Tarun Sepuri

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Education

Stanford University — Stanford, CA
Ph.D. in Psychology — *Sep 2026 – Present*
Advisor: Prof. Michael C. Frank

Case Western Reserve University — Cleveland, OH
Bachelor of Science in Computer Science, Secondary Major in Cognitive Science — *Aug 2019 – May 2023*
GPA: 3.9/4.0 | *magna cum laude*

Research Experience

Lab Manager — Sep 2024 – Aug 2026
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. Elika Bergelson

Research Assistant — May 2021 – May 2023
Case Western Reserve University — *Department of Computer Science*
Advisor: Prof. Soumya Ray

Peer-reviewed Journal Articles

Berber, I., Kas, I., **Sepuri, T.**, Macnamara, B.N., Çavuşoğlu, M.C., Wilson-Delfosse, A.L., Krupinski, E.A., Smith, P.J., & Ray, S. (2026). Introducing GABLE: Lightweight Infrastructure for Longitudinal Experiments Using Google Apps Script. *Behavioral Research Methods.*

Peer-reviewed Conference and Workshop Proceedings

Tan, A. W. M., Aw, K., **Sepuri, T.**, Sparks, R., Yang, J., Marchman, V., Long, B. and Frank, M. C. (2026). Predicting children's early word learning using egocentric videos of their learning environments. *Annual Meeting of the Cognitive Science Society.*

Yang, J., **Sepuri, T.**, Tan, A. W. M., Aw, K. L., Frank, M. C., & Long, B. (2026). Variability in Young Children's Everyday Visual Experiences of Object Categories. *Cognitive Computational Neuroscience.*

Du, H., **Sepuri, T.**, Maheshwari, U., Zhu, R., Arieda, J. O. & Long, B. (2026). Structure and diversity in children's line drawings of object categories across four international contexts. *Cognitive Computational Neuroscience.*

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. *Proceedings of the Data on the Brain & Mind Workshop, Advances in Neural Information Processing Systems 2025.*

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

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. *Cognitive Computational Neuroscience.*

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

Nelson, N., Kas, I., **Sepuri, T.**, Smith, P.J., Wilson-Delfosse, A.L., Krupinski, E.A., Macnamara, B.N., Ray, S. & Çavuşoğlu, M.C. (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.

* indicates equal contribution

Under Review

Yang, J., **Sepuri, T.**, Tan, A., Aw, K. L., W. M., Frank, M. C., & Long, B. (revise & resubmit). Characterizing the visual representation of objects from the child's view. *Nature Human Behavior.*

Zhu, R., Arieda, J.O., Kilonzo, T.N., Watson, Z.D., **Sepuri, T.**, Long, B., Fan, J.E., & Frank, M.C. (revise & resubmit). Developmental changes in children's production of line drawings in a picture-sparse environment: Evidence from Kisumu, Kenya. *Developmental Science.*

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.

Conference Presentations

Sepuri, T., Long, B., & Zettersten, M. (2026). Investigating the role of similarity in word recognition using a large-scale developmental eyetracking database. *Boston University Conference on Language Development 51.* Poster to be presented.

Zhu, R., Arieda, J.O., Kilonzo, T.N., Watson, Z.D., **Sepuri, T.**, Long, B., Fan, J.E., & Frank, M.C. (2026). Developmental changes in children's production of line drawings in a drawing-sparse environment: Evidence from Kisumu, Kenya. *Annual Meeting of the Cognitive Science Society.* Poster.

Nencheva, M. L., **Sepuri, T.**, Long, B. & Frank, M.C. (2026). Linguistic emotion information in everyday activity contexts. *International Congress Of Infant Studies.* Talk.

Sepuri, T., Zettersten, M., & Long, B. (2026). Examining the precision of infants' visual concepts by leveraging vision-language models and automated gaze coding. *Biennial Meeting of the Cognitive Development Society.* Poster.

Sahrling, N., Du, H., **Sepuri, T.**, Haskins, A.J., & Long, B. (2026). Relating Changes in Children's Line Drawings and Descriptions Across Development. *Biennial Meeting of the Cognitive Development Society.* Poster.

Du, H., **Sepuri, T.**, Zettersten, M., & Long, B. (2026). Children's Visual Concept Integration Via Line Drawings of Hybrid Categories. *Biennial Meeting of the Cognitive Development Society.* Poster.

Zhu, R., Arieda, J.O., Kilonzo, T.N., Watson, Z.D., **Sepuri, T.**, Long, B., Fan, J.E., & Frank, M.C. (2026). Developmental changes in children's production of line drawings in a drawing-sparse environment: Evidence from Kisumu, Kenya. *Biennial Meeting of the Cognitive Development Society.* Poster.

Yang, J., **Sepuri, T.**, Tan, A., Aw, K. L., W. M., Frank, M. C., & Long, B. (2026). Characterizing the inputs to infants' object category representations. *Annual Meeting of the Vision Sciences Society.* Talk.

Invited Talks

Characterizing children's activities | *Egocentric Video Workshop, Stanford University* — Feb 2026
Characterizing children's activities | *Language and Cognition Lab Meeting, Stanford University* — Nov 2025
Automatic annotation of objects in infant egocentric videos | *BabyView-Korea International Workshop* — May 2025

Teaching Experience

Teaching Assistant — Aug 2021 – May 2023
Case Western Reserve University — *Cleveland, OH*

- 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

Activities

Volunteer | *Paths to Ph.D., Stanford University* — Oct 2026
Kid Science Coordinator | *Kid Science, University of California, San Diego* — Sep 2025 – Jul 2026
President | *Association for Computing Machinery, Case Western Reserve University* — Aug 2021 – May 2023
Director of Design | *The Observer, Case Western Reserve University* — Aug 2022 – May 2023

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)
- IDL Chemical Gold Medal for the Outstanding Outgoing Student, The Hyderabad Public School (May 2019)

Work Experience

Software Engineer — Jun 2023 – Jun 2024
Oak Hill Advisors — *New York, NY*

Software Development Engineer Intern — May 2022 – Aug 2022
Amazon Inc. — *Seattle, WA*

Software Application Developer — Aug 2020 – May 2022
Eradani Inc. — *Remote*

Office Assistant — Aug 2019 – May 2021
Case Western Reserve University — *Cleveland, OH*

References

References available upon request.