




Jason Yeatman

Associate Professor of Pediatrics (Developmental-Behavioral Pediatrics), of Education and of Psychology

 Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrative Assistant**

Leslie Dinan - Administrative Assistant

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Bio

BIO

Dr. Jason Yeatman is an Associate Professor in the Graduate School of Education and Department of Psychology at Stanford University and the Division of Developmental and Behavioral Pediatrics at Stanford University School of Medicine. Dr. Yeatman completed his PhD in Psychology at Stanford where he studied the neurobiology of literacy and developed new brain imaging methods for studying the relationship between brain plasticity and learning. After finishing his PhD, he took a faculty position at the University of Washington's Institute for Learning and Brain Sciences before returning to Stanford.

As the director of the Brain Development and Education Lab, the overarching goal of his research is to understand the mechanisms that underlie the process of learning to read, how these mechanisms differ in children with dyslexia, and to design literacy intervention programs that are effective across the wide spectrum of learning differences. His lab employs a collection of structural and functional neuroimaging measurements to study how a child's experience with reading instruction shapes the development of brain circuits that are specialized for this unique cognitive function.

ACADEMIC APPOINTMENTS

- Associate Professor, Pediatrics
- Associate Professor, Graduate School of Education
- Associate Professor, Psychology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

PROGRAM AFFILIATIONS

- Symbolic Systems Program

LINKS

- Brain Development & Education Lab: <https://www.brainandeducation.com/>
- Rapid Online Assessment of Reading (ROAR): <https://roar.stanford.edu/>

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences
- Child Development
- Data Sciences
- Early Childhood
- Literacy and Language
- Psychology
- Research Methods
- Special Education
- Technology and Education

Teaching

COURSES

2023-24

- Measuring Learning in the Brain: EDUC 464, NEPR 464, PSYCH 279, SYMSYS 195M (Aut)

2021-22

- Educational Neuroscience: EDUC 266 (Spr)
- Literacy Research from Lab to School: EDUC 444A (Aut, Win)

2020-21

- Literacy Development and Instruction: EDUC 258 (Aut)
- Measuring Learning in the Brain: EDUC 464, NEPR 464, PSYCH 279, SYMSYS 195M (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Emily Kubota, Ethan Roy, Anna Xu

Postdoctoral Faculty Sponsor

Maha Ramamurthy, Carrie Townley-Flores, Maya Yablonski, Zihan Zhou

Doctoral Dissertation Advisor (AC)

Jamie Mitchell

Doctoral (Program)

Kruttika Bhat, Howard Chiu, Wanjing Anya Ma, Jamie Mitchell, Adele Smolansky, Ma Cherrysse Ulsa, Lijin Zhang

Publications

PUBLICATIONS

- **Rapid online assessment of reading and phonological awareness (ROAR-PA).** *Scientific reports*
Gijbels, L., Burkhardt, A., Ma, W. A., Yeatman, J. D.
2024; 14 (1): 10249

- **Reading instruction causes changes in category-selective visual cortex.** *Brain research bulletin*
Yeatman, J. D., McCloy, D. R., Caffarra, S., Clarke, M. D., Ender, S., Gijbels, L., Joo, S. J., Kubota, E. C., Kuhl, P. K., Larson, E., O'Brien, G., Peterson, E. R., Takada, et al
2024; 110958
- **Differences in educational opportunity predict white matter development.** *Developmental cognitive neuroscience*
Roy, E., Van Rinsveld, A., Nedelec, P., Richie-Halford, A., Rauschecker, A. M., Sugrue, L. P., Rokem, A., McCandliss, B. D., Yeatman, J. D.
2024; 67: 101386
- **Convolutional neural network-based classification of glaucoma using optic radiation tissue properties.** *Communications medicine*
Kruper, J., Richie-Halford, A., Benson, N. C., Caffarra, S., Owen, J., Wu, Y., Egan, C., Lee, A. Y., Lee, C. S., Yeatman, J. D., Rokem, A.
2024; 4 (1): 72
- **The transition from vision to language: Distinct patterns of functional connectivity for subregions of the visual word form area.** *Human brain mapping*
Yablonski, M., Karipidis, I. I., Kubota, E., Yeatman, J. D.
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- **White matter and literacy: A dynamic system in flux.** *Developmental cognitive neuroscience*
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2024; 65: 101341
- **Development of the alpha rhythm is linked to visual white matter pathways and visual detection performance.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Caffarra, S., Kanopka, K., Kruper, J., Richie-Halford, A., Roy, E., Rokem, A., Yeatman, J. D.
2023
- **Rapid Online Assessment of Reading (ROAR): Evaluation of an Online Tool for Screening Reading Skills in a Developmental-Behavioral Pediatrics Clinic.** *Journal of developmental and behavioral pediatrics : JDBP*
Barrington, E., Sarkisian, S. M., Feldman, H. M., Yeatman, J. D.
2023; 44 (9): e604-e610
- **Contributed Session I: Specific and non-linear effects of glaucoma on optic radiation tissue properties.** *Journal of vision*
Kruper, J., Richie-Halford, A., Benson, N., Caffarra, S., Owen, J., Wu, Y., Lee, A., Lee, C., Yeatman, J., Rokem, A.
2023; 23 (15): 73
- **Children with dyslexia show no deficit in exogenous spatial attention but show differences in visual encoding.** *Developmental science*
Ramamurthy, M., White, A. L., Yeatman, J. D.
2023: e13458
- **Understanding the interplay between executive functions and reading development: A challenge for researchers and practitioners alike.** *Mind, brain and education : the official journal of the International Mind, Brain, and Education Society*
Yeatman, J. D.
2023; 17 (4): 334-337
- **Understanding the Interplay Between Executive Functions and Reading Development: A Challenge for Researchers and Practitioners Alike** *MIND BRAIN AND EDUCATION*
Yeatman, J. D.
2023
- **Human white matter myelinates faster in utero than ex utero.** *Proceedings of the National Academy of Sciences of the United States of America*
Grotheer, M., Bloom, D., Kruper, J., Richie-Halford, A., Zika, S., Aguilera Gonzalez, V. A., Yeatman, J. D., Grill-Spector, K., Rokem, A.
2023; 120 (33): e2303491120
- **Children with developmental dyslexia have equivalent audiovisual speech perception performance but their perceptual weights differ.** *Developmental science*
Gijbels, L., Lee, A. K., Yeatman, J. D.
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- **Author Correction: An analysis-ready and quality controlled resource for pediatric brain white-matter research.** *Scientific data*

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- Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A. R., Karipidis, I. I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V. J., Yeatman, et al
2023; 10 (1): 247
- **The transition from vision to language: distinct patterns of functional connectivity for sub-regions of the visual word form area.** *bioRxiv : the preprint server for biology*
Yablonski, M., Karipidis, I. I., Kubota, E., Yeatman, J. D.
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 - **Optic radiations representing different eccentricities age differently.** *Human brain mapping*
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2023
 - **Engaging in word recognition elicits highly specific modulations in visual cortex.** *Current biology : CB*
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 - **Author Correction: An analysis-ready and quality controlled resource for pediatric brain white-matter research.** *Scientific data*
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2022; 9 (1): 709
 - **Publisher Correction: An analysis-ready and quality controlled resource for pediatric brain white-matter research.** *Scientific data*
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 - **An analysis-ready and quality controlled resource for pediatric brain white-matter research.** *Scientific data*
Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A. R., Karipidis, I. I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V. J., Yeatman, et al
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 - **The Effect of COVID on Oral Reading Fluency During the 2020-2021 Academic Year** *AERA OPEN*
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 - **Speed-Accuracy Trade-Off? Not So Fast: Marginal Changes in Speed Have Inconsistent Relationships With Accuracy in Real-World Settings** *JOURNAL OF EDUCATIONAL AND BEHAVIORAL STATISTICS*
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 - **White matter myelination during early infancy is linked to spatial gradients and myelin content at birth.** *Nature communications*
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 - **Can an Online Reading Camp Teach 5-Year-Old Children to Read?** *Frontiers in human neuroscience*
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 - **Development of the visual white matter pathways mediates development of electrophysiological responses in visual cortex.** *Human brain mapping*
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- **Neurobiological underpinnings of rapid white matter plasticity during intensive reading instruction.** *NeuroImage*
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Cieslak, M., Cook, P. A., He, X., Yeh, F., Dhollander, T., Adebimpe, A., Aguirre, G. K., Bassett, D. S., Betzel, R. F., Bourque, J., Cabral, L. M., Davatzikos, C., Detre, et al
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- **Rapid online assessment of reading ability.** *Scientific reports*
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- **Automaticity in the reading circuitry.** *Brain and language*
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- **Audiovisual Speech Processing in Relationship to Phonological and Vocabulary Skills in First Graders.** *Journal of speech, language, and hearing research : JSLHR*
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- **Multidimensional analysis and detection of informative features in human brain white matter.** *PLoS computational biology*
Richie-Halford, A., Yeatman, J., Simon, N., Rokem, A.
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- **Reading: The Confluence of Vision and Language.** *Annual review of vision science*
Yeatman, J. D., White, A. L.
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- **Groupyr: Sparse Group Lasso in Python.** *Journal of open source software*
Richie-Halford, A., Narayan, M., Simon, N., Yeatman, J., Rokem, A.
2021; 6 (58)
- **Diffusional Kurtosis Imaging in the Diffusion Imaging in Python Project.** *Frontiers in human neuroscience*
Henriques, R. N., Correia, M. M., Marrale, M., Huber, E., Kruper, J., Koudoro, S., Yeatman, J. D., Garyfallidis, E., Rokem, A.
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- **Evaluating the Reliability of Human Brain White Matter Tractometry.** *Aperture neuro*
Kruper, J., Yeatman, J. D., Richie-Halford, A., Bloom, D., Grotheer, M., Caffarra, S., Kiar, G., Karipidis, I. I., Roy, E., Chandio, B. Q., Garyfallidis, E., Rokem, A.
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- **White matter fascicles and cortical microstructure predict reading-related responses in human ventral temporal cortex.** *NeuroImage*
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2020: 117669
- **Bridging sensory and language theories of dyslexia: towards a multifactorial model.** *Developmental science*
O'Brien, G., Yeatman, J.
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- **Context effects on phoneme categorization in children with dyslexia.** *The Journal of the Acoustical Society of America*
O'Brien, G. E., Gijbels, L., Yeatman, J. D.
2020; 148 (4): 2209
- **Controlling for Participants' Viewing Distance in Large-Scale, Psychophysical Online Experiments Using a Virtual Chinrest.** *Scientific reports*
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- **Evaluating arcuate fasciculus laterality measurements across dataset and tractography pipelines** *HUMAN BRAIN MAPPING*
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 - **The link between reading ability and visual spatial attention across development.** *Cortex; a journal devoted to the study of the nervous system and behavior*
White, A. L., Boynton, G. M., Yeatman, J. D.
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 - **Intensive Summer Intervention Drives Linear Growth of Reading Skill in Struggling Readers** *FRONTIERS IN PSYCHOLOGY*
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 - **Intensive Summer Intervention Drives Linear Growth of Reading Skill in Struggling Readers.** *Frontiers in psychology*
Donnelly, P. M., Huber, E., Yeatman, J. D.
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 - **You Can't Recognize Two Words Simultaneously.** *Trends in cognitive sciences*
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 - **Categorical phoneme labeling in children with dyslexia does not depend on stimulus duration** *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA*
O'Brien, G. E., McCloy, D. R., Yeatman, J. D.
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 - **Parallel spatial channels converge at a bottleneck in anterior word-selective cortex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
White, A. L., Palmer, J., Boynton, G. M., Yeatman, J. D.
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 - **Combining Citizen Science and Deep Learning to Amplify Expertise in Neuroimaging** *FRONTIERS IN NEUROINFORMATICS*
Keshavan, A., Yeatman, J. D., Rokem, A.
2019; 13: 29
 - **Applying microstructural models to understand the role of white matter in cognitive development**
Huber, E., Henriques, R., Owen, J. P., Rokem, A., Yeatman, J. D.
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 - **Word selectivity in high-level visual cortex and reading skill**
Kubota, E. C., Joo, S., Huber, E., Yeatman, J. D.
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 - **Reading ability and phoneme categorization** *SCIENTIFIC REPORTS*
O'Brien, G. E., McCloy, D. R., Kubota, E. C., Yeatman, J. D.
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 - **Evaluating g-ratio weighted changes in the corpus callosum as a function of age and sex**
Berman, S., West, K. L., Does, M. D., Yeatman, J. D., Mezer, A. A.
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 - **Tractography optimization using quantitative T1 mapping in the human optic radiation** *NEUROIMAGE*
Schurr, R., Duan, Y., Norcia, A. M., Ogawa, S., Yeatman, J. D., Mezer, A. A.
2018; 181: 645–58
 - **Rapid and widespread white matter plasticity during an intensive reading intervention** *NATURE COMMUNICATIONS*
Huber, E., Donnelly, P. M., Rokem, A., Yeatman, J. D.
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- **Optimizing text for an individual's visual system: The contribution of visual crowding to reading difficulties** *CORTEX*
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- **A browser-based tool for visualization and analysis of diffusion MRI data** *NATURE COMMUNICATIONS*
Yeatman, J. D., Richie-Halford, A., Smith, J. K., Keshavan, A., Rokem, A.
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- **The challenge of mapping the human connectome based on diffusion tractography** *NATURE COMMUNICATIONS*
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- **The causal relationship between dyslexia and motion perception reconsidered** *SCIENTIFIC REPORTS*
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2017; 7: 4185
- **Bottom-up and top-down computations in word-and face-selective cortex** *ELIFE*
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- **The corticospinal tract profile in amyotrophic lateral sclerosis** *HUMAN BRAIN MAPPING*
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- **A fully computable model of stimulus-driven and top-down effects in high-level visual cortex**
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- **ABNORMAL WHITE MATTER PROPERTIES IN ADOLESCENT GIRLS WITH ANOREXIA NERVOSA**
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- **The posterior arcuate fasciculus and the vertical occipital fasciculus.** *Cortex; a journal devoted to the study of the nervous system and behavior*
Weiner, K. S., Yeatman, J. D., Wandell, B. A.
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- **Temporal Tuning of Word- and Face-selective Cortex.** *Journal of cognitive neuroscience*
Yeatman, J. D., Norcia, A. M.
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- **The Structural Properties of Major White Matter Tracts in Strabismic Amblyopia.** *Investigative ophthalmology & visual science*
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- **Abnormal white matter properties in adolescent girls with anorexia nervosa.** *NeuroImage. Clinical*
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- **The vertical occipital fasciculus: A century of controversy resolved by in vivo measurements** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Speed discrimination predicts word but not pseudo-word reading rate in adults and children** *BRAIN AND LANGUAGE*
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Ogawa, S., Takemura, H., Horiguchi, H., Terao, M., Haji, T., Pestilli, F., Yeatman, J. D., Tsuneoka, H., Wandell, B. A., Masuda, Y.
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- **Lifespan maturation and degeneration of human brain white matter.** *Nature communications*
Yeatman, J. D., Wandell, B. A., Mezer, A. A.
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- **Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging** *NATURE MEDICINE*
Mezer, A., Yeatman, J. D., Stikov, N., Kay, K. N., Cho, N., Dougherty, R. F., Perry, M. L., Parvizi, J., Hua, L. H., Butts-Pauly, K., Wandell, B. A.
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- **Developmental Changes within White Matter Tracts of Healthy Children Age 9 to 16 Years Old**
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Durand, V. N., Loe, I. M., Yeatman, J. D., Feldman, H. M.
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Yeatman, J. D., Feldman, H. M.
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Yeatman, J. D., Dougherty, R. F., Ben-Shachar, M., Wandell, B. A.
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