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Academic Degrees

- Ph.D., Neuroscience 2008
Washington University in St. Louis, Division of Biology and Biological Sciences
Dissertation: “*Neuroimaging studies of typical and atypical development*”
PhD mentors: Bradley L. Schlaggar, M.D., Ph.D., and Steven E. Petersen, Ph.D.
- A.B., *cum laude*, Neuroscience major, Psychology minor – *highest honors in neuroscience* 2002
Smith College, Northampton, MA
Visiting Scholar, 2000-2001, Oxford University, Oxford, England

Professional Appointments

- Assistant Professor** 2012-present
Department of Psychology
Department of Psychiatry (by courtesy)
Institute for Neuroscience
Imaging Research Center
The University of Texas at Austin
- Primary Investigator** 2012-present
The Developmental Cognitive Neuroscience Lab
The University of Texas at Austin
- Postdoctoral Research Associate/Fellow** 2008-2012
Department of Neurology
Washington University School of Medicine
Advisors: Dr. Bradley L. Schlaggar, M.D., Ph.D., and Dr. Silvia A. Bunge, Ph.D. (UC Berkeley)

Research Interests

- Task control abilities in typical and atypical development
- The neural bases of task control (task-based and rest-based fMRI approaches)
- Brain changes related to behavioral improvement (e.g. via reading intervention)
- The impact of stress and puberty on task control development
- Predicting group membership from multivariate datasets
- Predicting future educational gains from brain activity
- Longitudinal trajectories of cognitive processing within typical and atypical individuals

Publications

* Graduate student advisee

** Former lab member

Roe M.A.* , Martinez J.E.** , Mumford J.A., Taylor W.P., Cirino P.T., Fletcher J.M., Juraneck J., **Church J.A.** (2018). Control engagement during sentence and inhibition fMRI tasks in children with reading difficulties. Advance Online July 27th, *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhy170>

Engelhardt L.E.* , **Church J.A.**, Harden K.P., Tucker-Drob E. (2018). Accounting for the shared environment in cognitive abilities and academic achievement with measured socioecological contexts. Accepted at *Developmental Science*.

Martinez J.E.** , Mack M.L., Bauer J-R. ** , Roe M.A.* , **Church J.A.** (2018) Perceptual biases during cued task switching relate to decision process differences between children and adults. *Journal of Experimental Psychology: Human Perception and Performance*. Advance online publication. <http://dx.doi.org/10.1037/xhp0000552>.

Bauer J-R.** ‡, Martinez J.E.** ‡, Roe M.A.* , **Church J.A.** (2017). Consistent performance differences between children and adults despite manipulation of cue-target variables. *Frontiers in Psychology: Developmental*, 8,1304. ‡ Co-first authors. <https://doi.org/10.3389/fpsyg.2017.01304>

Engelhardt L.E.* , Roe M.A.* , Juraneck J., DeMaster D., Harden K.P., Tucker-Drob E.M., **Church J.A.** (2017). Children's head motion during fMRI tasks is heritable and stable over time. *Developmental Cognitive Neuroscience*, 25, 58-68. <https://doi.org/10.1016/j.dcn.2017.01.011>

Tucker-Drob E.M., Grotzinger A., Briley D.A., Engelhardt L.E.* , Mann F.D., Patterson M., Kirschbaum C., Adam E.K., **Church J.A.**, Tackett J.L., Harden K.P. (2017). Genetic influences on hormonal markers of chronic HPA function in human hair. *Psychological Medicine*, 47(8), 1389-1401. <https://doi.org/10.1017/S0033291716003068>

Church J.A., Bunge S.A., Petersen S.E., Schlaggar B.L. (2017). Preparatory engagement of cognitive control networks increases late in childhood. *Cerebral Cortex*, Mar 1;27(3), 2139-2153. <https://doi.org/10.1093/cercor/bhw046>

Engelhardt L.E.* , Mann F.D., Briley D.A., **Church J.A.**, Harden K.P., Tucker-Drob E.M. (2016). Strong genetic overlap between executive functions and intelligence. *Journal of Experimental Psychology: General*, 145(9), 1141-1159. <http://dx.doi.org/10.1037/xge0000195>

Greene D.J., **Church J.A.**, Dosenbach N.U.F., Nielsen A.N., Adeyemo B., Nardos, B., Petersen S.E., Black K.J., Schlaggar B.L. (2016). Multivariate pattern classification of pediatric Tourette syndrome using functional connectivity MRI. *Developmental Science*, 19(4), 581-598. <https://doi.org/10.1111/desc.12407>

Stewart S.B., Greene D.J., Lessov-Schlaggar C.N., **Church J.A.**, Schlaggar B.L. (2015). Clinical correlates of parenting stress in children with Tourette syndrome and in typically developing children. *Journal of Pediatrics*, 166(5), 1297-1302 e3 <https://doi.org/10.1016/j.jpeds.2015.01.041>

Church J.A., Schlaggar B.L. (2014). Pediatric Tourette syndrome: insights from recent neuroimaging studies. *Journal of Obsessive-Compulsive and Related Disorders. Special Issue: Tourette Syndrome Update*, 3(4), 386-393. <https://doi.org/10.1016/j.jocrd.2014.04.002>

- Siegel J.S., Power J.D., Dubis J.W., Vogel A.C., **Church J.A.**, Schlaggar B.L., Petersen S.E. (2014). Statistical improvements in fMRI analyses produced by censoring high motion datapoints. *Human Brain Mapping*, 35(5), 1981-1996. <https://doi.org/10.1002/hbm.22307>
- Williams A.C., McNeely M.E., Greene D.J., **Church J.A.**, Warren S.L., Hartlein J.M., Schlaggar B.L., Black K.J., Wang L. (2013). A pilot study of basal ganglia and thalamus structure by high dimensional mapping in children with Tourette syndrome. *F1000Research*, 2, 207. <http://dx.doi.org/10.12688/f1000research.2-207.v1>
- Vogel A.C., **Church J.A.**, Power J.D., Miezin F.M., Petersen S.E., Schlaggar B.L. (2013). Functional Network Architecture of Reading-Related Regions Across Development. *Brain and Language*, 125(2), 231-43. <https://doi.org/10.1016/j.bandl.2012.12.016>
- Church J.A.**, Petersen S.E., Schlaggar B.L. (2012). Comment on “The physiology of developmental changes in BOLD functional imaging signals” by Harris, Reynell, and Attwell. *Developmental Cognitive Neuroscience*, 2(2), 220-222. <https://doi.org/10.1016/j.dcn.2011.10.003>
- Barnes K.A., Nelson S.M., Cohen A.L., Power J.D., Coalson R.S., Miezin F.M., Vogel A.C., Dubis J.W., **Church J.A.**, Petersen S.E., Schlaggar B.L. (2012). Parcellation in left lateral parietal cortex is similar in adults and children. *Cerebral Cortex*, 22(5), 1148-1158. <https://doi.org/10.1093/cercor/bhr189>
- Power J.D., Cohen A.L., Nelson S.M., Wig G.S., Barnes K.A., **Church J.A.**, Vogel A.C., Laumann T.O., Miezin F.M., Schlaggar B.L., Petersen S.E. (2011). Functional network organization of the human brain. *Neuron*, 72, 665-678. <https://doi.org/10.1016/j.neuron.2011.09.006>
- Dosenbach N.U.F., Nardos B., Cohen A.L., Fair D.A., Power J.D., **Church J.A.**, Nelson S.M., Wig G.S., Vogel A.C., Lessov-Schlaggar C.N., Barnes K.A., Dubis J.W., Feczko E., Coalson R.S., Pruett J.R., Barch D.M., Petersen S.E., Schlaggar B.L. (2010). Prediction of individual brain maturity using fMRI. *Science*, 329(5997), 1358-1361. <https://doi.org/10.1126/science.1194144>
- Church J.A.**, Balota D.A., Petersen S.E., Schlaggar B.L. (2011). Manipulation of length and lexicality localizes the functional neuroanatomy of phonological processing in adult readers. *Journal of Cognitive Neuroscience*, 23(6), 1475-1493. <https://doi.org/10.1162/jocn.2010.21515>
- Church J.A.**, Petersen S.E., Schlaggar B.L. (2010). The Task B problem and other issues in developmental functional neuroimaging. *Human Brain Mapping*, 31(6), 852-862. <https://doi.org/10.1002/hbm.21036>
- Church J.A.**, Wenger K.K., Dosenbach N.U.F., Miezin F.M., Petersen S.E., Schlaggar B.L. (2009). Task control signals in pediatric Tourette syndrome show evidence of immature and anomalous functional activity. *Frontiers in Human Neuroscience*, 3:38. <https://doi.org/10.3389/neuro.09.038.2009>
- Fair D.A., Cohen A.L., Power J.D., Dosenbach N.U.F., **Church J.A.**, Miezin F.M., Schlaggar B.L., Petersen S.E. (2009). Functional brain networks develop from a “local to distributed” organization. *PLoS Computational Biology*, 5(5): e1000381. <https://doi.org/10.1371/journal.pcbi.1000381>
- Schlaggar B.L., **Church J.A.** (2009). Functional neuroimaging insights into the development of skilled reading. *Current Directions in Psychological Science*, 18(1), 21-26. <https://doi.org/10.1111/j.1467-8721.2009.01599.x>
- Ihnen S.K., **Church J.A.**, Petersen S.E., Schlaggar B.L. (2009). Lack of generalizability of sex differences in the fMRI BOLD activity associated with language processing in adults. *NeuroImage*. 45(3), 1020-32. <https://doi.org/10.1016/j.neuroimage.2008.12.034>

Church J.A., Fair D.A., Dosenbach N.U.F., Cohen A.L., Miezin F.M., Petersen S.E., Schlaggar B.L. (2009). Control networks in pediatric Tourette Syndrome show immature and anomalous patterns of functional connectivity. *Brain*, *132*(1), 225-38. <https://doi.org/10.1093/brain/awn223>

Church J.A., Coalson R.S., Lugar H.M., Petersen S.E., Schlaggar B.L. (2008). A developmental fMRI study of reading and repetition reveals changes in phonological and visual mechanisms over age. *Cerebral Cortex*, *18*(9), 2054-65. <https://doi.org/10.1093/cercor/bhm228>

Fair D.A., Cohen A.L., Dosenbach N.U.F., **Church J.A.**, Miezin F.M., Barch D.M., Raichle M.E., Petersen S.E., Schlaggar B.L. (2008). The maturing architecture of the brain's default network. *PNAS*, *105*(10), 4028-4032. <https://doi.org/10.1073/pnas.0800376105>

Fair D.A., Dosenbach N.U.F., **Church J.A.**, Cohen A.L., Brahmbhatt S., Miezin F.M., Barch D.M., Raichle M.E., Petersen S.E., Schlaggar B.L. (2007). Development of distinct control networks through segregation and integration. *PNAS*, *104*(33), 13507-13512. <https://doi.org/10.1073/pnas.0705843104>

Wraga M., Duncan L., Jacobs E.C., Helt M., **Church J.** (2006). Stereotype susceptibility narrows the gender gap in imagined self-rotation performance. *Psychonomic Bulletin & Review*, *13*(5), 813-819. <http://dx.doi.org/10.3758/BF03194002>

Burns J.M., **Church J.A.**, Johnson D.K., Xiong C., Marcus D., Fotenos A.F., Snyder A.Z., Morris J.C., Buckner R.L. (2005). White matter lesions are prevalent but differentially related with cognition in aging and early Alzheimer disease. *Arch Neurol*, *62*(12), 1870-6. <http://dx.doi.org/10.1001/archneur.62.12.1870>

Wraga M., Shephard J.M., **Church J.A.**, Inati S., Kosslyn S.M. (2005). Imagined rotations of self versus objects: an fMRI study. *Neuropsychologia*, *43*(9), 1351-61. <https://doi.org/10.1016/j.neuropsychologia.2004.11.028>

de Villiers P.A., **Church J.**, Giordano R., Whalen M., & Hoffmeister R. (2000). Reference to protagonists' mental states in the written narratives of deaf children: the contribution of English syntax and ASL skills. In Howell, S.C., Fish, S. & Keith-Lucas, T. (Eds.). *Proceedings of the 24th Annual Boston University Conference on Language Development*. Somerville, MA: Cascadilla Press. pp 265-275.

Other Writings/Press

Church, J.A. Texas Center for Learning Disabilities. Education Research Matters: October, 2017. Review and summary of Alcauter et al. 2017. <https://www.texasldcenter.org/education-research-matters/item/october-2017>

Interview for NYTimes op-ed: "If Tech Execs Act Like Spoiled Brats, Should We Spank Them?" by John Swartz. New York Times. July 14, 2017. <https://www.nytimes.com/2017/07/14/business/mutfund/if-tech-execs-act-like-spoiled-brats-should-we-spank-them.html>

Church, J.A. Texas Center for Learning Disabilities. Education Research Matters: August, 2016. Review and summary of Friedman et al. 2016. <https://www.texasldcenter.org/education-research-matters/item/august-2016>

Church, J.A. "What You Can Do to Make Lasting, Meaningful Memories for the Holidays." Texas Perspectives. Fort Worth Star Telegram. Dec. 21/22, 2015. <https://news.utexas.edu/2015/12/22/op-ed-how-to-make-meaningful-memories-for-the-holidays>

Interview for St. Louis Public Radio: “Finding student success in the tree tops at Maplewood Richmond Heights” by Tim Lloyd. Dec. 14, 2015. <http://news.stlpublicradio.org/post/finding-student-success-tree-tops-maplewood-richmond-heights#stream/0>

Church, J.A. Texas Center for Learning Disabilities. Education Research Matters: July, 2015. Review and summary of Dehaene et al. 2015. <https://www.texasldcenter.org/education-research-matters/item/july-2015>

Interview for Inside Science: “How Does a Young Brain Read?” by Chris Cesare. March 16, 2015. <https://www.insidescience.org/news/how-does-young-brain-read>

Church, J.A. Texas Center for Learning Disabilities. Education Research Matters: June, 2014. Review and summary of Vogel et al. 2014. <https://www.texasldcenter.org/education-research-matters/item/june-2014>

Church, J.A. Texas Center for Learning Disabilities. Education Research Matters: June, 2013. Review and summary of Kidd et al. 2013. <https://www.texasldcenter.org/education-research-matters/item/june-2013>

Research Grants

Fletcher, J.M. (overall PI). “Texas Center for Learning Disabilities.” NIH: NICHD. 2P50HD052117. Awarded. 2017-2022. Total funding ~ \$9,709,018. Role: Subcontract PI (Austin, TX) for Project 4: Multimodal Neuroimaging. Subcontract costs per year ~ \$110k + MRI scan charges

Booth, J.R. (PI). “Interactive Specialization of Language Impairment.” NIH: NIDCD. 5R01DC013274. Awarded. 2014-2019. Total funding: ~\$3,220,187. Role: Local PI (Austin, TX) 2017-2019. Subcontract costs per year ~ \$600k

Church-Lang, J.A. (PI). “Parent-child dyad studies of sleep and brain function in ADHD.” Brain & Behavior Research Foundation: NARSAD Young Investigator Grant. Awarded. 2017-2019. Total funding ~\$52,850.

Church-Lang, J.A., Tucker-Drob, E. (Multiple-PI). “Chronic Stress and Executive Function in Children: A Neuroimaging Study of Twins.” NIH: NICHD. 1R21HD081437. Awarded. 2015-2017. Total funding ~\$424,875.

Fletcher, J.M. (PI). “Texas Center for Learning Disabilities.” NIH: NICHD. P50HD052117. Awarded. 2011-2017. Total funding ~ \$10,512,357. Role: Subcontract PI (Austin, TX) for Project 4: Multimodal Neuroimaging. Subcontract costs per year ~ \$110k + MRI scan charges

Church-Lang, J.A. (PI). Faculty Travel Grant. The University of Texas at Austin. Yearly, 2013-present.

Church-Lang, J.A. (Postdoctoral Fellowship). “Medication-induced changes in brain function in children with Tourette syndrome”. NIH: NINDS. NRSA F32NS065649. Awarded. 2010-2012.

Awards and Honors

2012-present: Wayne Holtzman Regents Chair in Psychology Fellow
 2016-2017: Department of Psychology nominee for Raymond Dickson Endowed Teaching Fellowship
 2014, 2015: Department of Psychology nominee for Dads' Assn. Cent. Teaching Fellowship
 2014-2015: The Josefina Paredes Endowed Teaching Award for junior faculty
 2013: UT Austin Nominee for the Microsoft Faculty Research Fellowship
 2013: Summer Research Assignment (SRA), The University of Texas at Austin
 2012-2013: UT Austin Nominee for the Pew Biomedical Research Fellowship
 2010-2011: Burroughs-Wellcome Fund 2010 Travel Grant
 2008-2009: Tourette Syndrome Association postdoctoral fellowship
 2007: James L. O'Leary Prize for Excellence in Neuroscience finalist, Washington University
 2002-2006: Spencer T. Olin Fellowship for Women, Washington University
 2003-2005: Markey Pathway in Human Pathobiology Fellowship, Washington University
 2004: Travel Award, Organization for Human Brain Mapping

Student/Mentee Funding & Awards

2017-2020: Ford Foundation Predoctoral Fellowship to former lab manager, Joel Martinez
 2015-2020: UT The Provost's Graduate Excellence Fellowship to grad student, Mary Abbe Roe
 2017-2018: UT Graduate Continuing Fellowship to co-mentored graduate student, Laura Engelhardt
 2017-2018: UT Liberal Arts: Dean's Distinguished Graduates Honorable Mention to undergraduate honors student, Emily Barnes
 2017-2018: NSF GRF Honorable Mention to former lab manager, Annie Zheng
 2016-2017: UT Graduate School Recruitment Fellowship to graduate student, Tehila Nugiel
 2014-2017: NSF Graduate Research Fellowship to co-mentored graduate student, Laura Engelhardt
 2015-2016: UT Undergraduate Research Fellowship to honors student, Alyssa Hernandez
 2015-2016: UT Hibbs Undergraduate Research Award to honors student, Alyssa Hernandez

Presentations

Invited Talks

Neuroimaging Studies of Control Engagement in Typical and Struggling Readers. Dept. Psychology and Human Development, Vanderbilt University. Nashville, TN. Sept. 2018

Texas Center for Learning Disabilities: Project 4 update. Learning Disability Research Center/Hub meeting, NICHD, Washington D.C., Dec. 2017

Stability and Flexibility in the Development of Task Control. Center for Vital Longevity, UT Dallas. Dallas, TX. April 2017

Reading Difficulties and Response to Intervention: A Neuroimaging Perspective. Statewide Evaluation Conference supporting educators and school personnel (SWEP 2017). Invited Speaker. Dallas, TX. Feb. 2017

Preparatory Task Control Development. Cognition & Cognitive Neuroscience Brownbag, Texas A&M. College Station, TX. Oct. 2016

Neuroimaging Insights into the Development of Task Control. Austin Neuropsychological Society (ANS). Austin, TX. Jan. 2016

An fMRI Study of Sentence Reading and Response Inhibition in Pre- and Post-Intervention Struggling Readers. NICHD symposium at the International Dyslexia Association (IDA) Annual Meeting. Invited Speaker. Grapevine, TX. Oct. 2015

Updated: August 12, 2018

fMRI and behavioral explorations of preparatory task control in late childhood. Invited speaker for the Neuroimaging Preconference at the Cognitive Development Society Biannual Meeting. Columbus, OH. Oct. 2015

Struggling readers before and after intervention. Invited speaker at the Flux 3rd International Congress for Integrative Developmental Cognitive Neuroscience. Leiden, Netherlands. Sept. 2015

Texas Center for Learning Disabilities: Project 4 update. Learning Disability Research Center/Hub meeting, NICHD, Washington D.C., Aug. 2015

Preparatory Task Control Development. Speaker at the Neurobiology brownbag talk series at UT San Antonio. San Antonio, TX. Feb. 2015

Texas Center for Learning Disabilities: Project 4 update. Learning Disability Research Center/Hub meeting, NICHD, Washington D.C., May 2014

Adaptive Task Control Signals in Typical Development. Grand Rounds in Child Neurology, Dell Children's Hospital. Austin, TX. July 2013

Invited Talks at The University of Texas at Austin

The Developmental Cognitive Neuroscience Lab. Student organization meeting: UT Science Undergraduates Research Group (SURGe). Austin, TX. Feb. 2018

Post-talk panelist for UT Brainstorms: The Eloquent Brain. Austin, TX. Oct. 2017

Reading Comprehension in the Child Brain: What's the Story? Dialogues Seminar Series, The Institute for Neuroscience. Austin, TX. Oct. 2017

Post-play talk-back on women in science. *The Effect* by Lucy Prebble at Hyde Park Theater, Austin, TX. Jun. 2017

Stability and Flexibility in the development of task control. Cognitive Science Area Meeting, Psychology Department. Austin, TX. May 2017

What's the DCN lab been up to? Behavioral Neuroscience Area Meeting, Psychology Department. Austin, TX. Feb. 2016

Why don't kids come with an instruction manual? Tips from Child Developmental Research. UT College of Liberal Arts Family Weekend. Austin, TX. Oct. 2015

The Developmental Cognitive Neuroscience Lab. UT Texas Student Psychological Association Meeting. Austin, TX. March 2015

Preparatory Task Control Development. Behavioral Neuroscience Area Meeting, Psychology Department. Austin, TX. Sept. 2014

Using neuroimaging to study task control in typical and atypical populations. Clinical Psychology Area Meeting, Psychology Department. Austin, TX. Nov. 2013

Adaptive Task Control Signals in Typical Development. Weekly Seminar Series, The Institute for Neuroscience. Austin, TX. Feb. 2013

Presentation on Presentations: Dazzle 'em tips. Cognitive Psychology Area Meeting, Psychology Department. Austin, TX. Feb. 2013

Adaptive Task Control Signals in Typical Development. Developmental Psychology Area Meeting, Psychology Department. Austin, TX. Oct. 2012

Conference Presentations

* Graduate student advisee

** Former or current lab member as research assistant or undergraduate

Poster: *Identifying twin pairs by classifying variability in whole-brain functional connectivity.* Demeter D.V.*, Engelhardt L.E.*, Mallet, R., Roe M.A.*, Nugiel T.N.*, Mitchell M.E.**; Juranek J., Harden K.P., Tucker-Drob E.M., Lewis-Peacock J.A., **Church J.A.** Accepted at the Society for Neuroscience 48th Annual Meeting. Nov. 2018

Poster: *Functional connectivity indicates distinct developmental trajectories of motor function and inhibitory control in Tourette Syndrome.* Nielsen A.N., **Church J.A.**, Gratton C., Dosenbach N.U.F., Petersen S.E., Black K.A., Schlaggar B.L., Greene D.J. Accepted at the Society for Neuroscience 48th Annual Meeting.

Symposium: *Neuroimaging the Typical and Atypical Development of Reading Over Time. Discussant.* Society for the Scientific Studies of Reading, Brighton, United Kingdom. July 2018

Mentee Symposium Talk: *Executive control engagement before and after intervention in struggling readers.* Roe M.A.*, **Church J.A.** Society for the Scientific Studies of Reading, Brighton, United Kingdom. July 2018

Mentee Symposium Talk. *Accounting for the shared environment in reading and math with measured socioecological contexts.* Engelhardt L.E.*, **Church J.A.**, Harden K.P., Tucker-Drob E. Society for the Scientific Studies of Reading, Brighton, United Kingdom. July 2018

Poster: *Data-driven subtyping of children with autism.* Roe M.A.*, **Church J.A.** Texas Autism Research Conference, Austin, TX. June 2018

Poster: *Neural markers for reading gains in children with reading difficulties.* Society for Neuroscience 47th Annual Meeting, Washington D.C. Nugiel T.*, Roe M.A.*, Taylor W.P., Fletcher J.M., Juranek J., **Church J.A.** Nov. 2017

Poster: *Overlapping regions of error-related activity across three tasks in children.* Flux 4th International Congress for Integrative Dev Cog Neuro, Portland, OR. Roe M.A.*, Engelhardt L.E.*, Juranek J., Harden K.P., Tucker-Drob E., **Church J.A.** Sept. 2017

Poster: *Common BOLD activity over three executive function tasks in middle childhood.* Flux 4th International Congress for Integrative Dev Cog Neuro, Portland, OR. Engelhardt L.E.*, Harden K.P., Tucker-Drob E., **Church J.A.** Sept. 2017

Poster: *Neural markers for reading gains in children with reading difficulties.* Flux 4th International Congress for Integrative Dev Cog Neuro, Portland, OR. Nugiel T.*, Roe M.A.*, Taylor W.P., Fletcher J.M., Juranek J., **Church J.A.** Sept. 2017

- Poster: *Externalizing behavior problems impact task performance across executive function domains in a developmental sample.* Flux 4th International Congress for Integrative Dev Cog Neuro, Portland, OR. Zheng A. **, Mitchell M. **, Wang T. **, Larsen M. **, **Church J.A.** Sept. 2017
- Symposium: *Neuroimaging of Factors that Influence Reading Development.* **Co-Chair and discussant.** Society for Research in Child Development, Austin, TX. April 2017
- Mentee Symposium Talk: *The Relationship Between Ratings of Attention and the Neural Correlates of Sentence Comprehension in Struggling Readers.* Society for Research in Child Development, Austin, TX. Roe M.A. *, Deschner L. **, DeMaster D., Juranek J., **Church J.A.** April 2017
- Symposium: *Cognitive Control Networks in Context.* **Chair and discussant.** Society for Research in Child Development, Austin, TX. April 2017
- Mentee Symposium Talk: *Task-control network activity over three control-demanding tasks in middle childhood.* Society for Research in Child Development, Austin, TX. Engelhardt L.E. *, Harden K.P., Tucker-Drob E.M., **Church J.A.** April 2017
- Poster: *Cued Task Switching Performance in Children with and without ADHD.* Society for Research in Child Development, Austin, TX. Zheng A. **, Hernandez A.M. **, Bauer J-R. **, Larsen M.E. **, **Church J.A.** April 2017
- Poster: *Neural correlates of reading improvement in struggling readers.* Flux 3rd International Congress for Integrative Dev Cog Neuro, St. Louis, MO. Roe M.A. *, Deschner L. **, DeMaster D., Juranek J., **Church J.A.** Sept. 2016
- Poster: *Eye movements relate to developmental differences in cued task switching performance.* Flux 3rd International Congress for Integrative Dev Cog Neuro, St. Louis, MO. Zheng A. **, McBride J. **, Martinez J.E. **, Deschner L. **, **Church J.A.** Sept. 2016
- Poster: *Comparing child task performance in and out of the scanner.* Flux 3rd International Congress for Integrative Dev Cog Neuro, St. Louis, MO. Engelhardt L.E. *, Harden K.P., Tucker-Drob, E.M., **Church J.A.** Sept. 2016
- Poster: *Neural correlates of reading comprehension in struggling and typical readers.* Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY. Roe M.A. *, Deschner L. **, Martinez J. **, Mumford J., DeMaster D., Juranek J., **Church J.A.** April 2016
- Poster: *An eye-tracking investigation of cue and target processing in typical development.* Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY. Zheng A. **, McBride J. **, Martinez J.E. **, Deschner L. **, **Church J.A.** April 2016
- Poster: *Reliability and heritability of children's head motion during fMRI tasks.* Cognitive Neuroscience Society 23rd Annual Meeting, New York, NY. Engelhardt L.E. *, Harden K.P., Tucker-Drob, E.M., **Church J.A.** April 2016
- Poster: *Neural correlates of reading comprehension and stop-signal inhibition in struggling and typical readers.* Cognitive Development Society 9th Biennial Meeting, Columbus, OH. Roe M.A. *, Martinez J.E. **, Mumford J.A., DeMaster D.M., Juranek J.J., Olmedo L.A. **, Poldrack R.A., Vaughn S.R., Fletcher J.M., **Church J.A.** Oct. 2015

- Poster: *The impact of OCD and ADHD symptoms symptomatology on parenting stress in children with Tourette syndrome and in typically developing children.* Annual Meeting of the Child Neurology Society, Washington, D.C. Stewart S., Greene D.J., Lessov-Schlaggar C., **Church J.A.**, Bischoff A., Schlaggar B.L. June 2015
- Talk: *Control activity in children with Tourette syndrome during task switching.* 1st World Congress for Tourette Syndrome Association, London, UK. **Church J.A.**, Bunge S.A., Petersen S.E., Schlaggar B.L. June 2015
- Talk: *Innovative methods increase sensitivity for detecting functional brain differences in Tourette syndrome.* 1st World Congress for Tourette Syndrome Association, London, UK. Greene D.J., **Church J.A.**, Dosenbach N.U.F., Adeyemo B., Gratton C., Laumann T., Nielson A., Shannon W., Petersen S.E., Black K.J., Schlaggar B.L. June 2015
- Poster: *The impact of OCD and ADHD symptoms symptomatology on parenting stress in children with Tourette syndrome and in typically developing children.* 1st World Congress for Tourette Syndrome Association, London, UK. Stewart S., Greene D.J., Lessov-Schlaggar C., **Church J.A.**, Bischoff A., Schlaggar B.L. June 2015
- Poster: *Stop-signal inhibition in pre- and post-intervention struggling readers.* Society for Research in Child Development Biennial Meeting, Philadelphia, PA. Roe M.A.* , Martinez J.E.** , Mumford J.A., Juranek J.J., Olmedo L.A.** , Podrack R.A., Vaughn S.R., Fletcher J.M., **Church J.A.** March 2015
- Poster: *Exploration of stimulus-level similarity effects in a cued task-switching paradigm.* Society for Research in Child Development Biennial Meeting, Philadelphia, PA. Martinez J.E.** , Bauer J-R.** , Roe M.A.* , **Church J.A.** March 2015
- Poster: *Neural correlates of reading comprehension pre- and post-intervention in struggling readers.* Society for Neuroscience 44th Annual Meeting, Washington D.C. Roe M.A.* , Martinez J.E.** , Mumford J.A., Juranek J.J., Olmedo L.A.** , Poldrack R.A., Vaughn S.R., Fletcher J.M., **Church J.A.** Nov. 2014
- Poster: *Manipulation of cue switching variables in children and adults.* Society for Neuroscience 44th Annual Meeting, Washington D.C. Bauer J-R.** , Martinez J.E.** , Roe M.A.* , **Church J.A.** Nov. 2014
- Poster: *Classification of children with Tourette syndrome using resting state functional connectivity MRI.* Society for Neuroscience 44th Annual Meeting, Washington D.C. Greene D.J., **Church J.A.**, Adeyemo B., Nardos B., Black K.J., Schlaggar B.L. Nov. 2014
- Mentee Talk: *Manipulation of cue switching variables in children and adults.* Flux 2nd International Congress for Integrative Dev Cog Neuro, Los Angeles, CA. Bauer J-R.* , Martinez J.E.** , Roe M.A.* , **Church J.A.** Sept. 2014
- Poster: *Classification of children with Tourette syndrome using resting state functional connectivity MRI.* Flux 2nd International Congress for Integrative Dev Cog Neuro, Los Angeles, CA. Greene DJ, **Church JA**, Adeyemo B, Nardos B, Black KJ, Schlaggar BL. Sept. 2014
- Poster: *The unity and diversity framework of executive functions in childhood: A behavioral genetics approach.* Flux 2nd International Congress for Integrative Dev Cog Neuro, Los Angeles, CA. Engelhardt L.E.* , Briley D.A., Mann F.D., **Church J.A.**, Harden K.P., Tucker-Drob E.M. Sept. 2014

- Poster: *Task control exploration using a cue-target paradigm in children and adults.* Organization for Human Brain Mapping, Hamburg, Germany. **Church JA**, Bunge SA, Petersen SE, Schlaggar BL. June 2014
- Poster: *Separate cue and target processing in typical development.* Flux 1st International Congress for Integrative Dev Cog Neuro, Pittsburgh, PA. **Church JA**, Bunge SA, Petersen SE, Schlaggar BL. Sept. 2013
- Poster: *Effects of high motion frames in task fMRI analysis.* Society for Neuroscience, 41st Annual Meeting, Washington D.C. Siegel J.S., Power J.D., Vogel A.C., **Church J.A.**, Schlaggar B.L., Petersen S.E. Nov. 2011
- Poster: *Functional neuroanatomical separation of rule preparation and task implementation in adolescents.* Society for Neuroscience, 40th Annual Meeting, San Diego, CA. **Church JA**, Lepore RL, McAvooy M, Miezin F, Petersen SE, Bunge SA, Schlaggar BL. Nov. 2010
- Poster: *Functionally defined regions across the brain organize into distinct community structures.* Society for Neuroscience, 39th Annual Meeting, Chicago, IL. Petersen SE, Power JD, Cohen AL, Nelson SM, Wig GS, Miezin FM, Vogel AC, **Church JA**, Schlaggar BL. Oct. 2009
- Poster: *Development of network structure in reading related regions.* Society for Neuroscience, 39th Annual Meeting, Chicago, IL. Vogel A.C., **Church J.A.**, Power J., Cohen A., Miezin F.M., Schlaggar B.L., Petersen S.E. Oct. 2009
- Talk: *Control networks in Tourette Syndrome.* Conference on Neurocognitive Development, Berkeley, CA. July 2009
- Talk: *A developmental fMRI study of reading and repetition reveals changes in phonological and visual mechanisms over age.* Society for the Scientific Study of Reading, Boston, MA. June 2009
- Poster: *Functional MRI analysis of control signals in adolescents with Tourette Syndrome.* Society for Neuroscience, 38th Annual Meeting, Washington, D.C. **Church J.A.**, Dosenbach N.U.F., Wenger K.K., Petersen S.E., Schlaggar B.L. Nov. 2008
- Poster: *Functional connectivity of reading-related regions in adults.* Human Brain Mapping, 14th Annual Meeting, Melbourne, Australia. Vogel A., **Church J.A.**, Miezin F.M., Schlaggar B.L., Petersen S.E. July 2008
- Talk: *Using functional connectivity MRI to study cognitive development: the abnormal structure of distinct task control networks in Tourette syndrome.* Society for Neuroscience, 37th Annual Meeting, San Diego, CA. Nov. 2007
- Poster: *Development of task control networks.* Child Neurology Society, 36th Annual Meeting, Quebec City, Canada. Dosenbach NUF, Fair DA, **Church JA**, Cohen AL, Miezin FM, Raichle ME, Petersen SE, Schlaggar BL. Oct. 2007
- Poster: *Regions showing developmental effects in reading studies show length and lexicality effects in adults.* Society for Neuroscience, 36th Annual Meeting, Atlanta, GA. **Church J.A.**, Petersen S.E., Schlaggar B.L. Nov. 2006

- Poster: *An fMRI study comparing reading repetition in children and adults*. Human Brain Mapping, 10th Annual Meeting, Budapest, Hungary. **Church JA**, Lugar HM, Coalson RS, Petersen SE, Schlaggar BL. June 2004
- Poster: *Neural correlates of enhanced spatial cognition performance in men*. Capitol Hill, Undergraduate Research Posters, Washington, D.C. Jacobs E., Wraga M., Duncan L., **Church J.** April 2004
- Poster: *fMRI study of men's enhanced spatial cognition performance during stereotype threat*. Cognitive Neuroscience Society, San Francisco, CA. Wraga M., Jacobs E., Duncan L., **Church J.** April 2004
- Poster: *Event-related fMRI study of imaginal self and object rotations*. Cognitive Neuroscience Society, San Francisco, CA. Wraga M., **Church J.**, Badre D. April 2002
- Poster: *Novel Neurotrophin Enhancing Compound, KP66, Attenuates Behavioral Deficits in a Rodent Model of Huntington's Disease*. Society for Neuroscience, 31st Annual Meeting, San Diego, CA. Gates T.A., **Church J.**, Hancock C., DeCorte R., & Dunbar G.L. Nov. 2001
- Poster: *Novel Neurotrophin Enhancing Compound, KP66, Attenuates Behavioral Deficits in a Rodent Model of Huntington's Disease*. SFN Michigan Chapter, Lansing, MI. Gates T.A., **Church J.**, Hancock C., DeCorte R., & Dunbar G.L. May 2001
- Poster: *Painting the landscape of consciousness: theory of mind and narrative skills in oral deaf children*. Research in Child Language Disorders, Madison, WI. de Villiers, P, de Villiers, J, Friedman J, **Church, J**, Gutowski, A, & Shlasko, G. June 2000
- Co-Talk with Peter de Villiers: "Reference to characters' mental states in the written narratives of deaf children – the contribution of English syntax and ASL skills. Issues in Language and Deafness, Omaha, NE. Oct. 1999
- Co-Talk with Peter de Villiers: *Reference to protagonists' mental states in the written narratives of deaf children: the contribution of English syntax and ASL skills*. Boston U. Conference on Language Development, Boston, MA Nov. 1999

Academic Advising and Student-related Service

Postdoctoral Researchers

Yael Weiss, Ph.D., 2017-present

- co-advisor with James Booth (Vanderbilt)

Christine Coughlin, Ph.D., Preston Lab, NIH F32 NRSA consultant

Nicole Varga, Ph.D., Preston Lab, NIH F32 NRSA consultant

Doctoral Students under direct supervision

Damion Demeter, Psychology, 2016-present

Tehila Nugiel, Psychology, 2016-present

Mary Abbe Roe, Psychology, 2015-present

Laura Engelhardt, Psychology, 2013-2018

- co-advisor with Elliot Tucker-Drob

Master's Students under direct supervision

Jessie-Raye Bodenhamer/Bauer, Psychology, 2013-2015

- current status: Ph.D. in Psychology with Dr. Amy Booth in 2018, entering data management

Doctoral Dissertation Committees

Robert Molitor, Cognitive Neuroscience area of Psychology, preparing proposal

Alex Birdsill, Clinical area of Psychology, defending summer 2018

Caitlin Clark, Developmental area of Psychology, defended May, 2016

Maliki Ghossainy, Developmental area of Psychology, defended August, 2015

Bolivar Jacquez, Developmental area of Psychology, defended August, 2015

Arianna Stefanatos, Clinical area of Psychology, defended July, 2015

Margaret Schlichting, Cognitive Neuroscience area of Psychology, defended May, 2015

Yamanda Wright, Developmental area of Psychology, defended November, 2014

Rachel Reetzke, Moody College of Communication, Comm Sci & Disorders, defended April, 2018

Jessica Wise Younger, Moody College of Communication, Comm Sci & Disorders, defended April, 2018

Colby Hall, College of Education, Department of Special Education, defended August, 2016

Additional Graduate Student Committees

Joseph O'Brien, Developmental area of Psychology, Master's committee

Melanie Netter, Developmental area of Psychology, Master's committee

Nicholas Griffin, Cognitive Neuroscience area of Psychology, Master's committee

Nicholas Griffin, Cognitive Neuroscience area of Psychology, Qualifying paper 2nd reader

Maliki Ghossainy Developmental area of Psychology, Qualifying paper 2nd reader

Caitlin Clark, Developmental area of Psychology, Qualifying paper 2nd reader

Jessica Wise Younger, Moody College of Communication, Comm Sci & Disorders, Advisory committee

Undergraduate Student Mentoring

Nikita Batra, Health Science Scholars Capstone project supervisor, 2017-2019

Emily Barnes, Plan II, Psychology Honors Thesis advisor, 2017-2018

Alyssa Hernandez, Psychology Honors Thesis advisor, 2015-2016

Suwetha Amsavelu, Plan II thesis 2nd reader, 2013-2014

Delayna Bradshaw and Marie Vu, CNS Undergraduate Research Forum Poster, April 2018

Tiffany Wang, Longhorn Research Bazaar Poster, April 2018

Mackenzie Mitchell, Longhorn Research Bazaar Poster, April 2017

Madison Tuazon, Bridging disciplines advisor, summer 2017

Kendall Coffey, Bridging disciplines advisor, spring 2016

Rawand Abdelghani, Bridging disciplines advisor, 2015-2016

Kevin Helgren, Bridging disciplines advisor, spring 2015

Lea Ann Thomas, Intellectual Entrepreneurship (IE) Program supervisor, 2016-2017

Alyssa Hernandez, Intellectual Entrepreneurship (IE) Program supervisor, spring 2015

Jessica Galvez, SURE summer student, summer 2016

Lynce Herrerra, SURE summer student, summer 2015

Former Lab Members in related fields

Annie Zheng, *former full-time lab manager*, Washington University doctoral program in Neuroscience

Joel Martinez, *former full-time lab manager*, Princeton University doctoral program in Psychology

Jessica Graves, *former paid research assistant*, University of Pittsburgh master's program in Statistics

Rawand Abdelghani, *former undergraduate researcher*, UT Austin, master's program in Social Work

Lauren Deschner, *former undergraduate researcher*, UT Health Science Center, medical school

Lea Ann Thomas, *former undergraduate researcher*, research assistant at the Children's Learning Institute, UTHSC at Houston

Administrative and Professional Service

Departmental Service

Search committee for Cognitive Neuroscience Professor, 2016, 2017
 Search committee for IRC Research Assistant Professor, 2014, 2015
 Mini Maker Faire, Children's Research Center booth, 2014, 2015
 Synchronous Massive Online Course (SMOC) committee, Psychology Department, Spring 2013

University and Local Service

Imaging Research Center (IRC) executive committee, 2014-present
 IRC pilot proposal grant committee, 2013-present
 Neuroscience (INS) admissions committee, 2015-2018
 IRC talk series co-coordinator, 2013-2015, spring 2016
 Neuroscience (INS) Bootcamp faculty talks, 2014, 2015
 Explore UT and Longhorn Halloween science outreach booths, 2013-

Guest Lectures:

SED 396C (grad) "Trends and Issues in LD and BD" lecture: *Reading in the child's brain: what's the story?* Spring 2018
 CGS360/LIN373/PHL365 "Intro to Cognitive Science" lecture: *Cognitive Control Networks*. Spring 2017, 2018
 PSY 341K "Language Processing" lecture: *The reading brain*. Spring 2018
 PSY 341K "Cognitive Neuroscience" lecture: *Developmental Cognitive Neuroscience*. Spring 2014, 2015
 PSY 387R "Principles of Cognitive Neuroscience" lecture(s): *Approaches for the study of cognitive development; Development of Task and Self Control*. Spring 2013, 2014, 2015, 2017

Professional Service

NSF ad-hoc reviewer, Developmental Sciences Program, Mar. 2018
 Consulting Editorial Board Member: Developmental Psychology, Jan. 2018-
 Texas Education Association (TEA) Educator Standards Advisory Committee EC (PK-3rd), 2017
 Science of Teaching Reading subcommittee (incl. writing standards)
 NIH Study section temporary CP reviewer, Feb. 2017
 NIH Study section ZRG1 CP-Z (07) S reviewer, Feb. 2017
 NSF GRFP reviewer, Jan. 2015
 SRCD conference abstract reviewer, 2016, 2014
 Review Editor, *Frontiers: Brain Imaging Methods*, Jan. 2015-

Peer Reviewer (ad hoc since 2008)

Acta Paediatrica, American Journal of Psychiatry, Australian Journal of Psychology, Behavior Research Methods, Biological Psychiatry, Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, Brain, Brain & Language, Brain Structure & Function, Cerebral Cortex, Child Development, Comprehensive Psychiatry, Cortex, Current Opinion in Behavioral Sciences, Developmental Cognitive Neuroscience, Developmental Psychobiology, Developmental Science, Frontiers in Human Neuroscience, Frontiers in Neuroscience: Brain Imaging Methods, Frontiers: Psychiatry, Frontiers: Psychology, Human Brain Mapping, International Journal of Developmental Neuroscience, Journal of Neurological Sciences, Journal of Neuropsychology, Journal of Neuroscience, NeuroImage, Neuropsychologia, Journal of Obsessive-Compulsive and Related Disorders, Journal of Pediatrics, PLOSone, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Psychological Medicine, Psychosomatic Medicine, Journal of Psychosomatic Research

Professional Memberships

Society for the Scientific Studies of Reading, 2009, 2017-present
Flux: The Society for Developmental Cognitive Neuroscience, 2013-present
Society for Research in Child Development, 2014-present
Society for Neuroscience, 2006-present
Organization for Human Brain Mapping, 2004, 2013-present
Cognitive Neuroscience Society, 2015-2016

Additional Educational Training

Ally Training. *Affirming LGBTQA+ People: Interpersonal Allyship parts I and II*. Gender and Sexuality Center, UT, 2018
“Modeling Developmental Change” pre-Flux Congress workshop, Portland, Oregon, September, 2017
“The John Merck Fund Summer Institute on the Biology of Developmental Disabilities” at Princeton University, Summer Institute Fellowship, 2006

Teaching Experience

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| <i>Graduate:</i> | 2016-2018 (Spring) PSY 383E “Area Seminar in Cognitive Neuroscience” |
| | 2016 (Spring) PSY 387S “Principles of Cognitive Neuroscience” |
| | 2015, 2017 (Fall) PSY 394S “Current topics in Developmental Psychology” |
| | 2015 (Spring) PSY 394S “Studying the Growing Brain: The latest findings in developmental cognitive neuroscience” |
| | 2006 (Fall) BIO 5565, “Oral Presentation of Scientific Data” |
| <i>Undergraduate:</i> | 2018, PSY 333D “Developmental Psychology” |
| | 2013, 2014, 2016 PSY 339, “Behavioral Problems in Children” |
| | 2012, 2013, 2014 PSY 304, “Intro to Child Psychology” |