Jason D. Yeatman, Ph.D.
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Education

- (2009-2014) Stanford University, Ph.D. in Psychology.
- (2002-2006) University of California San Diego, BA in Political Science, minor in Psychology.

Positions

- (2015-Current) Assistant Professor, Department of Speech & Hearing Sciences and Institute for Learning & Brain Sciences, University of Washington, Seattle, WA.
- (2014-2015) Research Scientist, Institute for Learning and Brain Sciences, University of Washington. Advisor: Patricia K. Kuhl, Ph.D.
- (2009-2014) Graduate Student, Stanford University Department of Psychology, VISTA Lab. Advisor: Brian A. Wandell, Ph.D.
- (2007-2009) Lab Manager, Stanford University School of Medicine, Neural Plasticity and Recovery Lab. Advisor: Heidi M. Feldman, M.D. Ph.D.

Publications

Peer reviewed journal articles

In review (preprints available on bioRxiv.org and psyArXiv.org)

- Donnelly, P.M., Huber, E., & **Yeatman, J.D.** (in revision). Intensive summer intervention drives linear growth of reading skill in children with dyslexia. *Journal of Learning Disabilities*. Preprint: https://psyarxiv.com/jfpe3/

Published (PDFs available at: http://BrainAndEducation.com/publications)

- Huber E.G., Donnelly, P.M., Rokem A., **Yeatman J.D.** (*conditional acceptance*). White matter plasticity and reading instruction: Widespread anatomical changes track the learning process. *Nature Communications.* Preprint: https://www.biorxiv.org/content/early/2018/02/22/268979
- Joo, S.J., White, A. L., Strodtman, D., & **Yeatman, J.D.** (*in press*). Optimizing text for an individual's visual system: The contribution of crowding to reading difficulties. *Cortex.* Preprint: http://psyarxiv.com/b3fy7
- **Yeatman J.D.**, Richie-Halford A., Smith J.K., Rokem A. (2018). A browser-based tool for visualization and analysis of diffusion MRI data. *Nature Communications.* 9(1):940
- Berman S., West K.L., Does M.D., **Yeatman J.D.**, Mezer A. (2017). Evaluating g-ratio weighted changes in the corpus callosum as a function of age and sex. *Neuroimage.*

- Joo S.J., Donnelly P.M., **Yeatman J.D.** (2017). The causal relationship between dyslexia and motion perception reconsidered. *Nature Scientific Reports.* 7:4185
- Kay K.N., **Yeatman J.D.** (2017). Bottom-up and top-down computations in word- and face-selective cortex. *Elife*. 6:e22431
- Sarica A., Cerasa A., Valentino P., **Yeatman J.D.** , Trotta M., Barone S., Granata A., Nisticò R., Perrotta P., Pucci F., Quattrone A. (2017). The Corticospinal Tract Profile in Amyotrophic Lateral Sclerosis. *Hum Brain Mapp.* 38(2):727-739
- Teubner-Rhodes S., Vaden K.I. Jr., Cute S.L., **Yeatman J.D.**, Dougherty R.F., Eckert M.A. (2016). Aging-Resilient Associations Between the Arcuate Fasciculus and Vocabulary Knowledge: Microstructure or Morphology? *J. Neurosci.* 36(27):7210-22
- **Yeatman J.D.**, Norcia A.M. (2016). Temporal Tuning of Word- and Face-Selective Cortex. *J. Cogn. Neurosci.*
- Weiner K.S.W., **Yeatman J.D.**, Wandell B.A. (2016). The Posterior Arcuate Fasciculus and the Vertical Occipital Fasciculus. *Cortex.*
- Travis K.E., Golden N.H., Feldman H.M., Solomon M., Nguyen J., Mezer A., **Yeatman J.D.**, Dougherty R.F. (2015). Abnormal White matter Properties in Adolescent Girls With Anorexia Nervosa. *Neuroimage Clin.* 23(9):648-59.
- Duan Y., Norcia A.M., **Yeatman J.D.**, Mezer A. (2015). The Structural Properties of Major White Matter Tracts in Strabismic Amblyopia. *Invest. Ophthalmol. Vis. Sci.* 1;56(9):5152-60.
- Rokem A., **Yeatman J.D.**, Pestilli F., Kay K.N., Mezer A., Van der Walt S., Wandell B.A. (2015). Evaluating the Accuracy of Models of Diffusion MRI in White Matter. *PLoS ONE.* 10(4):e0123272
- Takemura H., Rokem A., Winawer J., **Yeatman, J.D.,** Wandell B.A., & Pestilli F. (2015). A Major Human White Matter Pathway Between Dorsal and Ventral Visual Cortex. *Cerebral Cortex.*
- **Yeatman J.D.,** Weiner K.S., Pestilli F., Rokem A., Mezer A., Wandell B.A. (2014). The Vertical Occipital Fasciculus: A Century of Controversy Resolved by In Vivo Measurements. *Proc. Natl. Acad. Sci. U.S.A.* 111(48): E5214-E5223.
- **Yeatman J.D.**, Wandell B.A., Mezer A. (2014). Lifespan Maturation and Degeneration of Human Brain White matter. *Nature Communications.* 5:4932
- Pestilli F., **Yeatman J.D.**, Rokem A., Kay K.N., Wandell B.A. (2014). Evaluation and Sttatistical Inference for Human Connectomes. *Nature Methods.* 11(10), 1058-1063.
- Johnson R.T., **Yeatman J.D.**, Wandell B.A., Buonocore M.H., Amaral D.G., Nordahl C.W. (2013). Diffusion Properties of Major White Matter Tracts in Young, Typically Developing Children. *Neuroimage. 88, 143-154.*
- Main K.L., Pestilli F., Mezer A., **Yeatman J.D.**, Martin R., Phipps S., Wandell B.A. (2014). Speed discrimination predicts word but not pseudo-word reading rate in adults and children. *Brain and Language. 138*, 27-37.
- Ogawa S., Takemura H., Horiguchi H., Terao M., Haji T., Pestilli F., **Yeatman J.D.**, Tsuneoka H., Wandell B.A., Masuda Y. (2014). Invest. Ophthalmol. Vis. Sci. 25;55(10):6976-86
- Durrand V.N., Loe I., **Yeatman J.D.**, Feldman H.M. (2013). Effects of Early Language, Speech and Cognition on Later Reading: A Mediation Analysis. *Front Psychol.* 4:586

- Mezer, A., **Yeatman J. D**., Stikov N., Kay K., Cho N.J., Dougherty R. F., Perry L. M., Parvizi J., Hua L., Butts-Pauly K., Wandell B.A. (2013). Quantifying the Local Tissue Volume and Composition in Individual Brains with MRI. *Nature Medicine. 19(12), 1667-1672.*
- **Yeatman J.D.**, Rauschecker A.M., Wandell B.A., (2013). Anatomy of the Visual Word Form Area: Adjacent Cortical Circuits and Long-Range White Matter Connections. *Brain and Language. 125(2), 146-155.*
- Wandell B.A. & **Yeatman J.D.** (2013). Biological Development of Reading Circuits. *Curr Opin Neurobiol.* 23(2): 261-8.
- **Yeatman J.D.**, Dougherty R.F., Myall N.J., Wandell B.A., Feldman H.M. (2012) Tract Profiles of White Matter Properties: Automating Fiber-Tract Quantification. *PLoS ONE,* 7(11): E49790.
- **Yeatman J.D.**, Dougherty R.F., Ben-Shachar M., Wandell B. (2012). The Development of White Matter and Reading Skills. *Proc. Natl. Acad. Sci. U.S.A.* 109(44): E3045-53.
- Feldman H.M., Lee E.S., Yeatman J.D., Yeom K.W. (2012). Language and Reading Skills in School-Aged Children and Adolescents Born Preterm are Associated with White Matter Properties on Diffusion Tensor Imaging. *Neuropsychologia*, 50(14): 3348-62.
- Myall N.J., Yeom K.W., **Yeatman J.D.**, Gaman-Bean S., Feldman H.M. (2013). Case Series: Fractional Anisotropy Along the Trajectory of Selected White Matter Tracts in Adolescents Born Preterm With Ventricular Dilation. *Journal of Child Neurology*. *28*(6), 774-780.
- Barde L.H.F., **Yeatman J.D.**, Lee E.S., Glover G.F., Feldman H.M. (2012). Differences in neural activation between preterm and fullterm born adolescents on a sentence comprehension task: Implications for educational accommodation. *Developmental Cognitive Neuroscience,* doi: 10.1016/j.dcn.2011.10.002.
- **Yeatman J.D.** & Feldman H.M. (2012). Neural plasticity after pre-linguistic injury to the arcuate and superior longitudinal fasciculi. *Cortex,* doi: 10.1016/j.cortex.2011.08.006.
- Wandell, B.A., Rauschecker, A.M. & **Yeatman, J.D.** (2012). Learning to see words. *Annual Review of Psychology,* 63, 31-53.
- **Yeatman J.D.**, Dougherty R.F., Rykhlevskaia E., Sherbondy A.J., Deutsch G.K., Wandell B.A., Ben Shachar M. (2011). Anatomical Properties of the Arcuate Fasciculus Predict Phonological and Reading Skills in Children. *Journal of Cognitive Neuroscience,* 23(11), 3304-3317.
- Lee E.S., **Yeatman J.D.**, Luna B., Feldman H.M. (2011). Specific language and reading skills in school-aged children and adolescents are associated with prematurity after controlling for IQ. *Neuropsychologia,* 49(5), 906-913.
- Feldman H.M., **Yeatman J.D.,** Lee E.S., Barde L.H., Gaman-Bean S. (2010). Diffusion Tensor Imaging: A Review for Pediatric Researchers and Clinicians. *Journal of Developmental Behavioral Pediatrics* 31(4), 346-56.
- **Yeatman J.D.**, Ben-Shachar M., Glover G.F., Feldman H.M. (2010). Individual differences in auditory sentence comprehension in children: An exploratory event-related functional magnetic resonance imaging investigation. *Brain and Language* 114(2), 72-9
- **Yeatman J.D.**, Ben-Shachar M., Bammer R., Feldman H.M. (2009). Using Diffusion Tensor Imaging and Fiber Tracking to Characterize Diffuse Perinatal White Matter Injury: A Case Report, *Journal of Child Neurology* 24(7), 795-800.
- Andrews J.S., Ben-Shachar M., **Yeatman J.D.**, Luna B., Feldman H.M. (2009). Reading

Performance Correlates with White-Matter Properties in Preterm and Term Children, *Developmental Medicine and Child Neurology* 52(6), e94-100.

Non peer reviewed publications

- **Yeatman J.D.** (2016). What is the Role of the Visual System in Reading and Dyslexia? *International Dyslexia Association Examiner*. March, 2016.
- **Yeatman J.D.,** Feldman H.M. Review of Marlow N., Hennessy E.M., Bracewell M.A., Wolke D. (2008). Motor and Executive Function at 6 Years of Age After Extremely Preterm Birth. AA Fanaroff, RA Ehrenkranz, DK Stevenson (Eds) The Year Book of Neonatal and Perinatal Medicine. Philadelphia PA: Mosby.

Fellowships, honors and awards

- (2017) Early Career Award, Society for the Neurobiology of Language.
- (2017) Science of Learning Award, Flux: The Society for Developmental Cognitive Neuroscience.
- (2015) Hearst Fellowship for Research Translation, Outreach and Education.
- (2010-2013) National Science Foundation Graduate Research Fellowship.

Research Grants

- (2016-2019) "Biological Mechanisms Underlying the Acquisition of Reading Skills." NSF/BSF BCS #1551330. (PI: Yeatman)
- (2016-2020) "Visual Deficits and Individual Differences in Developmental Dyslexia." Microsoft Research Grant. (PI: Yeatman)
- (2018-2020) "The Florida Reading Disabilities Research Center." NICHD 2P50HD052120-11 (PI: Wagner, Co-I: Yeatman)
- (2017-2019) "Research on the Origins of Dyslexia." Philanthropy (PI: Yeatman)
- (2013) "Long-term, neurobiological consequences of infant language experience." Stanford Center for Cognitive and Neurobiological Imaging Neuroventures Grant.
- (2012) "Quantitative, high-resolution, MRI mapping of tissue properties in the human brain." Weston Havens Foundation Grant.
- (2012) "Retinotopic organization of white matter near visual cortex." Stanford Center for Cognitive and Neurobiological Imaging Neuroventures Grant.
- (2011) "Quantitative modeling of white matter development." Stanford University Developmental Psychology Haas Fund Grant.

Teaching

Course Instructor

- Spring, 2017: Language Science and Disorders (SPHSC 562)
- Winter 2016,-2018: Speech Language Hearing and the Brain (SPHSC 425)
- Spring 2016-2018: Cognitive and Integrative Neuroscience (NEURO 503)
- Spring, 2012: Statistics and data analysis in MATLAB (Psych 216A)

Workshops

- MR Diffusion Imaging: From Basics to Advanced Applications. Full day educational course. Organization for Human Brain Mapping annual meeting, Vancouver, British Columbia, Canada, June, 2017.
- MR Diffusion Imaging: From Basics to Advanced Applications. Full day educational course. Organization for Human Brain Mapping annual meeting, Geneva, Switzerland, June, 2016.
- fMRI Basics for Pediatric Researchers and Clinicians. Workshop for 2008 Society for Developmental and Behavioral Pediatrics Annual Meeting, Cincinnati OH, October 17, 2008.

Professional Organizations

- Society for Neuroscience
- Organization for Human Brain Mapping
- Society for the Neurobiology of Language

Selected outreach activities and media coverage

- "Despite Dyslexia". *University of Washington Columns Magazine, September, 2018.* http://magazine.washington.edu/feature/dyslexia/
- "What is the role of the visual system in reading and dyslexia". *International Dyslexia Association Examiner*. March 2016. https://dyslexiaida.org/what-is-the-role-of-the-visual-system-in-reading-and-dyslexia/
- "Foundations of Literacy" training module: http://modules.ilabs.uw.edu/module/foundations-of-literacy/
- "Development of Literacy" training module: http://modules.ilabs.uw.edu/module/development-of-literacy/
- "The neural circuitry of skilled reading" Washington Branch of the International Dyslexia Association talk series.
- University of Washington College of Arts and Sciences News Letter: "Decoding Dyslexia". https://artsci.washington.edu/news/2016-08/decoding-dyslexia
- Appearance on NPR's "The Record": http://kuow.org/post/scientists-discover-secret-corridor-brain-lost-100-years

Invited Talks

- Human Brain Mapping Educational Course, Vancouver, British Columbia. June 2017.
- University Nevada Reno, April, 2017.
- Neurocomputation and Engineering Connection, Seattle, Washington, January, 2017.
- Vision Lunch, Stanford University, Stanford California, December, 2017.
- American Speech-Language-Hearing Association, Philadelphia, Pennsylvania, November, 2016.
- Society for Neuroscience, San Diego, California, November 2016.
- Flux Conference Educational Neuroscience Symposium. September 2016.
- Human Brain Mapping Educational Course, Geneva, Switzerland. June 2016.
- Basque Center on Cognition Brain and Language, San Sebastian, Spain. June 2016.

- Florida Center for Reading Research, Florida State University, Tallahassee, Florida, May, 2016.
- Vision Science Society, St Pete Beach, Florida. May 2016.
- University of Pennsylvania, Philadelphia, Pennsylvania, March 2016.
- Georgetown University, Washington DC. March, 2016.
- Johns Hopkins University, Baltimore MD, March, 2016.
- University of Washington Institute for Neuroengineering. February, 2016.
- Microsoft Research, Redmond, Washington. January, 2016.
- Taskar center for accessible technology memorial event, Seattle, Washington. January 2016.
- KU Leuven, Leuven, Belgium. March, 2015
- Maastricht University, Maastricht, Netherlands. March 2015
- Institute national de la santé et de la recherché médicale – Neurospin, Paris, France. March 2015
- Morris Center, Ocala, Florida. May 2015
- Cognitive Development Society, Early development, conceptual change, and continuity: insights from cognitive neuroscience symposium, Columbus, Ohio. October 2015
- University of Minnesota, Minneapolis, Minnesota. November, 2015.
- University of California San Diego, San Diego, California. November 2015

University Service

Grant Review

- Research Royalty Fund (RRF) grant reviewer (2016, 2017).

Guest Lectures

- Cognitive and Integrative Neuroscience (Neuro 503). Teaching the section on human neuroscience (4 lectures). Spring 2016 and 2017.
- Evolution and Language (Prof. Chantel Pract). Guest lecture on reading. Winter 2016.
- Core concepts in perception (Prof. Ione Fine). Guest lecture on reading. Spring 2016.

National Service

Grant review

- National Science Foundation Grant Review Panelist.

Ad-Hoc Reviewing

- Nature Neuroscience
- Nature Communications
- Neuron
- PNAS
- Journal of Neuroscience
- Cerebral Cortex
- Brain and Language