

SARA F. POPHAM

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207 University Hall ❖ Berkeley, CA 94720

EDUCATION AND WORK EXPERIENCE

University of California, Berkeley

08/2015 – XX/2021

PhD in Neuroscience

Advisor: Jack Gallant

Thesis Title: *Investigating Multimodal Semantic Representations in the Human Brain*

Massachusetts Institute of Technology

06/2013 – 05/2015

Lab Manager – Department of Brain and Cognitive Sciences

Advisor: Josh McDermott

Johns Hopkins University

08/2010 – 05/2013

B.A. Psychology & B.A. Applied Mathematics and Statistics

Advisors: Jonathan Flombaum & John Wierman

AWARDS

William Orr Dingwall Neurolinguistics Dissertation Fellowship

08/2019 – 08/2020

- Nationwide competition; awarded to 2-6 students per year; \$30,000 for one year of study

NSF Graduate Research Fellowship Honorable Mention

04/2016

G. Stanley Hall Prize

05/2013

- Johns Hopkins University: Department of Psychological and Brain Sciences
- Awarded to one graduating student per year for outstanding research and academic achievements

PUBLICATIONS

Popham SF, Huth AG, Bilenko NY, Deniz F, Gao JS, Nunez-Elizalde AO, & Gallant JL. Visual and linguistic semantic representations are aligned at the border of human visual cortex. *In Review*.

Popham SF, Boebinger D, Ellis DPW, Kawahara H, & McDermott JH (2018). Inharmonic speech reveals the role of harmonicity in the cocktail party problem. *Nature Communications*, 9(1), 2122. <https://doi.org/10.1038/s41467-018-04551-8>

BOOK CHAPTERS

Gallant JL & **Popham SF**. Semantic representation in the human brain under rich, naturalistic conditions. *The Cognitive Neurosciences (Sixth Edition)*. MIT Press. Editors: Gazzaniga, Mangun, & Poeppel. *In Press*.

CONFERENCE PRESENTATIONS

Popham SF, Huth AG, Bilenko NY, & Gallant JL. Visual and linguistic semantic representations are aligned at the boundary of human visual cortex. Computational and Systems Neuroscience (CoSyNe) Annual Meeting. Denver, CO, USA. 2018.

Huth AG, **Popham SF**, Bilenko NY, & Gallant JL. The Visual-Linguistic Interface: Anatomically Aligned Semantic Representations of Vision and Language. Annual Meeting of the Society for Neuroscience. San Diego, CA, USA. 2016.

Huth AG, **Popham SF**, Bilenko NY, & Gallant JL. Semantic Representations of Language and Vision Revealed by fMRI with Natural Stimuli. Collaborative Research in Computational Neuroscience Conference. Paris, France. 2016.

McDermott JH, **Popham SF** & Boebinger D. The Role of Harmonic Spectral Structure in the Cocktail Party Problem. Meeting of the Acoustical Society of America. Jacksonville, FL, USA. 2016.

Popham SF & McDermott JH. Sound Segregation Cues in Natural Speech. Annual Meeting of the Association for Research in Otolaryngology. Baltimore, MD, USA. 2015.

McDermott JH, **Popham SF**, Schemitsch M, Ellis DPW, & Kawahara H. The Role of Harmonic Spectral Structure in Sound Segregation. Annual Meeting of the Association for Research in Otolaryngology. San Diego, CA, USA. 2014.

TEACHING EXPERIENCE

University of California, Berkeley 01/2018 – 05/2018
 Graduate Program in Neuroscience
 Applied Statistics for Neuroscience (Neuro 299)
Graduate Student Instructor

University of California, Berkeley 08/2016 – 12/2016
 Department of Electrical Engineering and Computer Science
 Discrete Mathematics and Probability Theory (CS 70)
Graduate Student Instructor

Johns Hopkins University 01/2013 – 05/2013
 Department of Applied Mathematics and Statistics
 Discrete Mathematics (550.171)
Teaching Assistant

OUTREACH & SERVICE

Admissions Committee for the Helen Wills Neuroscience Institute 08/2018 – 04/2019

- One graduate student is selected to participate in the admissions process each year
- Read applications for Cognitive and Computational Neuroscience subdivisions

Organizing Committee for "Neuroscience Boot Camp" 05/2016 – 08/2016

- All incoming graduate students spend 10 days prior to the start of classes attending talks and participating in laboratory exercises
- Contact faculty and coordinate times for talks and labs

Bay Area Scientists in Schools (BASIS) Volunteer 10/2015 – present

- Teach monthly lessons at public elementary schools in the East Bay
- More information here: <https://www.crsceience.org/volunteers/aboutbasis/>
- Member of the Campus Steering Committee 05/2016 – present
 - One representative from each department or graduate program
 - Quarterly meetings to plan campus-wide events and improve departmental recruitment