

## SARA F. POPHAM

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Berkeley, CA

### EDUCATION AND WORK EXPERIENCE

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- University of California, Berkeley** 08/2015 – 08/2021  
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. Applied Mathematics and Statistics & B.A. Psychology (Double Major)  
Advisors: John Wierman & Jonathan Flombaum

### AWARDS

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- 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

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- 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

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- 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

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- 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

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**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

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**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