

- EDUCATION** | **HARVARD UNIVERSITY**, CAMBRIDGE, MA 2018 -
Ph.D. in Neuroscience
NSF-GRFP Fellow
- RICE UNIVERSITY**, HOUSTON, TX 2014 - 2018
B.A. in Cognitive Sciences with Honors
Minors in Neuroscience, Computational and Applied Mathematics
Distinction in Research and Creative Work
Thesis: Multisensory context warps time perception
- AWARDS & HONORS** | National Science Foundation Graduate Research Fellowship 2018
Phi Beta Kappa National Honor Society 2018
Cognitive Computational Neuroscience student travel award 2017
Barry M. Goldwater Scholarship honorable mention 2017
Computational and Systems Neuroscience (Cosyne) undergraduate travel award 2016
Rice Undergraduate Scholars Program grant (\$3000 in total) 2016 - 2018
- RESEARCH** | **BAYLOR COLLEGE OF MEDICINE**, HOUSTON, TX JAN 2015 – JUN 2018
Advisor: Jeffrey Yau
- o Designing psychophysical experiments and building computational models to understand how flexible perceptual outcomes arise from multisensory cue interactions.
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, CAMBRIDGE, MA JUN 2016 – AUG 2016
CENTER FOR SENSORIMOTOR NEURAL ENGINEERING (CSNE) NSF REU PROGRAM
Advisor: Mehrdad Jazayeri
- o Designed experiments, collected and analyzed data from human subjects performing a time reproduction task to test Bayesian models of memory recall in interval timing.
- JANELIA RESEARCH CAMPUS**, ASHBURN, VA JUN 2017 – AUG 2017
JANELIA UNDERGRADUATE SCHOLARS PROGRAM
Advisor: Joshua Dudman
- o Used population recordings to understand how the motor cortex and striatum select for reward-seeking actions.
- PRESENTATIONS & PAPERS** | **Lai, L.**, Magnotti, JF., Yau, JM. *Multisensory context warps time perception*. Cognitive Computational Neuroscience meeting, New York, NY, conference paper: September 7, 2017.
- Lai, L.**, Dudman, JT. *Neural correlates of action kinematics in the dorsal striatum*. Janelia Undergraduate Scholars symposium, Ashburn, VA, poster: August 3, 2017.
- Lai, L.**, Magnotti, JF., Yau, JM. *Contextual determinants of cue binding or separation in multisensory time perception*. International Multisensory Research Forum annual meeting, Nashville, TN, poster: May 21, 2017.
- Lai, L.**, Yau, JM. *Attractive and repulsive multisensory interactions in time perception*. Society for Neuroscience annual meeting, San Diego, CA, poster: November 14, 2016.
- Lai, L.**, Jazayeri, M. *Characterizing variability in memory recall of time intervals*. Center for Sensorimotor Neural Engineering REU Symposium, Seattle, WA, poster: August 17, 2016.

TEACHING | COLL 158: HOW MUSIC PLAYS THE BRAIN, RICE UNIVERSITY

S 2017, F 2017, S 2018

COURSE INSTRUCTOR

- o Designed and taught a seminar course on the intersection of music and neuroscience. Topics include the neurobiology of music perception and cognition, music therapy, AI and music, etc. Won the 2017 Rice Student-Taught Course Award!

TEACHING ASSISTANT, RICE UNIVERSITY

- o Teaching assistant/grader for the following undergraduate courses:
 1. NEUR/PSYC 362: Cognitive Neuroscience S 2016, S 2017, S 2018
 2. NEUR/CAAM 416: Neural Computation S 2018
 3. NEUR/BIOC 385: Cellular and Molecular Neuroscience F 2016
 4. STAT 310: Probability and Statistics F 2016
 5. PSYC 203: Cognitive Psychology F 2015
- o *Responsibilities include* leading review sessions, creating exam review material, grading exams and problem sets, and holding weekly office hours to assist students in mastery of material.

**SKILLS
& OTHER INFO**

Programming: MATLAB, Python, R

Lab: psychophysics, *In-vivo* acute electrophysiology, mouse behavior

Computational: simulations, model fitting/selection, ML algorithms

Interests: classical piano, violin, poetry, long-distance running, coffee