relation to reading proficiency and behavioral inattention”
**Postdoctoral Research Fellow at Georgia State University*
3. Dissertation Defense Committee: Lindsey Harrick (July 24, 2015)
“The impact of pediatric traumatic brain injury on written expression: A diffusion tensor imaging study utilizing tract-based spatial statistics”

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.

**PhD student at Max Planck Institute for human Cognitive and brain Science, Leipzig, Germany*

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

2009: Nikki Davis, PhD Vanderbilt University

2009-2011: Penny Dong, MD (Learning Disabilities and Spina Bifida)

2012-2014: Chad Johnson, PhD (Traumatic Brain Injury)

2012-2013: Maria Pilar Archila-Suerte, PhD (Learning Disabilities)

2013-2015: Anna Romanowska-Pawliczek, PhD (Autologous Bone Marrow)

2013-2015: Dana Demaster, PhD (Traumatic Brain Injury & Learning Disabilities)

MENTORING JUNIOR FACULTY:

2015-present: Manish Shah, MD K08HD088647 submission: *Cortical Plasticity in Spastic Diplegic Children after Selective Dorsal Rhizotomy.*

CURRENT DONOR SUPPORT:

2014-2019: The Petrello Family donation to J Juranek **\$200,000 (TC)**

CURRENT GRANT SUPPORT:

P50HD052117 PI: J.M. Fletcher **\$8,400,000 (TC)**

10/1/2017-9/30/2022 PI Project 4: J Juranek

NIH/NICHD

Texas Center for Learning Disabilities

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 6-8, and conduct neuroimaging studies of students in various phases of intervention.

PI Project 4: Brain organization and network connectivity in persistent reading difficulties: A multimodal neuroimaging study.

JW150014 PI: Charles S. Cox, Jr. **\$6,789,072 (TC)**

10/01/2016-09/01/2020 Co-I: J Juranek

Department of Defense/Joint Warfighter Medical Research Program

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

This project plan will assess structural 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

DoD Supplemental funding PI: Charles S. Cox, Jr. **\$1,416,867 (TC)**

11/01/2017-09/01/2020 Co-I: J Juranek

Department of Defense/Joint Warfighter Medical Research Program

PET DTI-MRI in adult TBI

This project will assess microglial activation and inflammation in adults treated with and without autologous bone marrow mononuclear cells.

1 R01 NS077963-01A1 PI: Charles S. Cox, Jr. **\$3,432,964 (TC)**

04/01/2013 - 3/30/2018 Co-I: J 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 MRI acquisitions and analyses

W81XWH-19-10539 PI: Charles S. Cox, Jr. \$2,953,670 (TC)
09/01/2019-08/31/2022 Co-I: J Juranek

Department of Defense U.S. Army Medical Research and Materiel Command
Microvascular barrier biomarkers to predict ICP therapeutic intensity after severe TBI.
Goals: Syndecan-1 release predicts the cerebral edema/therapeutic intensity level for intracranial hypertension phenotype after TBI. The presence of hemorrhagic shock/resuscitation exacerbates the edemagenic phenotype.

COMPLETED GRANT SUPPORT:

5U01HD068541-05 PI: E. Thom (George Washington University)
Subcontract (NIH/NINDS) PI: J Juranek \$324,662 (TC)

8/1/2011 – 7/30/17 (NCE)

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, MRI acquisitions and analyses

BB-IND-12620, BB-IND-14214 PI: Charles S. Cox, Jr. \$910,000 (TC)
9/1/2013 – 8/30/2017 Co-I: J Juranek

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 responsible for MRI acquisitions and analyses

2R01NS046308 PI: Linda Ewing-Cobbs \$2,896,105 (TC)
07/01/2011- 06/30/2017 Co-I: J 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 MRI acquisitions and analyses

P50HD052117-07 PI: Jack M. Fletcher (University of Houston)
12/01/2011- 11/30/2016 PI of Project 4: J Juranek \$473,362 (TC)
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 Project 4: Neural Correlates of Reading Comprehension in Typical and Struggling Readers: A Multimodal Neuroimaging Study

W81XWH-11-1-0460 PI: Charles S. Cox, Jr. \$6,133,718 (TC)
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

Subcontract PI: Leanne Tamm (UT Southwestern)
1/1/11 – 12/31/2011 PI: Jenifer Juranek \$6,750 (TC)

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 PI: Jack M. Fletcher (University of Houston)
06/01/2006 – 11/29/2011 PI of Project 4: Andrew C. Papanicolaou
NIH/NICHD

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 PI: Jack M. Fletcher (University of Houston)
01/01/08 – 11/29/11 PI of subaward: J Juranek \$161,924 (TC)
NIH/NICHD

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

PI: Jack M. Fletcher (University of Houston)
PI of subaward: J Juranek \$66,675 (TC)

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

PI: Jack M. Fletcher (University of Houston)
PI of subaward: 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

PI: 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

PI: 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

PI: Pauline A. Filipek

1999 – 2005

NIH/NINDS

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

PUBLICATIONS:

A. Abstracts

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., **Juraneck, J.** Visualization of pharmacological lesions made with biotinylated ibotenic acid. Society for Neuroscience 1997; 883.4
4. **Juraneck, 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. **Juraneck, 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., **Juraneck, J.**, Gargus, J.J, Smith, M., Ramos, E.R., Mays, L.Z., Bocian, M., Lauhere, 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., **Juraneck, 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. **Juraneck, 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., **Juraneck, 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., **Juraneck, 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., **Juraneck, J.**, Sarkari, S. and Papanicolaou, A.C. A Multi-Scale Whole-Brain Optimized Diffusion Tensor Imaging of Dyslexics at 3.0T. ISMRM, 2007.
12. **Juraneck, 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., **Juraneck, 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., **Juraneck, 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 **Juraneck, 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., **Juraneck, 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., **Juraneck, J.**, Cirino, P., Hasan, K., Fletcher, J. Strong and weak metric rhythm identification in spina bifida meningocele in relation to parcellated anterior and posterior cerebellar volumes. Neuroscience & Music III: Disorders & Plasticity. Montreal, Canada, 2008.
18. **Juraneck, 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., **Juraneck, 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. **Juraneck, 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., **Juraneck, 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., **Juraneck 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., **Juraneck, 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., **Juraneck, 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., **Juraneck, 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., **Juraneck, 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. **Juraneck, 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., **Juraneck, J.**, Tamm, L. Deficits in fluid reasoning associated with hypoactivation in ADHD: fMRI evidence. 22nd Eunethydis Meeting in Budapest, Hungary, 2011.
29. **Juraneck, 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 meningomyelocele. Annual Human Brain Mapping Meeting, Quebec City, Canada, 2011.
30. **Juraneck, 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., **Juraneck, 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.
32. Bradley, K.A., **Juraneck, J.**, Fletcher, J.M. Deterministic tractography of the corpus callosum in children with spina bifida myelomeningocele. Human Brain Mapping, Hamburg, Germany, 2014.
33. Roe, M.A., Martinez, J.E., Mumford, J.A., **Juraneck, J.**, Olmedo, L.A., Poldrack, R.A., Vaughn, S.R., Fletcher, J.M., Church, J.A. Neural correlations of reading comprehension pre- and post-intervention in struggling readers. Society for Neuroscience Conference, 2014.
34. Bradley, K.A., **Juraneck, J.**, Romanowska-Pawliczek, A., Hannay, H.J., Cirino, P.T., Dennis, M., Fletcher, J.M. Corpus callosum microstructure and auditory interhemispheric transfer in spina bifida myelomeningocele. International Neuropsychological Society Annual Meeting, Denver, CO, 2015.
35. Fernandez, V.G., **Juraneck, J.**, Romanowska-Pawliczek, A., Stuebing, K., Williams, V.J., Fletcher, J.M. Cortico-cerebellar connectivity in reading impaired children. International Neuropsychological Society Annual Meeting, Denver, CO, 2015.
36. Roe, M.A., Martinez, J.E., Mumford, J.A., **Juraneck, J.**, Olmedo, L.A., Poldrack, R.A., Vaughn, S.R., Fletcher, J.M., Church, J.A. Stop-signal inhibition in pre- and post-intervention struggling readers. Society for Research in Child Development Conference, 2015.
37. Roe, M.A., Martinez, J.E., Mumford, J.A., DeMaster, D.M., **Juraneck, J.**, Olmedo, L.A., Poldrack, R.A., Vaughn, S.R., Fletcher, J.M., Church, J.A. Neural correlations of reading comprehension and stop-signal inhibition in typical and struggling readers. Cognitive Development Society, 2015.
38. Romanowska-Pawliczek, A., **Juraneck, J.**, Cirino, P. T., Fletcher, J.M. A DTI study of structural connectivity within the reading network of young struggling readers. Human Brain Mapping, Honolulu, HI, 2015.
39. Cox, Charles, S., Dash, P., **Juraneck, J.**, Ewing-Cobbs, L. Progenitor cell therapy for adult TBI: preclinical findings and clinical outcomes. National Neurotrauma Society Sante Fe, New Mexico, June 2015.
40. Williams, V.J., **Juraneck, J.**, Stuebing, K., Cirino, P.T., Fletcher, J.M. Increased gyrification and thinner cortex in children with poor single word decoding skills. International Neuropsychological Society, Boston, MA, February 2016.

41. Roe, M. A., Deschner, L., Martinez, J. E., Mumford, J. A., DeMaster, D.M., **Juraneck, J.**, Church, J. A. Neural Correlates of Reading Comprehension in Struggling and Typical Readers. Cognitive Neuroscience Society, New York City, NY, April 2-5, 2016.
42. Roe, M. A., Martinez, J. E., Mumford, J. A., DeMaster, D.M., **Juraneck, J.**, Olmedo, L. A., Poldrack, R. A., Vaughn, S. R., Fletcher, J. M., Church, J. A. Neural correlates of reading comprehension and stop-signal inhibition in struggling and typical readers, Cognitive Development Society Columbus, OH, October 9-10, 2015.
43. Church, J.A., Roe, M. A., **Juraneck, J.**, DeMaster, D.M., Martinez, J. E., Vaughn, S. R., Fletcher, J. M. An fMRI study of sentence reading and response inhibition in pre- and post-intervention struggling readers. IDA Annual Reading, literacy, and learning Conference Grapevine, TX, October 28-31, 2015.

B. Refereed Original Articles in Journals

* denotes graduate student while being mentored by J Juraneck

** denotes postdoctoral research fellow while being mentored by J Juraneck

1. Metzner, W., **Juraneck, J.** A sensory brain map for each behavior? Proceedings of the National Academy of Sciences, USA 94:14798-14803, 1997.
2. Metzner, W., **Juraneck, J.** A method to biotinylate and histochemically visualize ibotenic acid for pharmacological inactivation studies. Journal of Neuroscience Methods 76:143-50, 1997.
3. **Juraneck, 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. **Juraneck, J.**, Metzner, W. Segregation of behavior-specific synaptic inputs to a vertebrate neuronal oscillator. Journal of Neuroscience 18(21):9010-9019, 1998.
5. **Juraneck, 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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50. Williams, V.J.** , **Juraneck, J.**, Cirino, P., Fletcher, J.M. Cortical thickness and local gyrification in children with developmental dyslexia. *Cerebral Cortex* 28(3):963-973,2018.
51. Engelhardt, L.E.* , Roe, M.A.* , **Juraneck, J.**, DeMaster, D.** , Harden, K.P., Tucker-Drob, E.M., Church, J.A. Children's head motion during fMRI tasks is heritable and stable over time. *Developmental Cognitive Neuroscience* 25:58-68, 2017.
52. Arrington, C.N.* , Kulesz, P.A.** , **Juraneck, J.**, Cirino, P.T., Fletcher, J.M. White Matter Microstructure Integrity in Relation to Reading Proficiency. *Brain and Language* 174:103-111, 2017.
53. DeMaster, D., Johnson, C.P., **Juraneck, J.**, Ewing-Cobbs, L. Memory and the Hippocampal Formation Following Pediatric Traumatic Brain Injury. *Brain and Behavior* 7(12): e00832, 2017.
54. Nugiel T, Roe MA, Taylor WP, Cirino PT, Fletcher JM, **Juraneck J**, Church JA. Brain activity in struggling readers before intervention relates to future reading gains. *Cortex* 111:286-302, 2019.
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56. Church JA, Cirino PT, Miciak J, **Juraneck J**, Vaughn S, Fletcher JM. Cognitive, Intervention, and Neuroimaging Perspectives on Executive Function in Children With Reading Disabilities. *New Dir Child Adolesc Dev.* (165):25-54, 2019.
57. Cox, CS, Jr, **Juraneck J**, Bedi S. Clinical trials in traumatic brain injury: cellular therapy and outcome measures. *Transfusion* 59(S1):858-868, 2019.

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.
2. Spina bifida: brain and neurobehavioral outcomes. In Cognitive and behavioral neurology in developmental age. Riva, D and Bulgheroni, S (Eds). Editions John Libbey Eurotext, Montrouge, France, 2015.
3. **Juranek, J.** Advanced Diffusion Tensor Imaging in Severe Traumatic Brain Injury. In Pre-Clinical and Clinical Methods in Brain Trauma Research. Srivastava, A.K. and Cox, C.S. (Eds), in press.

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 Oral 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.
6. Romanowska-Pawliczek, A., Juranek, J., Cirino, P. T., Fletcher, J.M. A DTI study of structural connectivity within the reading network of young struggling readers. Human Brain Mapping, Honolulu, HI, June 2015.
7. Cox, Charles, S., Dash, P., Juranek, J., Ewing-Cobbs, L. Progenitor cell therapy for adult TBI: preclinical findings and clinical outcomes. National Neurotrauma Society Sante Fe, New Mexico, June 2015.
8. Juranek, J. Baseline cortical thickness in frontal regions characterizes future responders to reading intervention. Society for the Scientific Study of Reading, Brighton, UK, July 2018.
9. Juranek, J. Future responders vs non-responders to an intensive reading intervention: Relations of fluency and passage comprehension with brain organization and connectivity. XVI European Congress of Psychology, Moscow, Russia, July 2019.

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.
4. 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.
5. 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.
6. Juranek, J. Invited speaker to present multi-modal neuroimaging methods as complementary information for integration with neuropsychological assessment data. Houston, TX, 2009.
7. 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.

8. 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.
9. 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.
10. Juranek, J. Quantitative neuroimaging in spina bifida. Lonestar LEND program at UT-H, May 22, 2012. Invited by Dr. Pauline Filipek.