Robert Z. Sparks

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450 Jane Stanford Way, Stanford, CA 94305

Education and Professional Experience		
Lab Manager – Research Coordinator Language and Cognition Lab Advisor: Prof. Michael C. Frank	Stanford University	2022-Present
BS, Symbolic Systems, Departmental Honors Concentration: Cognitive Science Advisor: Prof. Hyowon Gweon	Stanford University	2022
Research Assistant Social Learning Lab Advisors: Prof. Hyowon Gweon and Aaron Chuey	Stanford University	2020-2022
Engineer Program-Modeler Intern CBRNE Defense – Hazard Modeling	Battelle	2019
Honors & Awards		
Robert Glushko Prize for Excellence in Undergradua Recognized for senior Honors project, "Communication as Influ Know Based on How They Influence Others," under the superv Psychology) The Lunsford Award for Oral Presentation of Resea One of 4 Finalists for the Lunsford Award, which recognizes into	uence: Preschool-Aged Children Can Ir ision of Hyowon Gweon and Aaron Ch rch Finalist Stanford Unive novative oral and multimedia presenta	ersity 2019 titions within the
Program in Writing and Rhetoric, emphasizing excellence in dy strong oral delivery.	namic presentations that effectively b	lend research and
Publications		
R. Z. Sparks , B. Long, G. E. Keene, M. J. Perez, A. W.M. Tar contextual variation in children's preschool language envi Proceedings of the 46th Annual Conference of the Cognit	ronment using naturalistic egocen	
B. Long, G. Kachergis, V. A. Marchman, S. F. Radwan, R. Z . Yamins, & M. C. Frank (2023). The BabyView Camera: Des Children's Early Social and Visual Environments. <i>Behavior</i>	igning a New Head-mounted Cam	era to Capture
A. Chuey, R. Z. Sparks , & H. Gweon. (2023). Young childre influence over listeners. In <i>Proceedings of the 45th Annua</i>		
R. Z. Sparks , A. Chuey, & H. Gweon. (2022). Preschool-Ag They Influence Others [Undergraduate Honors Thesis]. <i>St</i>		ers Know Based on How
Abstracts		

V. Boyce, I. Chen, **R. Z. Sparks**, M. Perez, and M. C. Frank (2024). 4-5 year old children can successfully communicate using ad-hoc referential expressions. 6th California Meeting on Psycholinguistics.

Manuscripts in Preparation

B. Long, V. Xiang, S. Stojanov, **R. Z. Sparks**, Z. Yin, G. E. Keene, A. W.M. Tan, S. Y. Feng, C. Zhuang, V. A. Marchman, D. L.K. Yamins, M. C. Frank (2024) The BabyView dataset: High-resolution egocentric videos of infants' and young children's everyday experiences. Submitted for review.

M. Bohn, J. Prein, A. Ayikoru, F. Bednarski, A. Dzabatou, M. C. Frank, A. Henderson, J. Isabella, J. Kalbitz, P. Kanngiesser, D. Keşşafoğlu, B. Koymen, M. V. Manrique-Hernandez, S. Magazi, L. Mújica-Manrique, J. Ohlendorf, D. Olaoba, W. R. Pieters, S. Pope-Caldwell, K. Slocombe, **R. Z. Sparks**, J. Sunderarajan, W. Vieira, Z. Zhang, Y. Zong, R. Stengelin, D. Haun (2024). A universal of human social cognition: Children from 17 communities process gaze in similar ways. Submitted for review.

M. C. Frank, H. Baumgartner, M. Braginsky, G. Kachergis, A. Lightbody, **R. Z. Sparks**, R. Zhu, K. A. Dodge, A. Cubillo (2024). Learning Variability Network Exchange (LEVANTE): A global framework for measuring children's learning variability through collaborative data sharing.

J. Prein, F. Bednarski, A. Dzabatou, M. C. Frank, A. Henderson, J. Isabella, J. Kalbitz, P. Kanngiesser, D. Keşşafoğlu, B. Koymen, M. V. Manrique-Hernandez, S. Magazi, L. Mújica-Manrique, J. Ohlendorf, D. Olaoba, W. R. Pieters, S. Pope-Caldwell, U. Sen, K. Slocombe, **R. Z. Sparks**, R. Stengelin, J. Sunderarajan, K. Sutherland, F. Tusiime, W. Vieira, Z. Zhang, Y. Zong, D. B.M. Haun, M. Bohn (2024). (2024). Measuring variation in gaze following across communities, ages, and individuals — a showcase of the TANGO–CC.

A. Chuey, R. Z. Sparks, S. Wistreich, H. Gweon (2024). Young Children Identify Knowledgeable Speakers Using Causal Influence.

Presentations

Characterizing Contextual Variation in Children's Preschool Language Environment Using Naturalistic Egocentric Videos (Poster)	Cognitive Science Society Conference 2024	July 2024
The Babyview Camera: A Head-Mounted Camera for Capturing Children's Early Social and Visual Experiences (Poster) with: Violet Xiang	eWEAR Annual Meeting Symposium, Stanford Wearable Electronics Initiative	February 2024
Quantifying Children's Everyday Learning Environments via Head-Mounted Camera with: Dr. Bria Long	Language and Cognition Lab, Stanford University	July 2023
Communication as Influence: Preschool- Aged Children can Infer What Speakers Know Based on How They Influence Others	Symbolic Systems Honors Forum, Stanford University	June 2022
Preschool-Aged Children can Infer What Speakers Know Based on How They Influence Others (Poster)	Symbolic Systems Capstone Fair, Stanford University	June 2022
Communication as Influence: Examining Children's Ability to Infer Knowledge from Influence (Poster)	Symbolic Systems Research Forum, Stanford University	October 2021
Examining Children's Ability to Infer Knowledge from Influence	Social Learning Lab, Stanford University	August 2021
Inferring Action Goals and Knowledge Communication	Symbolic Systems Research Forum, Stanford University	October 2020
Mentorship		
Yannick Mofor	Mentor, Stanford Summer Research Internship	2024
Rebecca Pizzitola	Mentor, Stanford Summer Research Internship	2024
Mary Markley	Project Manager, Graduate Research Assistant	2024

Kaitlyn Leahy	Project Manager, Graduate Research Assistant	2023-2024
Hana Doueiri	Mentor, Honors Student Undergraduate Research Assistant	2023-Present
Victoria Phan	Mentor, Undergraduate Research Assistant	2023-Present
Malia Perez	Mentor, Honors Students Undergraduate Research Assistant Stanford Summer Research Internship	2023-Present
Ilaria Chen	Mentor, Stanford Summer Research Internship	2023
Chloe Haydel Brown	Project Manager, Graduate Research Assistant	2023
eaching		
Research Methods in Psychology Delivered a presentation to undergraduate students or	Guest Speaker, Stanford Psychology	Winter 2024
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