Oliver H.M. Lasnick, MS

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Research Interests

My primary research interests are in the neurodevelopmental trajectories of learning disorders in language and reading, and in the analysis of large-scale neuroimaging and behavioral datasets.

Education

2019 – 2024 (planned)	PhD in **Psychological Sciences** University of Connecticut
2019 – 2021	MS in **Psychological Sciences** University of Connecticut
2015 – 2019	BA in **Cognitive Science** Minor in **Computer Science** University of California, Berkeley

Positions Held

August 2019 – Present	**Graduate Student Researcher** brainLENS Laboratory (UConn) Advisor: Fumiko Hoeft, MD PhD
June 2018 – May 2019	**Research Assistant** Language & Cognitive Development Laboratory (UC Berkeley) Supervisor: Mahesh Srinivasan, PhD

Awards, Fellowships, & Grants

2022 – 2024	**F31HD107944-01A1** (PI Lasnick) Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31) *National Institutes of Health* Using genetic similarity quantified by kinship coefficients to investigate familial contributions to reading disorder
2021 – 2022	**NRT-UtB 1735225** (PI Magnuson) National Science Foundation Research Traineeship *National Science Foundation* Science of learning, from neurobiology to real-world application: a problem-based approach (SLAC program)
2019 – 2021	**T32DC017703** (Multi-PIs Eigsti/Myers)

	National Institutes of Health Training Grant *National Institutes of Health* University of Connecticut Cognitive Neuroscience of Communication – Connecticut (CNC-CT): Training in the Cognitive Neuroscience of Communication
2015 – 2019	**UC Berkeley Undergraduate Scholarship**

Research

**Equal author contributions*

[In prep] **Lasnick, O.H.M.**, Kamal, S., Marrouch, N., Low, S, Hoeft, F. Modeling delays in neurodevelopmental maturity of the reading network using support vector regression on functional connectivity data.

Lasnick, O.H.M., Hancock, R., Hoeft, F. (in press). Left-dominance for resting-state temporal low-gamma power in children with impaired word-decoding and without comorbid ADHD. *PLOS One*. Preprint available at https://doi.org/10.1101/2023.09.20.558564.

Lasnick, O.H.M., Hoeft, F. (in press). Sensory temporal sampling in time: an integrated model of the TSF and neural noise hypothesis as an etiological pathway for dyslexia. *Frontiers in human neuroscience*. Preprint available at https://doi.org/10.31234/osf.io/r29gw.

[Preregistration] **Lasnick, O.H.M.** (2023, August 7). Using Genetic Similarity Quantified by Kinship Coefficients to Investigate Familial Contributions to Reading Disorder. OSF Preregistration: https://doi.org/10.17605/OSF.IO/3H6PT.

[Preregistration] Clement-Lam, S. S.-Y.*, **Lasnick, O.***, Mitra, A., Kinnie, B., Lyon, C., Luo, J., Kearns, D., Hoeft, F. (2022, May 30). Event-Related Potential Studies of Reading in Relation to Developmental Dyslexia: A Systematic Review. OSF Preregistration: https://osf.io/dbgc3.

Lasnick, O., Feng, J., Quirion, A., Hart, S.A., Hoeft, F. (2022). The importance of family history in dyslexia. *The Reading League journal, 3*(2), 35-42.

Selected Posters, Talks, & Presentations

[Poster] Clement-Lam, S. S.-Y.*, **Lasnick, O.***, Mitra, A., Kinnie, B., Lyon, C., Luo, J., Kearns, D., Hoeft, F. ERP studies of reading in relation to developmental dyslexia: a systematic review. FLUX: The Society for Developmental Cognitive Neuroscience Conference, September 2023.

[Talk] **Lasnick, O.**, Marrouch, N., Kamal, S., Low, S., Hoeft, F. Growth Charts for Functional Brain Networks in Reading Disorder. Neuromatch Conference, December 2021.

[Poster] Kamal, S., **Lasnick, O.**, Low, S. Growth Charts for Functional Brain Networks in Neurodevelopmental Disorders. American Psychiatric Association (APA) Annual Meeting, April 2020 (*cancelled due to COVID-19*).

Teaching

Teaching Assistant

Spring 2021	PSYC 3503/5171 Course title: Computer Modeling of Cognitive Processes

Instructor

Spring 2022	Ask A Brain Scientist (Outreach course for ages 8-13) Guest lecture: Memory

Workshops

[Attendee] Computational Psychiatry Course (CPC) Zurich, University of Zurich, September 2022.

[Attendee] International Statistical Genetics Workshop, University of Colorado at Boulder, June 2022.

Academic & University Service

Ad hoc reviewer, *Dyslexia*, 2023.

Internship / Career Development Committee, SLAC program (NRT-UtB 1735225). Served during Fall 2021 semester.

Diversity Committee, SLAC program (NRT-UtB 1735225). Served during Fall 2019 semester.

Technical Skills

Programming Languages

- Python
- Java
- C/C++
- Some experience: SQL, Scheme, HTML

Neuroimaging Tools

- MRI/fMRI processing: FreeSurfer, FSL, fMRIPrep, CONN functional connectivity toolbox
- EEG processing: EEGLAB, Automagic, MNE-Python
- Data collection experience: MRI/fMRI, MRS

Statistical Tools

- Software: SPSS, JASP, MATLAB
- R
- Formatting: LaTeX, Markdown