

# Tarun Sepuri

tarunsepuri@gmail.com | 571-577-0585

www.tarunsepuri.com | linkedin.com/in/tarun-sepuri | github.com/tsepuri

## EDUCATION

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### Case Western Reserve University

Cleveland, OH

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

Aug 2019 – May 2023

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

## RESEARCH EXPERIENCE

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### Lab Manager

Sep 2024 – Present

University of California, San Diego

Department of Psychology

Advisor: Prof. Bria Long

### Visiting Undergraduate Research Fellow

Jun 2024 – Aug 2024

Harvard University

Department of Psychology

Advisor: Prof. Erika Bergelson

### Research Assistant

May 2021 – May 2023

Case Western Reserve University

Department of Computer Science

Advisor: Prof. Soumya Ray

## CONFERENCE PROCEEDINGS

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**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

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**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

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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

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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

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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

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<b>Teaching Assistant</b> <i>Case Western Reserve University</i>	Aug 2021 – May 2023 <i>Cleveland, OH</i>
<ul style="list-style-type: none"><li>• Led 6 weekly discussion sections in total for Software Craftsmanship for Fall 2021, Fall 2022 and Spring 2023</li><li>• Mentored and guided 30 students to write better code and graded 200 programming assignments</li><li>• Held weekly office hours and designed 3 assignments highlighting language-free thinking and defensive programming</li></ul>	

## OTHER EXPERIENCE

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

## UNIVERSITY ACTIVITIES

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

## SKILLS

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**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

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- 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

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References available upon request.