

Tarun Sepuri

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EDUCATION

Case Western Reserve University

Bachelor of Arts in Cognitive Science, Bachelor of Science in Computer Science

GPA: 3.9/4.0 | *Magna cum laude*

Courses: Cognition and Computation, Cognitive Neuroscience, Cognitive Linguistics 1 and 2, Machine Learning, Natural Language Processing, Ethics of AI, Second Language Acquisition, Software Craftsmanship

Cleveland, OH

Aug 2019 – May 2023

RESEARCH EXPERIENCE

Lab Manager

University of California, San Diego

Advisor: Prof. Bria Long

Sep 2024 – Present

Department of Psychology

Visiting Undergraduate Research Fellow

Harvard University

Advisor: Prof. Elika Bergelson

Jun 2024 – Aug 2024

Department of Psychology

Research Assistant

Case Western Reserve University

Advisor: Prof. Soumya Ray

May 2021 – May 2023

Department of Computer Science

CONFERENCE PROCEEDINGS

Sepuri, T., Zettersten, M., & Long, B. (2025). Examining the precision of infants' visual concepts by leveraging vision-language models and automated gaze coding. *Proceedings of the 2025 Conference on Cognitive Computational Neuroscience*.

Yang, J., **Sepuri, T.**, Tan, A. W. M., Frank, M. C., & Long, B. (2025). Quantifying infants' everyday experiences with objects in a large corpus of egocentric videos. *Proceedings of the 2025 Conference on Cognitive Computational Neuroscience*.

Haskins, A. J., **Sepuri, T.**, & Long, B. (2025). Knowledge differences affect gaze behavior during naturalistic object exploration. *Proceedings of the 2025 Conference on Cognitive Computational Neuroscience*.

Nelson, N., Kas, I., **Sepuri, T.**, et al. (2025). The Effects of Artificial Intelligence Assistants on the Acquisition of Laparoscopic Surgical Spatial Navigation Skills. *2025 International Symposium on Medical Robotics (ISMR)*, 136–142.

WORKSHOP PAPERS

Sepuri, T.*, Aw, K. L.* , Tan, A. W. M.* , Sparks, R. Z., Marchman, V.A., Frank, M.C., & Long, B. (2025). Characterizing young children's everyday activities using video question-answering models. *Data on the Brain & Mind Workshop, Advances in Neural Information Processing Systems 2025*.

PREPRINTS

Tan, A. W. M*, Yang, J*, **Sepuri, T.**, Aw, K. L., Sparks, R. Z., Yin, Z., Marchman, V.A., Frank, M.C., & Long, B. (2025). Assessing the alignment between infants' visual and linguistic experience using vision-language models.

* indicates equal contribution

IN PREPARATION

Nencheva, M. L., **Sepuri, T.**, Long, B., & Frank, M.C. (in prep). Linguistic emotion information in everyday activity contexts.

Berber, I., Kas, I., **Sepuri, T.**, et al. (in prep). GABLE: Lightweight Infrastructure for Longitudinal Experiments Using Google Apps Script.

INVITED TALKS

Characterizing children's activities <i>Language and Cognition Lab, Stanford University</i>	Oct 2025
Automatic annotation of objects in infant egocentric videos <i>BabyView-Korea International Workshop</i>	May 2025

TEACHING EXPERIENCE

Teaching Assistant <i>Case Western Reserve University</i>	Aug 2021 – May 2023
	<i>Cleveland, OH</i>
• Led 6 weekly discussion sections in total for Software Craftsmanship for Fall 2021, Fall 2022 and Spring 2023	
• Mentored and guided 30 students to write better code and graded 200 programming assignments	
• Held weekly office hours and designed 3 assignments highlighting language-free thinking and defensive programming	

OTHER EXPERIENCE

Software Engineer <i>Oak Hill Advisors</i>	Jun 2023 – Jun 2024
	<i>New York, NY</i>
Software Development Engineer Intern <i>Amazon Inc.</i>	May 2022 – Aug 2022
	<i>Seattle, WA</i>
Software Application Developer <i>Eradani Inc.</i>	Aug 2020 – May 2022
	<i>Remote</i>

UNIVERSITY ACTIVITIES

President <i>Association for Computing Machinery, Case Western Reserve University</i>	Aug 2021 – May 2023
Director of Design <i>The Observer, Case Western Reserve University</i>	Aug 2022 – May 2023

SKILLS

Programming Languages: Python, R, TypeScript, JavaScript, Java, SQL, HTML/CSS, MATLAB
Frameworks: tidyverse, PyTorch, pandas, vLLM, Vue.js, Node.js
Languages: English, Telugu

HONORS AND AWARDS

- ACM Outgoing Student Award, Case Western Reserve University (May 2023)
- Junior Senior Scholarship, Case Alumni Association, Case Western Reserve University (Aug 2021)
- Outstanding Outgoing Student, The Hyderabad Public School (May 2019)

REFERENCES

References available upon request.