

Samah Abdelrahim

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EDUCATION

- **Stanford University — Ph.D.**
Ph.D. candidate in developmental psychology (PI: Michael C. Frank).
- **Columbia University — Master of Arts, May 2022**
Master of arts in cognitive science in education (Advisor: Peter Gordon).
- **Arizona State University — Master of Computer Science, August 2021**
Data science specialization.
- **University of Khartoum — Bachelor of Science, November 2017**
B.Sc. (Honors) degree in Electrical and Electronics Engineering, “specialization in Control and Instrumentation” (Advisor: Mustafa Nawari).

PUBLICATIONS

Journal articles

- Abdelrahim, S., & Frank, M. C. (2026). Examining the robustness and generalizability of the shape bias: a meta-analysis. *Journal of Child Language*, 1–18.
<https://doi.org/10.1017/S0305000926100749>

Manuscripts in preparation

- Abdelrahim, S., et al. (in prep). Word extension tasks as a measurement of the shape bias.
- Abdelrahim, S., Jung, J., Ko, E.-S., & Frank, M. C. (in prep). Lexical statistics in early noun vocabularies across 16 languages.

EXPERIENCE/SERVICE

- **Coordinator of Developmental Psychology Brownbag (Devo Lunch) series- Stanford University, 9/2023-5/2025**
- **Faculty meeting student representative, Department of Psychology, Stanford University, 9/2025-5/2026**
- **Stats committee representative, Department of Psychology, Stanford University, 9/2025-5/2026**
- **Research assistant, Language and Cognition Lab, Columbia University (TC), 5/2021-5/2022**
- **Research assistant, Development and Literacy Lab, Columbia University (TC), 9/2021-5/2022**
- **Teaching assistant, Faculty of Engineering, University of Khartoum, 11/2017-11/2018**
- **Vice President, Arab Innovation Network – University of Khartoum (UOFK) — 11/2016-11/2017**
- **Co-founder and organizer, Reading Day - University of Khartoum (UOFK) — 11/2015-11/2017**
- **Member and Co-founder, Sudan Neuroscience Projects Unit, University of Khartoum (UOFK) — 2019-2020**

MENTORSHIP

Research internship mentor – Stanford University

- Juan Bello, Stanford IRiSS internship program and Foothill College, Summer 2025 (now a cognitive science major at UC San Diego)
- Andrea Marie-Rose, Department of Psychology Summer Internship Program, Summer 2025
- Rachel Bong, Department of Symbolic Systems Summer Internship Program, Summer 2025
- Sadio Mohamed Abdi, Department of Psychology Summer Internship Program, Summer 2024 (now a research coordinator at North Dakota State University)

Honors thesis / capstone advising – Stanford University

- Andrea Marie-Rose, Department of Psychology honors thesis, Winter 2026-ongoing
- Sadio Mohamed Abdi, Department of Psychology honors thesis, Summer 2024-Spring 2025

Graduate mentor – Stanford Language and Cognition Lab (LangCog)

- Meesha Ryan- Research coordinator, Summer 2024-ongoing
- Andrew Bui- Undergraduate Research Assistant, Winter 2026-ongoing
- Jowaan Park- Undergraduate Research Assistant, Winter 2026-ongoing
- Mia Lapiere- Undergraduate Research Assistant, Winter 2026-ongoing
- Toluwanimi Oke- Undergraduate Research Assistant, Autumn 2025
- Kai Vanderlip- Undergraduate Research Assistant, Autumn 2025-ongoing
- Princess Awambu- Undergraduate Research Assistant, Autumn 2025
- Irakli Kvariani- Undergraduate Research Assistant, Autumn 2025-ongoing
- Juan Bello- Undergraduate Research Assistant, Summer-Fall 2025
- Rachel Bong- Undergraduate Research Assistant, Summer 2025-ongoing
- Sadio Mohamed Abdi- Undergraduate Research Assistant, Summer 2024-Spring 2025
- Claire Lee- Undergraduate Research Assistant, Winter 2024-Spring 2025
- Nivedita Kripalani- Undergraduate Research Assistant, Winter 2024-Spring 2025
- Hoang D Nguyen- Undergraduate Research Assistant, Fall/Winter 2024
- Graduate mentor, Bing Honors College program, Stanford University, Summer 2024

TEACHING

Instructor of record

- Instructor and course designer, PSYCH 131S: The developing mind; how humans learn, think, and communicate, Stanford University, Summer 2026

Teaching assistantships

- Teaching assistant, Introduction to Developmental Psychology, Stanford University, Autumn 2025
- Teaching assistant, Longitudinal Data Analysis in Social Science Research, Stanford University, Spring 2025
- Teaching assistant, Introduction to Statistical Methods, Stanford University, Fall 2024
- Head teaching assistant, Introduction to Social Psychology, Stanford University, Spring 2023
- Teaching assistant, Introduction to Developmental Psychology, Stanford University, Autumn 2023
- Teaching assistant, Introduction to Statistical Methods, Stanford University, Fall 2023
- Course Assistant, language development course, Columbia University (TC), Fall 2021
- Teaching assistant, Programming logic controller lab, University of Khartoum (UOFK), Spring 2018
- Teaching assistant, Digital control systems, University of Khartoum (UOFK), Fall 2017

Guest lectures/talks

- Lightning talk, Unmasking Development in the Shape Bias, Stanford Psychology Department Colloquium, Autumn 2025
- Guest speaker, What does language teach us about the human mind?, Stanford IRiSS Predoctoral Program, Winter 2025
- Guest speaker, Informal research talk on word learning, Staff Developmental Day, Bing Nursery School, Stanford University, Spring 2025
- Guest lecturer, Cross-lagged panel models in longitudinal analysis, Psych 289/COMM 365, Stanford University, Spring 2025
- Guest lecturer, Cognitive science and language development, Psych 35/Symsys 200, Minds and Machines, Stanford University, Summer 2024
- Guest lecturer, Stats and Society: On the history of statistics, Psych 10, Introduction to statistical modeling, Stanford University, Fall 2024
- Guest lecturer, Data visualization in R, Psych 10, Introduction to statistical modeling, Stanford University, Fall 2024

GRANTS & FUNDING

- Graduate Community-Engaged Teaching (CET) Fellowship, Stanford Haas Center for Public Service, 2025-2026
- Diverse Intelligences Summer Institute Fellowship, University of St Andrews, 2022
- Fulbright Foreign Student Scholarship, Columbia University, 2020
- Al-Ghurair Foundation for Education (AGFE) OLSP Scholarship, Arizona State University, 2019

AWARDS & HONORS

- Paula Menyuk Travel Award, BUCLD49, Boston University, 2024
- Best paper award, ICCCEEE18 IEEE Conference, 2018
- Top 20 Outstanding Students in the national college entrance examination, Sudan, 2012

CONFERENCE PRESENTATIONS

- Abdelrahim, S., Jung, J., Lee, C., Ko, E.-S., & Frank, M. C. (2025). Lexical statistics in early noun vocabularies: a cross-linguistic and rater-origin perspective. BUCLD50, Boston, MA, USA.
- Abdelrahim, S., Abdi, S., Ryan, M., & Frank, M. C. (2025). Investigating heterogeneity in shape bias: a study on procedural, stimuli, and age-related variations. The 15th Annual BCCCD Conference (BCCCD25), January 9-11, 2025, Budapest, Hungary.
- Abdelrahim, S. O., & Frank, M. C. (2024). Limited cross-linguistic variation in the lexical statistics of nouns in early vocabulary. BUCLD49, Boston, MA, USA.
- Abdelrahim, S. O., & Frank, M. C. (2024). Examining the robustness and generalizability of the shape bias: a meta-analysis. Proceedings of the Annual Meeting of the Cognitive Science Society, 46. Sydney, Australia. <https://escholarship.org/uc/item/4526m5ms>
- Bisbee, N., Tang, J. E., Yu, S. J., Lyu, Z. X., Abdelrahim, S., & Gordon, P. (July 7–10, 2022). Relations between exact number and exact equality: developmental and cross-cultural perspectives. [Conference Poster]. International Congress on Infant Studies (ICIS) 2022 XXIII Biennial Congress, Ottawa, Canada.
- Tang-Lonardo, J., Bisbee, N., Jain, M., Kirby, E., Kim, S. B., Abdelrahim, S., Gerami, S., Sezcon-Cepeda, D., Coffel, M., & Gordon, P. (May 26–29, 2022). The neural mechanisms of parallel individuation and numerical approximation. [Conference Poster]. Association for Psychological Science (APS) 2022 Annual Convention, Chicago, IL, USA.
- Tang, J. E., Bisbee, N., Jain, M., Kirby, E., Kim, S. B., Gerami, S., Sezcon-Cepeda, D., Gilchrist, K., Abdelrahim, S., Coffel, M., & Gordon, P. (July 27–30, 2022). The neurobehavioral basis of parallel individuation and numerical approximation. [Conference Poster]. Cognitive Science Society 2022, 44th Annual Conference, Toronto, Canada.
- S. A. Rahim, S. Ahmed, & M. Nawari (2018). A study of load frequency control for two area power system using two controllers. 2018 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), Khartoum, Sudan, pp. 1–6. doi: 10.1109/ICCCEEE.2018.8515892.