Haley Keglovits

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EDUCATION

Brown University Providence, RI
Doctor of Philosophy in Cognitive Science *August 2019 - present*

University of California, Berkeley Berkeley, CA
Bachelor of Arts in Computer Science, Bachelor of Arts in Cognitive Science *August 2015 - May 2019*

PUBLICATIONS

Yoo, A. H., **Keglovits, H.**, Collins, A. (2022). The importance of linguistic information in human reinforcement learning. *PsyArXiv Preprint.* https://doi.org/10.31234/osf.io/zkdg2

Badre, D., Bhandari, A., **Keglovits, H.**, & Kikumoto, A. (2021). The dimensionality of neural representations for control. *Current Opinion in Behavioral Sciences*, 38, 20–28. https://doi.org/10.1016/j.cobeha.2020.07.002

Galeano Weber, E. M., **Keglovits, H.**, Fisher, A., & Bunge, S. A. (2020). Insights into visual working memory precision at the feature- and object-level from a hemispheric encoding manipulation. *Quarterly Journal of Experimental Psychology*, 73(11), 1949–1968. https://doi.org/10.1177/1747021820934990

PRESENTATIONS

Keglovits, H., Bhandari, A., Chicklis, E., & Badre, D. (2021). *Evaluating methods for estimating geometry of neural representations.* SfN Global Connectome. Poster, Virtual.

Keglovits, H. & Badre, D. (2021). *Evaluating methods for measuring geometry of neural representations.* CLPS First-Year Project Series. Talk, Brown University.

Keglovits, H. & Collins, A.G.E. (2019). *Effects of stimulus linguistic and visual confusability on learning.* California Cognitive Science Conference. Poster, Berkeley CA.

Keglovits, H. & Collins, A.G.E. (2018). *Computational Modeling of Reinforcement Learning and Working Memory Systems.* Summer Undergraduate Research Fellowship Conference. Talk, Berkeley CA.

RESEARCH

Badre Lab August 2019 – Present
Cognitive Control and Executive Function *sites.brown.edu/badrelab*

- Studying how properties of cognitive control representations affect behavior
- Improving novel method for measuring the dimensionality of neural populations non-invasively with fMRI
- Running neural simulations and human behavioral experiments to test novel hypothesis about cognitive control

Collins Lab October 2016 - August 2019
Computational Cognitive Neuroscience *ccn.berkeley.edu*

- Worked on multi-year project studying how adolescence changes learning
- Collected and analyzed data for self-designed senior thesis
- Proposed and rigorously tested computational models of behavior

Bunge Lab February 2016 - August 2019
Building Blocks of Cognition *bungelab.berkeley.edu*

- Studied how inductive reasoning capabilities differ between brain hemispheres
- Designed, coded, and implemented new task to test working memory of healthy adults and children with TBIs
- Collected and analyzed eyetracking data to use in concert with behavioral data

Teaching & Mentoring

Instructor *Introduction to Programming.* Brown University, Spring 2022. Appointed primary course instructor for departmental introductory programming class, working with a group of 25 students. Oversaw 4 undergraduate teaching assistants in conjunction with other graduate student instructor.

Research Mentor *Badre Lab* Brown University, January 2020 - present. Supervise and train five undergraduate students in research practice, coding, and data analysis. One student was awarded summer grant money (2021) for continuing her work with me, and is pursuing a senior thesis on the project.

Teaching Assistant *Mind, Brain and Behavior: An Interdisciplinary Approach.* Brown University, Summer 2021 and Fall 2021. Supervised 20 students, taught one weekly discussion section. Fall 2021 taught one invited lecture to entire class (300 students).

Teaching Assistant *Happiness in Philosophy and Psychology.* Brown University, Spring 2021. Supervised 40 students, taught two weekly discussion sections.

Research Mentor *Bunge Lab* UC Berkeley, September 2018 - May 2019. Hired, trained, and supervised a team of five undergraduate researchers to assist in data collection on a project using eyetracking. Led weekly coding classes for the group so they could learn data analysis.

Service & Leadership

Diversity and Inclusion Liaison *CLPS Department* Brown University, 2021-20202 Academic Year. Elected as departmental representative to bring diversity and inclusion related issues to faculty, and implement departmental trainings and workshops as necessary.

Graduate Representative *CLPS Department* Brown University, 2020-20201 Academic Year. Elected as one of two departmental representatives of graduate student body. Serve to bring student ideas and concerns to faculty and plan events like town-hall meetings, socials, and professional development seminars.

Committee Member *Diversity and Inclusion Action Plan, CLPS Department* Brown University, 2020-Present. Work on Curriculum Subcommittee to assess and improve the curriculum of CLPS Department courses through planning reading groups, syllabi surveys, and developing new courses.

President *Berkeley Forum* UC Berkeley, 2017-2018 Academic Year. Managed team of 50 students to host speaker events for the Bay Area Community. Oversaw $15k budget, branding, member recruitment, and lineup design. Prior Roles: Head Moderator, Events Manager, Programming Team (2015 - 2017).

Honors and Funding

Interdisciplinary Training in Computational, Cognitive, and Systems Neuroscience T32 Grant, 2021-2024. Brown University.

Graduate School Summer Fellowship, 2020. Brown University.

Betty R.H. and James M. Pickett Fellowship Fund for Psychology, 2019-2020. Brown University.

Highest Honors in Cognitive Science, 2019. University of California, Berkeley.

Summer Undergraduate Research Fellowship, 2018. University of California, Berkeley.

Dean's List, 2015 - 2016. University of California, Berkeley.

Academic Honor Roll, 2015 - 2017. University of California, Berkeley.