Emily Kubota

PhD Candidate at Stanford University (website)
450 Jane Stanford Way, Office 424, Stanford, CA 94305

ACADEMIC BACKGROUND	*Ph.D. Student* Stanford University, Stanford, CA • Advisor: Dr. Kalanit Grill-Spector	2019-present

B.A. Cognitive Science — 2017
Pomona College, Claremont, CA
- Advisor: Dr. Deborah Burke

EMPLOYMENT HISTORY

PhD Researcher — 2019 - Present
Stanford University, Stanford, CA
- Studies the development of the human visual system using functional and diffusion magnetic resonance imaging
- Contributes to open source software

MRI/Data Science Intern — Summer 2023
Octave Bioscience, Menlo Park, CA
- Built neuroimaging pipelines for processing patient data in order to save manual intervention time
- Conducted product interviews and implemented feedback to make product more intuitive for patients and providers
- Designed analysis pipelines for clinical insights in order to identify potential areas of growth

Lab Manager — 2017 - 2019
Brain Development and Education Lab
University of Washington, Seattle, WA
- Designed behavioral and functional magnetic resonance imaging experiments to better understand the neural underpinnings of developmental dyslexia
- Coordinated with participant families, neuroimaging facilities, and educators to conduct two large scale reading intervention studies
- Managed recruitment, data storage, and analysis pipelines for participant interactions

AWARDS

- Honorable Mention for the Sammy Kuo Award for best paper in Neuroscience for "White matter connections of high-level visual areas predict cytoarchitecture better than category-selectivity in childhood, but not adulthood". October, 2022.
- National Science Foundation Graduate Fellowship (NSF GRFP). 2020-present.
- Stanford Mind, Brain, Computation, and Technology Trainee. 2020-2022.
- EDGE: Enhancing Diversity in Graduate Education Doctoral Fellowship, Stanford University. September, 2019.
- University of Washington Institute for Neuroengineering (UWIN) Post-Bac Fellowship. "Task Difficulty in Ventral Temporal Cortex". Yeatman Lab, University of Washington. Fall, 2017.

TEACHING

- Introduction to Perception   Fall 2022
- Introduction to Statistics   Winter 2021
- Learning and Memory   Fall 2021
- Psych One   Fall 2020, Summer 2021

LEADERSHIP

- Research supervisor   Winter 2022 - present
  Oversees two undergraduate research assistants on independent research projects
- Paths2Phd Organizer   Fall 2022
  Organized 6th annual Paths2PhD event which demystifies the graduate admissions process for over 600 prospective applicants. Secured funding, organized panelists, and coordinated volunteers.
- Friday Seminar Organizer   2021-2022
  Organized seminar series to facilitate discussion on new research and methods in cognitive psychology and neuroscience
- Admissions representative   December 2021
  Read applications for admission to the Stanford Psychology Graduate Program

JOURNAL ARTICLES

5. Yablonski, M., Karipidis, I.I., **Kubota, E.**, and Yeatman, J.D. (2023). The transition from vision to language: distinct patterns of functional connectivity for sub-regions of the visual word form area. *bioRxiv*.

4. **Kubota, E.**, Grotheer, M., Finzi, D., Natu, V.S., Gomez, J., and Grill-Spector, K. (2023). White matter connections of high-level visual areas predict cytoarchitecture better than category-selectivity. *Cerebral Cortex*.

3. Grotheer, M., **Kubota, E.**, and Grill-Spector, K. (2021). Establishing the functional relevancy of white matter connections in the visual system and beyond. *Brain Structure and Function.*

2. **Kubota, E. C.***, Joo, S. J.*, Huber, E. and Yeatman, J. D. (2019). Word selectivity in high-level visual cortex and reading skill. *Dev. Cogn. Neurosci.* *co-first authorship

1. O'Brien, G. E., McCloy, D. R., **Kubota, E. C.**, and Yeatman, J. D. (2018). Reading ability and phoneme categorization. *Scientific Reports.*

CONFERENCE CONTRIBUTIONS

12. Caffarra, S., Karipidis, I.I., Kruper, J., **Kubota, E.**, Richie-Halford, A., Takada, M., Rokem, A. and Yeatman, J.D. Assessing white matter plasticity in a randomized control trial of reading training in preschoolers. Poster presentation at *Flux Society*, September 2023.

11. Meisler, S., **Kubota, E.**, Grotheer, M., Gabrieli, J., and Grill-Spector, K. Multimodal MRI Software for Identifying Functional Sub-Components of White Matter Bundles. Poster presentation at *Organization for Human Brain Mapping*, July 2023.

10. Yablonski, M., Karipidis, I.I., **Kubota, E.**, and Yeatman, J.D. Subregions of the visual word form area show distinct patterns of functional connectivity. Poster presentation at *Cognitive Neuroscience Society*, March 2023.

9. **Kubota, E.**, Grotheer, M., Gomez, J., Natu, V., Finzi, D., Rezai, A.A., Kular, H., Nordt, M., and Grill-Spector, K. White matter of ventral visual areas better predicts cytoarchitecture than category-selectivity. Poster presentation at *Organization for Human Brain Mapping*. June 2022.

8. **Kubota, E.**, Grotheer, M., Gomez, J., Natu, V., Finzi, D., Rezai, A.A., Kular, H., Nordt, M., and Grill-Spector, K. Cytoarchitecture scaffolds connectivity of high-level ventral visual areas in children and adults. Virtual poster presentation at *Society for Neuroscience.* November 2021.

7. Karipidis, I.I., **Kubota, E.**, Caffarra, S., Yablonski, M., and Yeatman, J.D. Short animated movies elicit text-selective neural responses in pre-reading children. Slide Slam Presentation at *Society for the Neurobiology of Language.* October 2021.

6. **Kubota, E.**, Grotheer, M., Gomez, J., Natu, V., Finzi, D., Rezai, A.A., Kular, H., Nordt, M., and Grill-Spector, K. Cytoarchitecture, not function, determines a visual regions' connectivity profile in childhood. Virtual poster presentation at *Society for Neuroscience Global Connectome.* January 2021.

5. **Kubota E.C.**, and Yeatman, J.D. Atypical topography of high-level visual cortex is associated with reading difficulty. Poster presentation at *Vision Science Society*, St. Pete Beach, FL. May 2019.

4. Huber, E., **Kubota, E.C.**, and Yeatman, J.D. Linking occipital callosal white matter to cortical responses and reading skill. Oral presentation at *Vision Science Society*, St. Pete Beach, FL. May 2019.

3. **Kubota, E.C.**, Joo, S.J., Huber, E, and Yeatman, J.D. Selectivity for words in visual cortex predicts reading skill in children. Poster presentation at the *Neural Computation and Engineering Connection*, Seattle, WA. January 2018.

2. **Kubota, E.C.**, Joo, S.J., Huber, E, and Yeatman, J.D. Word Selectivity in high-level visual cortex and reading skill. Poster presentation at *Society for Neuroscience*, San Diego, CA. November 2018.

1. Zhang, H., **Kubota, E.**, Anders, V., Burke, D., Diaz, M. and Kroll, J. The effect of bilingualism on age-related cognitive and language declines. Poster presentation at the *Meeting of the Psychonomic Society*, Boston, MA. November 2016.