

Patrick Sherlock

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Education

2019 - 2023	University of Southern California B.S. Neuroscience, Minor Linguistics
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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. <i>Magnetic Resonance in Medicine</i> , 89, 6, 2419-2431.
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Manuscripts

2025	Casto, C., Poliak, M., Tuckute, G., Small, H., Sherlock, P. , Wolna, A., Lipkin, B., D'Mello, A. M., & Fedorenko, E. <i>Accepted</i> . The cerebellar components of the human language network. <i>Neuron</i> .
2025	Lord, K., Kekes-Szabo, S., Sherlock, P. , Duff, M.C., & Brown-Schmidt, S. <i>Under revision</i> . Moderate-severe traumatic brain injury disrupts core mechanisms of online language processing and use. <i>Cortex</i> .
2025	Sherlock, P. , Duff, M.C., & Brown-Schmidt, S. <i>In preparation</i> . Moderate-severe traumatic brain injury disrupts online grammatical processing.
2025	Sherlock, P. , Duff, M.C., & Brown-Schmidt, S. <i>In preparation</i> . 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.
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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., Diacheck, 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]
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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
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Additional Training

- 2022 NASSLLI
Volunteer and attendee, University of Southern California
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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
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Awards

2025	McGovern Institute for Brain Research SPOT Award
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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