

- LUCY WHITMORE -

• developmental cognitive neuroscientist •
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RESEARCH INTERESTS

Cognitive Development
Computational Modeling
Longitudinal Modeling

EDUCATION

University of California, Berkeley
B.A. Cognitive Science, with program honors
Senior Thesis: Neural Correlates of Hierarchical Reinforcement Learning
Thesis Advisor: Anne Collins, PhD

2015-2019

RESEARCH EXPERIENCE

Developing Brains in Context Lab University of Oregon

Lab Manager

June 2019- Present

- Mentor: Kathryn Mills, PhD
- Data collection, processing, analysis, and dissemination for multiple research projects involving adolescents and adults
- Programmed five cognitive tasks and designed three studies for online data collection
- Conducted ten-wave online study on adolescent social connections during COVID-19
- Designed, collected, and analyzed cognitive behavioral study of entire middle school (300+ students)
- Secondary data analysis of neuroimaging data, including ABCD study
- Manuscript preparation, including conducting literature review
- Supervised and trained research assistants

Computational Cognitive Neuroscience Lab University of California, Berkeley

February 2017-May 2019

Research Assistant

- Mentor: Anne Collins, PhD
 - Data collection (behavioral and saliva samples) for study focusing on reinforcement learning and working memory in children, adolescents, and adults
 - Data collection for behavioral study focusing on hierarchical reinforcement learning in adults
 - Pre-processing of previously collected EEG dataset
 - Supervised and trained research assistants
 - Conducted independent research project to explore neural correlates of hierarchical reinforcement learning using EEG
 - Collected, processed, analyzed, and presented behavioral and EEG data for independent research project
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PUBLICATIONS

Mills, K.L., **Whitmore, L.B.**, Flournoy, J.C., Flannery, J.E., Peake, S.J., Fisher, P.A., Pfeifer, J.H., (in prep) Intrinsic brain connectivity and strategic decision making in adolescents with differing social environmental backgrounds. *In prep.*

van Duijvenvoorde, A.C.K, **Whitmore, L.B.**, Westhoff, B., Mills, K.L. (Under Review). Learning in the developing brain: A methodological perspective. Submitted to NPJ Science of Learning.

CONFERENCE PRESENTATIONS

Whitmore, L.B., van Duijvenvoorde, A., Mills, K.L. (October 2020) Making the most of longitudinal MRI to understand learning, reading, and language development. Society for the Neurobiology of Language, “Capturing developmental brain dynamics: methods from longitudinal language research”. Virtual.

Whitmore, L.B. (August 2018) Examining Generalization and Flexibility in Structure Learning With EEG. Summer Undergraduate Research Fellowship Annual Conference. Berkeley, CA.

POSTERS

Whitmore, L.B., Mills, K.L. (September 2020) Self-reported screen time and risk-taking in the transition into adolescence. Flux Congress 2020. Virtual.

AWARDS & HONORS

Summer Undergraduate Research Fellowship, \$4500	2018
Graphic Packaging International Scholarship, \$1000/year	2015-2019
California Alumni Association Leadership Award, \$2000	2015
Inspire Foundation Scholarship, \$500	2015
Chico Women’s Club Scholarship, \$500	2015

EMPLOYMENT

Lawrence Hall of Science (Amgen Biotech Experience) **July 2016-May 2019**

- Assisted with professional development trainings for Bay Area teachers
- Worked as science/content communicator in exhibit hall
- Prepared materials and reagents for genetic transformation experiments

Cognitive Science Student Association, UC Berkeley **2015-2019**

President, 2018-2019

Vice President 2017-2018

Alumni Coordinator, 2016-2017

- Organized events for Cognitive Science community, including alumni panels, course enrollment nights, and research/industry talks
- Organized annual California Cognitive Science Conference, with an annual attendance of 300 people
- Led meetings and represented student community to faculty and staff

Hoyt Hall, Berkeley Student Cooperative

2017-2019

President, Spring 2018

Secretary, Fall 2018

- Led weekly manager meetings and house council
- Facilitated creation of house policy
- Organized workshops focused on consent, disability justice, and related topics

Classroom Assistant, CalTeach Program

2016

Chabot Elementary, Spring 2016

Berkeley High School, Fall 2016

- Assisted students with classwork and lesson materials
- Created lesson plans
- Led independent lessons

PUBLIC OUTREACH

Living Lab Day, Eugene Science Center

2020

Classroom Outreach, Spencer Butte Middle School

2020

Cognitive Science Student Association at Cal Day

2016-2019 (annual)

Organizing Team of California Cognitive Science Conference

2016-2019 (annual)

Bay Area Science Festival

2015-2018 (annual)

SOCIETY MEMBERSHIP

Flux Society

2020

Cognitive Science Society

2016, 2020

TRAININGS & WORKSHOPS

The Origins of Common Sense in Humans & Machines, CogSci 2020

July 2020

Equity-Centered Design Workshop, hosted by Creative Reaction Lab

July 2020

State Space Grid Workshop

July 2020

Brainhack Global Eugene ***organized**

July 2020

MRI Safety Training, Lewis Center for Neuroimaging

November 2019

SURF Workshops July 2018 (Getting to Know the Literature,

June 2019

Research Tools: Mendeley & LaTeX, Giving a Successful STEM Talk)

July 2018

TECHNICAL SKILLS

Programming Languages: R, Python, Matlab, javascript, html, tidyverse

Programs: Git, Jupyter, Network Canvas, Gorilla.sc, Qualtrics, RedCap, EEGLAB, Zotero,

OSF