

Patrick Sherlock

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Education

2019 - 2023 University of Southern California
B.S. Neuroscience, Minor Linguistics

Research Positions

2025 - present Technical Associate, Massachusetts Institute of Technology
Advisor: Dr. Evelina Fedorenko

2023 - 2025 Project Coordinator, Vanderbilt University
Advisor: Dr. Sarah Brown-Schmidt

2022 - 2023 Research Assistant, University of Southern California
Advisor: Dr. Zuzanna Fuchs

2020 - 2023 Research Assistant, University of Southern California
Advisors: Dr. Kirsten Lynch, Dr. Jeiran Choupan

Publications

2023 Lan, H., Lynch, K., Custer, R., Shih, N., **Sherlock, P.**, Sepehrband, F., Toga, A., & Choupan, J. (2023). Weakly supervised perivascular spaces segmentation with salient guidance of Frangi filter. *Magnetic Resonance in Medicine*, 89, 6, 2419-2431.

Manuscripts

2025 Casto, C., Poliak, M., Tuckute, G., Small, H., **Sherlock, P.**, Wolna, A., Lipkin, B., D'Mello, A. M., & Fedorenko, E. *Accepted*. The cerebellar components of the human language network. *Neuron*.

2025 Lord, K., Kekes-Szabo, S., **Sherlock, P.**, Duff, M.C., & Brown-Schmidt, S. *Under revision*. Moderate-severe traumatic brain injury disrupts core mechanisms of online language processing and use. *Cortex*.

2025 **Sherlock, P.**, Duff, M.C., & Brown-Schmidt, S. *In preparation*. Moderate-severe traumatic brain injury disrupts online grammatical processing.

2025 **Sherlock, P.**, Duff, M.C., & Brown-Schmidt, S. *In preparation*. Moderate-severe traumatic brain injury disrupts online referential Processing.

2025 Lord, K., Zhou, Y., **Sherlock, P.**, & Brown-Schmidt, S. *In preparation*. Different demands, different memory: Conversational role and memory for the contexts of language use.

Conference Abstracts

2025 **Sherlock, P.**, Duff, M.C., & Brown-Schmidt, S. The impact of TBI on the use of referential context in syntactic ambiguity resolution. *Human Sentence Processing*. College Park, MD, USA. 27-29, March 2025. [Poster]

2024 Volante, C., Diachek, E., **Sherlock, P.**, & Brown-Schmidt, S. Referential modification and memory for object features. *Human Sentence Processing*. Ann Arbor, MI, USA. 16-18, May 2024. [Poster]

2022 **Sherlock, P.**, Lynch, K., Choupan, J., & Toga, A. Anterior and middle cerebral artery caliber and PVS size in young adults. *Organization for Human Brain Mapping*. Glasgow, Scotland, UK. 19-23, June 2022. [Poster]

Guest Lectures

2024 Applying to Postbac Research Positions
Summer Professional Development Series for Undergraduate Trainees
Facilitator: Dr. Whitney Barnett, Vanderbilt University

2024 Language and Conversational Memory in Law and Policy
PSY-PC 7500: Advanced Topical Seminar: Cognition in the Real World
Instructor: Dr. Lisa Fazio, Vanderbilt University

Additional Training

2022 NASSLLI
Volunteer and attendee, University of Southern California

Outreach

2025 What it Means to be Human
MIT Splash, Cambridge, MA

2024 The Science of Language and Bilingualism
Glendale Spanish Immersion Elementary School, Oak Hill, TN

Awards

2025

McGovern Institute for Brain Research SPOT Award

Technical Proficiency

Coding	Python (PsychoPy, PyLink, Pandas), Bash, Git, SLURM, R, MATLAB
Methodologies	fMRI, Eye-Tracking
Data-Collection	Gorilla, Prolific, Qualtrics, REDCap, SONA, PCIbex
Applications	Jupyter, Praat, Microsoft Office Suite, Google Workspaces, Gephi

Natural Languages

English	Native
Spanish	Full working proficiency
Portuguese	Limited working proficiency
Italian	Basic