

# 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

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## 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.

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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. *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.

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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., 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]

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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

2026 Cambridge School Volunteers NetPal  
Cambridge Street Upper School, Cambridge, MA

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

2024 “The Science of Language and Bilingualism” Booth  
*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

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### Natural Languages

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