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Employment

Stanford University

Benjamin Scott Crocker Professor of Human Biology (2023 – present)
Director, Program in Symbolic Systems (2020 – present)
Director, Center for the Study of Language and Information (2020 – present)
David and Lucile Packard Foundation Professor of Human Biology (2018 – 2023)
Professor of Psychology and (by courtesy) Linguistics (2021 - present)
Associate Professor of Psychology and (by courtesy) Linguistics (2014 – 2021)
Assistant Professor of Psychology and (by courtesy) Linguistics (2010 – 2014)

Education

Massachusetts Institute of Technology

Ph.D (2010), Department of Brain and Cognitive Sciences
Advisor: Edward Gibson
Thesis title: “Early word learning through communicative inference”

Stanford University

B.S. with Honors (2004), Symbolic Systems
B.A. (2004), Comparative Literature

Honors and Awards

Cognitive Science Society Computational Modeling Prize (2022) for Cao, Raz, Saxe, & Frank, “Habituation reflects optimal exploration over noisy perceptual samples”

Cognitive Science Society Diversity and Social Inequality Award (2022) for Kachergis, Francis, & Frank, “Estimating demographic bias on tests of children’s early vocabulary”

Stanford Center for Open and Reproducible Science "Open Science Champion" Award (2022)

Dean’s Award for Distinguished Teaching in the School of Humanities and Sciences in the category of Excellence in Graduate Education (2021)

Society for the Improvement of Psychological Sciences (SIPS) Commendation, for Metalab (2020)

National Academy of Sciences (NAS) Troland Research Award (2020)

Society for the Improvement of Psychological Sciences (SIPS) Mission Award, for ManyBabies 1 (2019)

Cognitive Science Society Computational Modeling Prize (2019) for Peloquin, Goodman, & Frank, “The interactions of rational, pragmatic agents lead to efficient language structure and use”

Society for Language Development Peter Jusczyk Best Paper Award (2018) for Nordmeyer & Frank, “Early understanding of pragmatic principles in children’s judgments of negative sentences.”

Federation of Associations in Behavioral and Brain Sciences (FABBS) Early Career Impact Award (2017)

Klaus W. Jacobs Foundation Advanced Research Fellowship (2016)

Gordon and Dailey Pattee Faculty Fellowship (2014)

Association for Psychological Science Rising Star (2011)

Robert J. Glushko Dissertation Prize, Cognitive Science Society (2011)

Linguistic Society of America Bloch Fellowship (2007–2009)

David Marr Prize for Best Student Paper, Cognitive Science Society (2008) for Frank, Fedorenko, & Gibson, “Language as a cognitive technology: English-speakers match like Pirahã when you don’t let them count.”

National Science Foundation Graduate Fellowship (2006–2010)

Jacob Javits Fellowship for Graduate Study (2006–2010)

Publications

Books

1. Frank, M. C. & Majid, A., Eds. (in prep). *The Open Encyclopedia of Cognitive Science*. MIT Press.
2. Frank, M. C., Braginsky, M., Cachia, J., Coles, N., Hardwicke, T., Hawkins, R., Mathur, M., & Williams, R. (in press). *Experimentology: An Open Science Approach to Experimental Psychology Methods*. MIT Press. <http://experimentology.io>
3. Frank, M. C., Braginsky, M., Yurovsky, D., & Marchman, V. A. (2021). *Variability and Consistency in Early Language Learning: The Wordbank Project*. MIT Press. <http://wordbank-book.stanford.edu>

Peer-Reviewed Journal Articles

4. Long, B., Wong, P., Frank, M. C., Lai, E., Chan, P., & Kachergis, G. (accepted pending data collection). Consistency and variability between cultures during toddlers’ naturalistic play. *Infancy*.
5. Lucca, K., Byers-Heinlein, K., Capelier-Mourguy, A., Cirelli, L., Dal Ben, R., Frank, M. C., ..., & Hamlin, J. K. (accepted pending data collection). Infants’ social evaluation of helpers and hinderers: A large-scale, multi-lab, coordinated replication study. *Developmental Science*.
6. Schuwerk, T., Kamps, D., Baillargeon, R., Biro, S., Bohn, M., Byers-Heinlein, K., ..., Frank, M. C., & Rakoczy, H. (accepted pending data collection). Action anticipation based on an agent’s epistemic state in toddlers and adults. *Child Development*.
7. Soderstrom, M., Werker, J. F., Tsui, A. S. M., Skarabela, B., Seidl, A., Searle, A., ..., & Anderson, L. (accepted pending data collection). Testing the relationship between preferences for infant-directed speech and vocabulary development: A multi-lab study. *Journal of Child Language*.

8. Tsui, A. S. M., Carstensen, A., Kachergis, G., Abubakar, A., Asnake, M., Barry, O., ..., & Frank, M. C. (accepted pending data collection). Exploring variation in infants' preference for infant-directed speech: Evidence from a multi-site study in africa. *Developmental Science*.
9. Long, B., Fan, J. E., Chai, Z., & Frank, M. C. (2024). Parallel developmental changes in children's drawing and recognition of visual concepts. *Nature Communications*.
10. Swanson, E., Frank, M. C., & Degen, J. (2024). Syntactic adaptation and word learning in children and adults. *Language Development Research*.
11. Tamis-LeMonda, C. S., Kachergis, G., Masek, L. R., Gonzalez, S. L., Soska, K. C., Hertzberg, O., ..., & Yurovsky, D. (2024). Comparing apples to manzanas and oranges to naranjas: A new measure of english-spanish vocabulary for dual language learners. *Infancy*.
12. Tan, A. W. M., Marchman, V. A., & Frank, M. C. (2024). The role of translation equivalents in bilingual word learning. *Developmental Science*.
13. Baumgartner, H. A., Alessandroni, N., Byers-Heinlein, K., Frank, M. C., Hamlin, J. K., Soderstrom, M., Voelkel, J. G., Willer, R., Yuen, F., & Coles, N. A. (2023). How to build up big team science: A practical guide for large-scale collaborations. *Royal Society Open Science*, 10, 230235.
14. Bohn, M., Tessler, M. H., Kordt, C., Hausmann, T., & Frank, M. C. (2023). An individual differences perspective on pragmatic abilities in the preschool years. *Developmental Science*, e13401.
15. Boyce, V., Mathur, M. B., & Frank, M. C. (2023). Eleven years of student replication projects provide evidence on the correlates of replicability in psychology. *Royal Society Open Science*.
16. Fortier, M., Kellier, D., Fernández Flecha, M., & Frank, M. C. (2023). Ad-hoc pragmatic implicatures among shipibo-konibo children in the peruvian amazon. *Language Development Research*.
17. Frank, M. C. (2023b). Bridging the data gap between children and large language models. *Trends in Cognitive Sciences*.
18. Long, B., Goodin, S., Kachergis, G., Marchman, V. A., Radwan, S., Sparks, R. Z., Xiang, V., Zhuang, C., Hsu, O., Newman, B., Yamins, D. L. K., & Frank, M. C. (2023). The babyview camera: Designing a new head-mounted camera to capture children's early social and visual environment. *Behavior Research Methods*.
19. Nordmeyer, A. E., & Frank, M. C. (2023). Pragmatic felicity facilitates the production and comprehension of negation. *Collabra: Psychology*, 9(1), 67931.
20. Portelance, E., Duan, Y., Frank, M. C., & Lupyan, G. (2023). Predicting age of acquisition for children's early vocabulary in five languages using language model surprisal. *Cognitive Science*, 47(9), e13334.
21. Singh, L., Barokova, M. D., Baumgartner, H. A., Lopera-Perez, D. C., Okyere Omane, P., Sheskin, M., ..., & Frank, M. C. (2023). A unified approach to demographic data collection for research with young children across diverse cultures. *Developmental Psychology*.
22. Wu, Y., Matteson, H. M., Baker, C. M., & Frank, M. C. (2023). Angry, sad, or scared? within-valence mapping of emotion words to facial and body cues in 2- to 4-year old children. *Collabra: Psychology*, 9(1), 74333.
23. Bohn, M., Tessler, M. H., Merrick, M., & Frank, M. C. (2022). Predicting pragmatic cue integration in adults' and children's inferences about novel word meanings. *Journal of Experimental Psychology: General*.

24. Bohn, M., Schulze, C., Schmidt, L. S., Frank, M. C., & Tessler, M. H. (2022). Modeling individual differences in children's information integration during pragmatic word learning. *Open Mind*, 6, 311–326.
25. Cao*, A., Raz*, G., Saxe, R., & Frank, M. C. (2022). Habituation reflects optimal exploration over noisy perceptual samples. *Topics in Cognitive Science*. **[Cognitive Science Society Computational Modeling Prize]**
26. Geiger, A., Carstensen, A., Frank, M. C., & Potts, C. (2022). Relational reasoning and generalization using non-symbolic neural networks. *Psychological Review*.
27. Gennetian, L. A., Frank, M. C., & Tamis-LeMonda, C. S. (2022). Open science in developmental science. *Annual Review of Developmental Psychology*, 4, 377–397.
28. Hawkins, R. X. D., Franke, M., Frank, M. C., Smith, K., Griffiths, T. L., & Goodman, N. D. (2022). From partners to populations: A hierarchical bayesian account of coordination and convention. *Psychological Review*.
29. Jasbi, M., & Frank, M. C. (2021). Adults and children's comprehension of linguistic disjunction. *Collabra: Psychology*, 7(1), 27702.
30. Jasbi, M., Jaggi, A., Clark, E. V., & Frank, M. C. (2022). Context-dependent learning of linguistic disjunction. *Journal of Child Language*.
31. Jiang, H., Frank, M. C., Kulkarni, V., & Fourtassi, A. (2022). Exploring patterns of stability and change in caregivers' word usage across early childhood. *Cognitive Science*, 46(7), e13177.
32. Kachergis, G., Marchman, V. A., & Frank, M. C. (2022). Toward a "standard model" of early language learning. *Current Directions in Psychological Science*.
33. Kachergis, G., Francis, N., & Frank, M. C. (2022). Estimating demographic bias on tests of children's early vocabulary. *TopiCS in Cognitive Science*, 15(2), 303–314. **[Cognitive Science Society Diversity and Social Inequality Prize]**
34. Kachergis, G., Marchman, V. A., Dale, P., Mankewitz, J., & Frank, M. C. (2022). Online computerized adaptive tests (cat) of children's vocabulary development in english and mexican spanish. *Journal of Speech Hearing and Language Research*, 65, 2288–2308.
35. Kartushina, N., Mani, N., Aktan-Erciyes, A., Alaslani, K., Aldrich, N., Almohammadi, A., Alroqi, H., ..., & Mayor, J. (2022). Covid-19 first lockdown as a unique window into language acquisition: What you do (with your child) matters. *Language Development Research*.
36. Kominsky, J., Lucca, K., Thomas, A., Frank, M. C., & Hamlin, J. K. (2022). Simplicity and validity in infant research. *Cognitive Development*, 63, 101213.
37. Lewis, M. L., Mathur, M. B., VanderWeele, T. J., & Frank, M. C. (2022). The puzzling relationship between multi-lab replications and meta-analyses of the published literature. *Royal Society Open Science*.
38. Long, B., Kachergis, G., Agrawal, K., & Frank, M. C. (2022). A longitudinal analysis of the social information in infants' naturalistic visual experience using automated detections. *Developmental Psychology*, 58, 2211–2229.
39. Long, B., Sanchez, A., Kraus, A. M., Agrawal, K., & Frank, M. C. (2022). Automated detections reveal the social information in the changing infant view. *Child Development*, 93, 101–116.

40. Zettersten, M., Yurovsky, D., Xu, T. L., Uner, S., Tsui, A., Schneider, R. M., Saleh, A., Meylan, S., Marchman, V. A., Mankewitz, J., MacDonald, K., Long, B., Lewis, M., Kachergis, G., Handa, K., deMayo, B., Carstensen, A., Braginsky, M., Boyce, V., ... Frank, M. C. (2022). Peekbank: An open, large-scale repository for developmental eye-tracking data of children's word recognition. *Behavior Research Methods*.
41. Bohn*, M., Tessler*, M. H., Merrick, M., & Frank, M. C. (2021). How young children integrate information sources to infer the meaning of words. *Nature Human Behavior*.
42. Byers-Heinlein, K., Bergmann, C., Black, A., Carbajal, J. M., Fennell, C. T., Frank, M. C., Gervain, J., Gonzalez-Gomez, N., Hamlin, J. K., Kline, M., Kovacs, A. M., Lew-Williams, C., Liu, L., Polka, L., Singh, L., Soderstrom, M., & Tsui, A. S.-M. (2021). A multi-lab study of bilingual infants: Exploring the preference for infant-directed speech. *Advances in Methods and Practices in Psychological Science*, 4.
43. Carstensen, A., & Frank, M. C. (2021). Do graded representations support abstract thought? *Current Opinion in Behavioral Sciences*, 37, 90–97
44. Chuey, A., Asaba, M., Bridgers, S., Carrillo, B., Dietz, G., Garcia, T., Leonard, J. A., Liu, S., Merrick, M., Radwan, S., Stegall, J., Velez, N., Woo, B., Wu, Y., Zhou, X. J., Frank, M. C., & Gweon, H. (2021). Moderated online data-collection for developmental research: Methods and replications. *Frontiers in Psychology*
45. deMayo, B., Kellier, D., Braginsky, M., Bergmann, C., Hendriks, C., Rowland, C., Frank, M. C., & Marchman, V. A. (2021). Web-cdi: A system for online administration of the macarthur-bates communicative development inventories. *Language Development Research*.
46. Hardwicke, T. E., Bohn, M., MacDonald, K., Hembacher, E., Nuijten, M. B., Peloquin, B. N., deMayo, B. E., Long, B., Yoon, E. J., & Frank, M. C. (2021). Analytic reproducibility in articles receiving open data badges at psychological science: An observational study. *Royal Society Open Science*, 8.
47. Jasbi, M., & Frank, M. C. (2021). Adults and children's comprehension of linguistic disjunction. *Collabra: Psychology*, 7(1), 27702.
48. Sullivan, J., Mei, M., Perfors, A., Wojcik, E. H., & Frank, M. C. (2021). Saycam: A large, longitudinal audiovisual dataset recorded from the infant's perspective. *Open Mind*.
49. Wu, Y., Schulz, L., Frank, M. C., & Gweon, H. (2021). Emotion as information in early social learning. *Current Directions in Psychological Science*.
50. Zelazo, P. D., Lourenco, S. F., Frank, M. C., Elison, J., Heaton, R. K., Wellman, H. M., Slotkin, J., Kharitonova, M., & Reznick, J. S. (2021). Measurement of cognition for the national children's study. *Frontiers in Pediatrics*.
51. Zhao, S., Jie, R., Frank, M. C., & Zhou, P. (2021). The development of quantity implicatures in mandarin-speaking children. *Language Learning and Development*.
52. Bohn, M., Le, K., Peloquin, B., Koymen, B., & Bohn, M. (2020). Children's interpretation of ambiguous pronouns based on prior discourse. *Developmental Science*, 24, e13049.
53. Bohn, M., & Frank, M. C. (2020). The pervasive role of pragmatics in early language. *Annual Review of Developmental Psychology*, 1(1), 223–249.
54. Byers-Heinlein, K., Bergmann, C., Davies, C., Frank, M. C., Hamlin, J. K., Kline, M., ..., & Soderstrom, M. (2020). Building a collaborative psychological science: Lessons from manybabies 1. *Canadian Psychology*, 61, 349–363.

55. Ebersole, C. R., Mathur, M. B., Baranski, E., Bart-Plange, D.-J., Buttrick, N. R., ..., & Nosek, B. A. (2020). Many labs 5: Testing pre-data collection peer review as an intervention to increase replicability. *Advances in Methods and Practices in Psychological Science*, 3, 309–331.
56. Fourtassi, A., & Frank, M. C. (2020). How optimal is word-referent identification under multimodal uncertainty? *Cognition*, 199, 104092.
57. Fourtassi, A., Regan, S., & Frank, M. C. (2020). Continuous developmental change explains discontinuities in word learning. *Developmental Science*, e13018.
58. Fourtassi, A., Bian, Y., & Frank, M. C. (2020). The growth of children's semantic and phonological networks: Insight from 10 languages. *Cognitive Science*, 44(7), e12847.
59. Gennetian, L. A., Tamis-LeMonda, C. S., & Frank, M. C. (2020). Advancing transparency and openness in child development research: Opportunities. *Child Development Perspectives*, 14(1), 3–8.
60. Hawkins, R. X. D., Frank, M. C., & Goodman, N. D. (2020). Characterizing the dynamics of learning in repeated reference games. *Cognitive Science*, 44(6), e12845.
61. Hembacher, E., & Frank, M. C. (2020). The early parenting attitudes questionnaire: Measuring intuitive theories of parenting and child development. *Collabra: Psychology*, 6(1), 16.
62. Hembacher, E., deMayo, B., & Frank, M. C. (2020). Children's social information seeking is sensitive to referential ambiguity. *Child Development*, 91, 1178–1193.
63. Lewis, M. L., Cristiano, V., Lake, B. M., Kwan, T., & Frank, M. C. (2020). The role of developmental change and linguistic experience in the mutual exclusivity effect. *Cognition*, 198, 104191.
64. MacDonald, K., Marchman, V. A., Fernald, A., & Frank, M. C. (2020). Children flexibly seek visual information during signed and spoken language comprehension. *Journal of Experimental Psychology: General*, 149, 1078–1096.
65. Mathur, M. B., Bart-Plange, D.-J., Aczel, B., Bernstein, M. H., Ciunci, A., Ebersole, C. R., ..., & Frank, M. C. (2020). Many labs 5: Registered multisite replication of tempting-fate effects in risen & gilovich (2008). *Advances in Methods and Practices in Psychological Science*, 3, 394–404.
66. Peloquin, B., Goodman, N. D., & Frank, M. C. (2020). The interactions of rational, pragmatic agents lead to efficient language structure and use. *Topics in Cognitive Science*, 12, 433–445.
67. Sheskin, M., Scott, K., Mills, C. M., Bergelson, E., Bonawitz, E., Spelke, E. S., Fei-Fei, L., Keil, F., Gweon, H., Tenenbaum, J. B., Jara-Ettinger, J., Adolph, K., Rhodes, M., Frank, M. C., Mehr, S. A., & Schulz, L. (2020). Online developmental science to foster innovation, access, and impact. *Trends in Cognitive Sciences*, 24(9), 675–678.
68. Tsuji, S., Cristia, A., Frank, M. C., & Bergmann, C. (2020). Addressing publication bias in meta-analysis: Empirical findings from community-augmented meta-analyses of infant language development. *Zeitschrift für Psychologie*, 228, 50–61.
69. Yoon, E. J., Tessler, M. H., Goodman, N. D., & Frank, M. C. (2020). Polite speech emerges from competing social goals. *Open Mind*, 4, 71–87.
70. Zhuang, C., Yan, S., Nayeibi, A., Schrimpf, M., Frank, M. C., DiCarlo, J. J., & Yamins, D. L. (2020). Unsupervised neural network models of the ventral visual stream. *Proceedings of the National Academy of Sciences*, 118(3).

71. ManyBabies Consortium. (2020). Quantifying sources of variability in infancy research using the infant-directed speech preference. *Advances in Methods and Practices in Psychological Science*, 3(1), 24–52.
72. Braginsky, M., Yurovsky, D., Marchman, V. A., & Frank, M. C. (2019). Consistency and variability in word learning across languages. *Open Mind*, 3, 52–67.
73. Hardwicke, T. E., Frank, M. C., Vazire, S., & Goodman, S. N. (2019). Should psychology journals adopt specialized statistical review? *Advances in Methods and Practices in Psychological Science*, 2, 240–249.
74. Sanchez*, A., Meylan*, S. C., Braginsky, M., MacDonald, K., Yurovsky, D., & Frank, M. C. (2019). Childes-db: A flexible and reproducible interface to the child language data exchange system. *Behavior Research Methods*, 51(4), 1928–1941.
75. Yoon, E. J., & Frank, M. C. (2019b). The role of salience in young children’s processing of ad-hoc implicatures. *Journal of Experimental Child Psychology*, 186, 99–116.
76. Bergmann, C., Tsuji, S., Piccinini, P. E., Lewis, M. L., Braginsky, M., Frank, M. C., & Cristia, A. (2018). Promoting replicability in developmental research through meta-analyses: Insights from language acquisition research. *Child Development*, 89(6), 1996–2009.
77. Hardwicke, T. E., Mathur, M. B., MacDonald, K., Nilsson, G., Banks, G. C., Kidwell, M. C., Mohr, A. H., Clayton, E., Yoon, E. J., Tessler, M. H., Lenne, R. L., Altman, S., Long, B., & Frank, M. C. (2018). Data availability, reusability, and analytic reproducibility: Evaluating the impact of a mandatory open data policy at the journal cognition. *Royal Society Open Science*, 5(8).
78. Hawkins*, R. X. D., Smith*, E. N., Students, P. 2., & Frank, M. C. (2018). Improving the replicability of psychological science through pedagogy. *Advances in Methods and Practices in Psychological Science*.
79. Lewis, M. L., & Frank, M. C. (2018). Still suspicious: The suspicious coincidence effect revisited. *Psychological Science*, 29(12).
80. Klein, O., Hardwicke, T. E., Aust, F., Breuer, J., Danielsson, H., Mohr, A. H., IJzerman, H., Nilsson, G., Vanpaemel, W., & Frank, M. C. (2018). A practical guide for transparency in psychological science. *Collabra: Psychology*, 4, 20.
81. Nordmeyer, A. E., & Frank, M. C. (2018a). Early understanding of pragmatic principles in children’s judgments of negative sentences. *Language Learning and Development*, 14(4), 262–278. **Society for Language Development Peter Jusczyk Best Paper Award.**
82. Srinivasan, M., Wagner, K., Frank, M. C., & Barner, D. (2018). The role of design and training in artifact expertise: The case of mental abacus and visual attention. *Cognitive Science*, 42, 757–782.
83. Barner, D., Athanasopoulou, A., Chu, J., Lewis, M. L., Marchand, E., Schneider, R. M., & Frank, M. C. (2017). A one-year classroom-randomized trial of mental abacus instruction for first- and second-grade students. *Journal of Numerical Cognition*, 3(3).
84. Brooks, N. B., Barner, D., Frank, M. C., & Goldin-Meadow, S. (2017). The role of gesture in supporting mental representations: The case of mental abacus arithmetic. *Cognitive Science*, 42(2), 554–575.
85. Casillas, M. C., & Frank, M. C. (2017). The development of children’s ability to track and predict turn structure in conversation. *Journal of Memory and Language*, 92, 234–253.

86. Frank, M. C., Bergelson, E., Bergmann, C., Cristia, A., Floccia, C., Gervain, J., Hamlin, J. K., Hannon, E. E., Kline, M., Levelt, C., Lew-Williams, C., Nazzi, T., Panneton, R., Rabagliati, H., Soderstrom, M., Sullivan, J., Waxman, S., & Yurovsky, D. (2017). A collaborative approach to infant research: Promoting reproducibility, best practices, and theory-building. *Infancy*, 22(4), 421–435.
87. Horowitz*, A. C., Schneider*, R. M., & Frank, M. C. (2017). The trouble with quantifiers: Explaining children's deficits in scalar implicature. *Child Development*.
88. MacDonald, K., Yurovsky, D., & Frank, M. C. (2017). Social cues modulate the representations underlying cross-situational learning. *Cognitive Psychology*, 94, 67–84.
89. Meylan, S. C., Roy, B. C., Frank, M. C., & Levy, R. (2017). The emergence of an abstract grammatical category in children's early speech. *Psychological Science*, 28, 181–192.
90. Ouyang, L., Boroditsky, L., & Frank, M. C. (2017). Semantic coherence facilitates distributional learning of word meaning. *Cognitive Science*, 41(54), 855–884.
91. Räsänen, O., Doyle, G., & Frank, M. C. (2017). Pre-linguistic segmentation of speech into syllable-like units. *Cognition*, 171, 130–150.
92. Yurovsky, D., Case, S., & Frank, M. C. (2017). Preschoolers flexibly adapt to noisy linguistic input. *Psychological Science*, 28(1), 132–140.
93. Goodman, N. D., & Frank, M. C. (2016). Pragmatic language interpretation as probabilistic inference. *Trends in Cognitive Sciences*, 20, 818–829.
94. Lewis, M. L., & Frank, M. C. (2016d). Understanding the effect of social context on learning: A replication of xu and tenenbaum (2007b). *Journal of Experimental Psychology: General*, 145(9), e72–e80.
95. Anderson, C. J., Bahnik, S., Barnett-Cowan, M., Bosco, F. A., Chandler, J., Chartier, C. R., ..., & Zuni, K. (2016). Response to a comment on "Estimating the reproducibility of psychological science". *Science*, 351(6277), 1037.
96. Frank, M. C. (2016b). Comment on "Math at home adds up to achievement in school". *Science*, 351, 1161.
97. Frank, M. C., Braginsky, M., Yurovsky, D., & Marchman, V. A. (2017). Wordbank: An open repository for developmental vocabulary data. *Journal of Child Language*, 44(3), 677–694.
98. Lewis, M. L., & Frank, M. C. (2016a). The length of words reflects their conceptual complexity. *Cognition*, 153, 182–195.
99. Waskom, M. L., Frank, M. C., & Wagner, A. D. (2016). Adaptive engagement of cognitive control in context-dependent decision-making. *Cerebral Cortex*, 27(2), 1270–1284.
100. Barner, D., Alvarez, G. A., Sullivan, J., Brooks, N. B., Srinivasan, M., & Frank, M. C. (2016). Learning mathematics in a visuospatial format: A randomized, controlled trial of mental abacus instruction. *Child Development*.
101. Frank, M. C., Sugarman, E., Horowitz, A. C., Lewis, M. L., & Yurovsky, D. (2016). Using tablets to collect data from young children. *Journal of Cognition and Development*, 17(1), 1–17.
102. Horowitz, A. C., & Frank, M. C. (2016). Children's pragmatic inferences as a route for learning about the world. *Child Development*, 87(3), 807–819.
103. Sullivan, J., Frank, M. C., & Barner, D. (2016). Intensive math training does not affect approximate number acuity: Evidence from a three-year longitudinal curriculum intervention. *Journal of Numerical Cognition*, 2(2), 57–76.

104. Hall, S. S., Frank, M. C., Pusiol, G. T., Farzin, F., Lightbody, A. A., & Reiss, A. L. (2015). Quantifying naturalistic social gaze in fragile x syndrome using a novel eye tracking paradigm. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 168(7), 564–572.
105. Horowitz, A. C., & Frank, M. C. (2015b). Young children's developing sensitivity to discourse continuity as a cue for inferring reference. *Journal of Experimental Child Psychology*, 129, 84–97.
106. Goodman, N. D., Frank, M. C., Griffiths, T. L., Tenenbaum, J. B., Battaglia, P. W., & Hamrick, J. B. (2015). Relevant and robust: A response to Marcus and Davis (2013). *Psychological Science*, 26(4), 539–541.
107. Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science*, 349(6251).
108. Phillips, J., Ong, D. C., Surtees, A. D. R., Xin, Y., Williams, S., Saxe, R., & Frank, M. C. (2015). A second look at automatic theory of mind: Reconsidering Kovács, Téglás, and Endress (2010). *Psychological Science*, 26(9), 1353–1367.
109. Potts, C., Lassiter, D., Levy, R., & Frank, M. C. (2015). Embedded implicatures as pragmatic inferences under compositional lexical uncertainty. *Journal of Semantics*, 33(4), 755–802.
110. Roy, B. C., Frank, M. C., DeCamp, P., Miller, M., & Roy, D. (2015). Predicting the birth of a spoken word. *Proceedings of the National Academy of Sciences*, 112(41), 12663–12668.
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257. Kurumada, C., Meylan, S. C., & Frank, M. C. (2011). Zipfian word frequencies support statistical word segmentation. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.
258. Stiller, A., Goodman, N. D., & Frank, M. C. (2011). Ad-hoc scalar implicature in adults and children. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.
259. Rohde, H., & Frank, M. C. (2011). Markers of discourse structure in child-directed speech. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.
260. Tily, H., Frank, M. C., & Jaeger, T. F. (2011). The learnability of constructed languages reflects typological patterns. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.
261. Yoon, J., Witthoft, N., Winawer, J., Frank, M. C., Gibson, E., & Markman, E. M. (2011). Thinking for seeing: Enculturation of visual-referential expertise as demonstrated by photo-triggered perceptual reorganization of two-tone mooney images. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*.
262. Johnson, M., Demuth, K., Frank, M. C., & Jones, B. (2010). Synergies in learning words and their referents. *Advances in Neural Information Processing Systems*, 23.
263. Jones, B. K., Johnson, M., & Frank, M. C. (2010). Learning words and their meanings from unsegmented child-directed speech. *Proceedings of NAACL-HLT*.
264. Vosoughi, S., Roy, B. C., Frank, M. C., & Roy, D. (2010). Contributions of prosodic and distributional features of caregivers' speech in early word learning. *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*.
265. Frank, M. C., Tily, H., Arnon, I., & Goldwater, S. (2010). Beyond transitional probabilities: Human learners impose a parsimony bias in statistical word segmentation. *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*.
266. Vul, E., Frank, M. C., Alvarez, G., & Tenenbaum, J. (2009). Explaining human multiple object tracking as resource-constrained approximate inference in a dynamic probabilistic model. *Advances in Neural Information Processing Systems*, 22.
267. Frank, M. C., Goodman, N. D., Tenenbaum, J. B., & Fernald, A. (2009). Continuity of discourse provides information for word learning. *Proceedings of the 31st Annual Cognitive Science Society*.
268. Frank, M. C., Goodman, N. D., Lai, P., & Tenenbaum, J. B. (2009). Informative communication in word production and word learning. *Proceedings of the 31st Annual Conference of the Cognitive Science Society*.
269. Ichinco, D., Frank, M. C., & Saxe, R. (2009). Cross-situational word learning respects mutual exclusivity. *Proceedings of the 31st Annual Conference of the Cognitive Science Society*.
270. Roy, B. C., Frank, M. C., & Roy, D. (2009). Exploring word learning in a high-density longitudinal corpus. *Proceedings of the 31st Annual Conference of the Cognitive Science Society*.
271. Frank, M. C., Fedorenko, E., & Gibson, E. (2008). Language as a cognitive technology: English-speakers match like Pirahã when you don't let them count. *Proceedings of the 30th Annual Conference of the Cognitive Science Society*. **[Cognitive Science Society Marr Prize for Best Student Paper]**
272. Frank, M. C., Ichinco, D., & Tenenbaum, J. B. (2008). Principles of generalization for learning sequential structure in language. *Proceedings of the 30th Annual Conference of the Cognitive Science Society*.

273. Frank, M. C., Goodman, N. D., & Tenenbaum, J. B. (2007). A bayesian framework for cross-situational word-learning. *Advances in Neural Information Processing Systems*.
274. Frank, M. C., Goldwater, S., Mansinghka, V., Griffiths, T. L., & Tenenbaum, J. B. (2007). Modeling human performance in statistical word segmentation. *Proceedings of the 29th Annual Meeting of the Cognitive Science Society*.
275. Frank, M. C., Mansinghka, V., Gibson, E., & Tenenbaum, J. B. (2007). Word segmentation as word learning: Integrating meaning learning with distributional cues to segmentation. *Proceedings of the 31st Annual Boston University Conference on Language Development*.
276. Johnson, S. P., Davidow, J., Hall, C. H., & Frank, M. C. (2006). Developmental mechanisms of perceptual completion. *Proceedings of the International Conference on Development and Learning*.
277. Witthoft, N., Winawer, J., Wu, L., Frank, M. C., Wade, A., & Boroditsky, L. (2003). Effects of language on color discriminability. *Proceedings of the 25th Annual Conference of the Cognitive Science Society*.
278. Boroditsky, L., Ramscar, M., & Frank, M. C. (2001). Roles of body and mind in abstract thought. *Proceedings of the 23rd Annual Meeting of the Cognitive Science Society*.

Grants, Gifts, and Contracts

Amazon Research. 1/1/24 – 12/31/25. \$100,000.

Microsoft Accelerate Program. 10/1/23 – 3/1/24. \$20,000.

Stanford Vice Provost and Dean of Research. 1/1/24 – 12/31/25. \$80,000.

Jacobs LEVANTE Data Coordinating Center. 7/1/23 – 12/31/24. 1,995,000 CHF.

Jacobs Foundation Creating Impact Science Program (CRISP). 9/1/22 – 8/31/27. 150,000 CHF.

Schmidt Futures. 9/1/21 – 8/31/24. “BabyLearn: Advancing AI and Predictive Models of Grounded Child Language Learning Through Ultra-Dense Recordings of Children’s Early Egocentric Experience.” \$750,000.

NIH R01. (Co-PI, with PI Maya Mathur). 9/1/21 – 8/31/25. “Statistical Methods for Modern Evidence Syntheses with Multiple Biases.” \$1,337,900.

Stanford Human-Centered AI Institute Hoffman-Yee Stage 2 Award. (PI: Daniel Yamins, 4 Co-PI team). 6/1/20 – 5/31/21. “Learning to Play: Using the Learning Principles of Early Childhood to Build Self-Supervising AI Agents and Understand Developmental Variability.” \$500,000.

Stanford Child Health Research Initiative: Structural Racism, Social Injustice and Health Disparities Pilot Grant - (PI), 1/21 – 12/21, “Measuring Children’s Early Vocabulary Using Large Scale Data from Diverse Families.” \$34,941.

Stanford Human-Centered AI Institute Hoffman-Yee Stage 1 Award. (PI: Chris Potts, 6 Co-PI team). 6/1/20 – 5/31/21. “Towards grounded, adaptive communication agents.” \$500,000.

Stanford Human-Centered AI Institute Hoffman-Yee Stage 1 Award. (PI: Daniel Yamins, 5 Co-PI team). 6/1/20 – 5/31/21. “Learning to Play: Using the Learning Principles of Early Childhood to Build Self-Supervising AI Agents and Understand Developmental Variability.” \$500,000.

Facebook AI Research. (Co-PI: Daniel Yamins). 6/1/20 – 5/31/22. “Learning to play: understanding infant development with intrinsically motivated artificial agents.” \$270,000.

Institute for Research in the Social Sciences. 6/1/20 – 5/31/21. “Using an Online Platform to Measure Early Language in Children from Diverse Families.” \$10,000.

NSF Research Experience for Undergraduates (Co-PI: Chris Potts, Linguistics). Renewal. 5/1/20 – 4/30/23. “REU Site: Language, Cognition, and Computation.” \$379,000.

Fetzer-Franklin Foundation Metascience award. “MetaLab: from meta-analysis to mega-analysis.” 1/1/2020 - 12/31/2020: \$20,000.

John S. McDonald Foundation. Collaborative grant “The ontogeny of propositional thought.” PI: Susan Carey. Subcontract to Stanford: \$76,000.

Stanford Human-centered AI institute. 5/1/19 – 4/30/20. “Learning to Play: Understanding Infant Development with Intrinsically Motivated Artificial Agents.” \$75,000.

NIH R01 (Co-I, with Antonio Hardan and Karen Parker, Psychiatry). 7/1/17 – 3/31/22. “Intranasal vasopressin treatment in children with autism.” \$3,864,801.

Gift from Kinedu, Inc. (second) for the purpose of studying electronically-delivered parenting interventions. 3/1/18. \$80,000.

Contract from Kinedu, Inc. for the purpose of studying electronically-delivered parenting interventions. 3/1/18 – 2/28/20. \$160,000.

Stanford Data Science Institute. 9/1/18 – 8/31/19. “Lexical networks in children’s early language.” \$50,000.

Stanford Center at Peking University Faculty Fellowship. 9/1/18. Funding for collaborative meetings in Beijing. \$12,000.

Jacobs Foundation. 10/1/18 – 9/30/20. “A roadmap towards integrating African labs into international collaborative research on early cognitive/language development.” \$148,733.

Zhou Gift for Research on Language Development. 11/1/17 – 10/31/29. \$400,000 (of initial \$1,000,000 pledge).

NSF Research Experience for Undergraduates (Co-PI: Chris Potts, Linguistics). 5/1/17 – 4/30/20. “REU Site: Language, Cognition, and Computation.” \$283,231.

Jacobs Foundation Advanced Research Fellowship. 1/1/17 – 12/31/20. 400,000 CHF.

Berkeley Institute for Transparency in the Social Sciences (Co-Investigators: Christina Bergmann, Sho Tsuji, Alex Cristia). 12/1/16 - 11/31/17. “MetaLab: Paving the way for easy to use, dynamic, crowd-sourced meta-analyses.” \$29,100.

Association for Psychological Science Grant to support ManyBabies 1 Data Collection. Regranted to participating labs. 9/15/16 – 9/15/17. \$52,000.

NSF DRK (Co-PI: David Barner, UCSD). 9/1/15 – 8/31/16. “Collaborative Research: RAPID: Evaluating the Cognitive and Educational Benefits of Mental Abacus Training.” Stanford budget: \$99,958.

Gift from Kinedu, Inc. for the purpose of studying electronically-delivered parenting interventions. \$160,000.

France-Stanford Collaborative Grant (Co-PI: Emmanuel Dupoux, LSCP, Paris). 9/1/2015 – 8/31/2016 “Learning Sound and Meaning Jointly in Early Language Acquisition.” \$14,000.

NSF Perception, Action, and Cognition (Co-PIs: Roger Levy, UCSD; Chris Potts, Stanford). 9/1/15 – 8/31/18. “Collaborative Research: CompCog: Broad-coverage probabilistic models of communication in context.” Stanford budget: \$427,940.

NSF Development and Learning Sciences. 7/1/15 – 6/30/18. “Wordbank: An open repository for developmental vocabulary data.” \$502,087.

NIH R21 (Co-PI, with Antonio Hardan and Grace Gengoux, Psychiatry), 12/13 – 12/15, “Pivotal response treatment package for young children with autism.” \$431,750.

Department of the Navy (Co-PI, with Chris Potts, Linguistics, and Noah Goodman, Psychology), 01/13 – 12/15, “Grounded language understanding as social cognition.” \$494,731.

John Merck Scholars (PI), 5/11 – 5/15, “Social attention and word learning in typical development and autism spectrum disorders.” \$300,000.

Stanford Bio-X Interdisciplinary Initiatives Program (Co-PI, with Fei-Fei Li, Computer Science), 1/13 – 12/14, “Computational methods for characterizing children’s first-person social experiences.” \$150,000.

Stanford Child Health Research Initiative (PI), 2/13 – 2/14, “Social and attentional components of early word learning.” \$32,000.

Australian Research Council Discovery Proposal DP110102506 (Partner Investigator, with PIs Mark Johnson and Katherine Demuth, Macquarie University), 6/11 – 6/13, “Computational models of synergies in human language acquisition.” \$368,000.

Hellman Faculty Scholars (PI), 9/11 – 9/12, “Characterization of children’s social attention via eye-tracking at the San Jose Children’s Discovery Museum.” \$36,400.

Humanities Center Workshop (Co-Organizer, with Chris Potts, Linguistics, and Krista Lawlor, Philosophy), 9/11 – 9/12, “Context dependence in language and cognition.” \$12,000.

NSF Doctoral Dissertation Research Improvement Grant #0746251 (Co-PI, with Edward Gibson, MIT), 2/07 – 2/09, “Empirical studies and probabilistic models of word segmentation and word learning.” \$12,000.

Invited Presentations (Selected)

Ecole Normale Supérieure, Department d’Études Cognitives Colloquium, July 2023.

Max Planck Institute for Evolutionary Anthropology, July 2023.

IBM Research Talk Series, June 2023.

NYU Psych/Data Science Colloquium, May 2023.

University of Amsterdam LOT Winter School Schultink Lecture, January 2023.

University of Amsterdam Psych Methods Colloquium, January 2023.

Simons Foundation Autism Research Initiative, December 2022.

Columbia University Faculty Seminar, November 2022.

Keynote at Samvera User Conference, October 2022.

Dagstuhl Workshop tutorial, October 2022.

LUCID Network Colloquium, October 2022.

Barnard Cognitive Science Colloquium, September 2022.

Goettingen University Colloquium, June 2022.

Society for Research in Child Development Webinar on Global Diversity, April 2022.

Yale Taylor Memorial Lecture, March 2022.

George Washington University Colloquium, February 2022.

UPenn MindCore Colloquium, February 2022.

China Open Science Network, December 2021.

Durham RIOT Science Club, November 2021.

L+ International Summer School, July 2021.

Ecole Normale Supérieure, Department d'Études Cognitives Colloquium, May 2021.

Stanford Human-Centered Artificial Intelligence Speaker Series, May 2021.

Keynote at Empirical Methods in Language Acquisition Research (EMLAR), April 2021.

Duolingo, Inc. Colloquium, March 2021.

Invited Student Workshop, Boston University Conference on Language Development, November 2020.

Keynote at Western Psychological Association, October 2020.

University of Massachusetts, Amherst Colloquium, September 2020.

International Congress on Infant Studies invited symposium, June 2020.

Keynote at Cross-linguistic Perspectives on Processing and Learning, October 2019.

Keynote at paEpsy (German Psychological Association Developmental Subsection), September 2019.

Bing Nursery School Distinguished Speaker Lecture. May 2019.

Invited keynote at Royal Society meeting, "Big data for better science: technologies for measuring behaviour," February 2019.

University of Oregon Psychology Colloquium, October 2018.

National Institutes of Health Behavioral and Social Sciences Research Coordinating Committee, October 2018.

Tsinghua University Linguistics Colloquium, September 2018.

Keynote at Uncertainty in Artificial Intelligence, July 2018.

Legrain Conference at Ecole Normale Supérieure, July 2018.

Northwestern Cognitive Science Colloquium, May 2018.

Association for Psychological Science Invited Address, May 2018.

UC Merced Cognitive Science Colloquium, April 2018.

Ewha and Yonsei University Colloquia, March 2018.

UCSD Psychology Colloquium, November 2017.

University of Maryland Cognitive Science Colloquium, September 2017.

Chegg, Inc. Data Science for Education Speaker Series, September 2017.

Keynote at Basque Center Stat Learning Conference, June 2017.

UBC Gold Medal Language Sciences Speaker Series, Feb 2017.

Keynote at XPRAG.de Satellite Symposium, May 2016.

Princeton Cognitive Science Colloquium, March 2016.

Harvard Psychology Colloquium, February 2016.

UNLV Psychology Colloquium, December 2015.

Brain and Mind Institute Opening Symposium, Chinese University of Hong Kong, November 2015.

Keynote at XPRAG.de (Experimental Pragmatics Workshop), July 2015.

Keynote at SocialNLP Workshop, North American Conference on Computational Linguistics (NAACL), June 2015.

Google Tech Talks, March 2015.

Pennsylvania State University, Young Scholar Series, January 2015.

University of Edinburgh, School of Informatics, August 2014.

UC Merced Psychology Colloquium, March 2014.

Indiana University Cognitive Science Colloquium, February 2014.

Society for Language Development Invited Symposium, "Mechanisms of word learning," November 2013.

Child Development Society Invited Symposium, "Science at an exhibition: What we learn from studying children in museums," October 2013.

Morris Symposium (at Stony Brook Linguistics), "What counts in language and cognition: Number and quantification in the mind/brain," September 2013.

NYU Linguistics Colloquium, September 2013.

Max Planck Institute for Psycholinguistics (Nijmegen, Netherlands), Invited Symposium, "Challenges for the field of language development," October 2012.

RIKEN Brain Sciences Institute (Tokyo, Japan), July 2012.

UC Berkeley Program in Undergraduate Research Keynote, April 2012.

UC Merced Cognitive Science Colloquium, April 2012.

UC Santa Cruz Psychology Colloquium, April 2012.

UC Berkeley Cognitive Science Colloquium, February 2012.

University of Michigan Theme Semester, “Language: the Human Quintessence,” January 2012.
 Australian National University Linguistics Colloquium, August 2011.
 Macquarie University (Sydney, Australia) Workshop on Language, Logic, and Learning, August 2011.
 Stanford Undergraduate Psychology Conference Keynote, May 2011.
 UMD Linguistics Colloquium, October 2010.
 International Research Training Group on Language Technology and Cognitive Systems, Kloster Irsee (Munich, Germany), June 2009.
 University of Edinburgh School of Informatics Colloquium, June 2009.
 Conference on Natural Language Learning (CoNLL) Keynote, June 2009.
 Psychonomic Society Invited Symposium, “ Language as a Tool for Thinking,” November 2008.

Mentorship

Postdoctoral and Other Supervision

Mika Braginsky – current software developer
 Amy Lightbody – current research scientist
 Rebecca Zhu – current postdoc
 Nicholas Coles – Executive Director, Psychological Science Accelerator – current research scientist
 Heidi Baumgartner – Executive Director, ManyBabies – current research scientist
 Bria Long – current postdoc (NSF SBE Postdoc Fellowship, NIH K99/R00)
 Katherine Shannon – current postdoc (NIH F32), co-advised Hyowon Gweon
 Yang Wu – former postdoc, co-advised Hyowon Gweon
 George Kachergis – former research scientist
 Georgia Loukatou – former postdoc
 Alexandra Carstensen – former postdoc – Assistant Professor, Arizona State University
 Pooja Paul – former postdoc, CSLI Fellow
 Judy Fan – former postdoc, co-advised Daniel Yamins – Assistant Professor, Stanford
 Angeline Tsui – former postdoc – Huawei, Inc.
 Tom Hardwicke – former postdoc, co-supervised with METRICS meta-research center – University of Melbourne
 Manuel Bohn – former postdoc (Marie Curie Fellowship) – Assistant Professor, Leuphana University
 Abdellah Fourtassi - former postdoc (Fyssen Fellowship) – Assistant Professor, University of Marseilles
 Emily Hembacher – former postdoc (Stanford Child Health Research Initiative grantee)

Gabriel Doyle – former postdoc – Assistant Professor, San Diego State University

Daniel Yurovsky – former postdoc (NIH NRSA award through NICHD, Anne Fernald, co-mentor) – Assistant Professor, Carnegie Mellon University – Amazon

Guido Pusiol – former postdoc (co-advised, Fei-Fei Li, CS Department), currently Stanford CS postdoc

Brandon C. Roy – former postdoc (co-advised, Deb Roy, MIT Media Lab), currently Twitter, Inc.

Graduate Students

Steven Feng – current graduate student

Julio Martinez – current graduate student

Samah Abdelrahim – current graduate student

Alvin Tan – current graduate student

Anjie Cao – current graduate student

Veronica Boyce – current graduate student

Rondeline Williams, Ford Fellowship, NSF Honorable Mention – current graduate student

Eva Portelance (Linguistics) – former graduate student – McGill postdoc

Ben Peloquin – former graduate student – Meta AI research

Erica Yoon – former graduate student, NSERC (Canadian NSF-equivalent) Fellow – Assistant Professor, San Mateo Community College

Masoud Jasbi – former graduate student (co-advised, Eve Clark, Linguistics) – postdoc Harvard – Assistant Professor, UC Davis

Kyle MacDonald – former graduate student, NSF Graduate Fellowship – postdoc UCLA

Molly L. Lewis – former graduate student, NSF Honorable Mention – Special Faculty, Carnegie Mellon

Ann E. Nordmeyer – former graduate student, NSF Graduate Fellowship – Assistant Professor, Southern New Hampshire University

Alexandra Horowitz – former graduate student, Stanford Weiland Fellow – Facebook

Marissa Casillas (Linguistics) – former graduate student (co-advised, Eve Clark, Linguistics) – Assistant Professor, University of Chicago

Ph.D Committee Memberships

(Psychology Department except where noted.)

Atticus Geiger, Aaron Chuey, Michael Hahn (Linguistics), Ben Stenhaus (Education), Natalia Vélez, Arianna Yuan, Sophie Bridgers, Erin Bennett, Cai Guo, Mika Asaba, Robert Hawkins, Michael Henry Tessler, Robin Melnick (Linguistics), Phil Crone (Linguistics), Eleanor Chestnut, Alex Genevsky, Justine Kao, Ricardo Bion, Sarah Gripshover, Taylor Holubar, Daniel Hawthorne, Long Ouyang, Chigusa Kurumada (Linguistics), Marisa Casillas (Linguistics), Hilarie Mazur, Brandon Roy (MIT Media Lab), Lucas Butler, Jennifer Yoon, Hanna Popick, Steven Flusberg, Jessica Tsang (Education), Bokyoung Kim (Communication)

Research Assistants

Grace Keene – current RA

Robert Sparks – current RA

Jessica Mankewitz – former RA, now Psychology PhD student, UW Madison

Samaher Radwan – former RA, now Stanford Graduate School of Education

Benjamin deMayo – former RA, now Psychology PhD student, Princeton

Megan Merrick – former RA, now Psychology PhD student, University of Indiana

Vivian Zhang – former RA, now Psychology PhD student, Cornell

Jacqueline Quirke – former RA

Alessandro Sanchez – former RA

Danielle Kellier – former RA, UPenn medical school

Veronica Cristiano – former RA, now SLP student, Gallaudet

Rose Schneider – former RA, now Psychology PhD student, UCSD

Mika Braginsky – former RA, now Psychology PhD student, MIT

Andrew Weaver – former RA

Sarah James – former RA

Janelle Klaas – former RA

Allison Kraus – former RA

Stephan Meylan – former RA, PhD Berkeley, Postdoc MIT

Theresa Hennings – former RA

Selected Masters, Undergraduate, and High School Students

(All undergraduates listed participated in laboratory research for at least 2–3 quarters.)

Stanford:

Alvin Tan (2022) – SSP MS

Isabella Duan (2021) – HumBio BS, honors thesis

Elizabeth Swanson (2021) – HumBio BS, honors thesis

Claire Baker (2021) – HumBio BS, honors thesis

Hannah Marshall (2021) – Psych BS, honors thesis

Gloria Yi (2021) – Symbolic Systems BS, honors thesis

Khuyen Le (2021) – Symbolic Systems BS, honors thesis

Tania Dhaliwal (2020) – SSP BS, honors thesis

Sophie Regan (2020) – SSP BS, honors thesis, SSP MS

Hang Jiang (2020) – SSP MS, PhD MIT Media Lab

Benjamin deMayo (2018) – psych BA, honors thesis
 Tamara Mekler (2017) – HumBio BA, honors thesis
 Allison Dods (2016) – Symbolic Systems BS, honors thesis
 Benjamin Peloquin (2016) – Symbolic Systems MS
 Sarah Case (2016) – HumBio BA, honors thesis
 Rachel Chung (2015) – Science, Technology, & Society BS, honors thesis, Haas Fellow
 Nicholas Moores (2015) – Ling BA, Psych MA, honors thesis, UAR Major Grant
 Elise Sugarman (2014) – Symbolic Systems BS, honors thesis, UAR Major Grant
 Laura Soriano (2014) – HumBio BA, honors thesis, UAR Major Grant
 Stephanie Muscat (2013) – HumBio BA, honors thesis (Dornbusch award), UAR Major Grant
 Kaia Simmons (2013) – HumBio BA, honors thesis (Dornbusch award), UAR Major Grant
 Stephanie Nicholson (2013) – Psych BA, UAR Major Grant (declined), Beinecke Scholar
 Rebecca Chung (2013) – SymSys BS, honors thesis
 Monchette Gonda (2013) – HumBio BA, reading on Cog Neuro of Language (with Sam McClure)
 Binna Kim (2012) – Psych BA, Psych co-term
 Maya Mathur (2012) – Psych BA, Statistics co-term, Harvard PhD, Assistant Professor, Stanford QSU
 Cybelle Smith (2012) – Ling BA, now PhD student University of Illinois, NSF GRFP
 Alex Stiller (2012) – Symbolic Systems MS, now Linguistics PhD student UCSD, Adjunct, San Diego Community College
 Adrienne Gispen (2011) – SymSys BS, DAAD fellow in Germany

Other Institutions:

Naiti Bhatt – CSLI intern (Scripps)
 Charles Wu – CSLI intern (Wabash), now PhD student, CMU
 Liza Benabbas – RISE intern, Emoryville HS
 Angelica Perez – RISE intern, Eastside College Prep (HS), Yale undergraduate
 Allison Gofman – Hendrick Hudson School (HS), Intel Semifinalist, Harvard undergraduate
 Avril Kenney – MIT SB, now M.Eng. student at MIT
 Peter Lai – MIT SB, now software engineer at Crocodoc
 Denise Ichinco – MIT SB, now software engineer at Smarter Travel Media

Service

Editorial Service

Co-Editor-in-Chief, Open Encyclopedia of Cognitive Sciences, MIT Press.
 Special issue editor, “Large Language Models“, Language Development Research (2023)
 Special section editor for Registered Reports, Child Development (2020–2023)
 Special issue editor, “Replication, Collaboration, and Best Practices in Infancy Research,” Infant Behavior and Development (2019)

Ad-hoc editor, Proceedings of the National Academy of Sciences (5 articles, 2016–2020)

Associate Editor: Cognition (2016–2017)

Editorial Board: Cognitive Science Journal (2010–present), Journal of Experimental Psychology: General (2016–present), Advances in Methods and Practices in Psychological Science (AMPPS) (2017–present)

Conference reviewing: Boston University Conference on Language Development; Neural Information Processing Systems; International Conference on Infant Studies; Association for Computational Linguistics; Semantics and Linguistic Theory (SALT); and others.

Ad-hoc reviewer: Child Development, Cognition, Cognitive Science, Developmental Psychology, Developmental Science, Journal of Memory and Language, Nature Human Behavior, Proceedings of the National Academy of Sciences, Psychological Review, Psychological Science, Science, Nature, and others.

Program Committee: Cognitive Science Society Annual Meeting (2010–present), Workshop on Cognitive Modeling and Computational Linguistics (at the Association for Computational Linguistics meeting, 2010–2013)

Governance

Founder and governing board member, ManyBabies Consortium (2015–Present)

Governing Board: Cognitive Science Society (2015–2021), elected position; Chair of the Governing Board (2018–2019)

Founding Member and Interim Executive Committee: Society for the Improvement of Psychological Science (2016–2018)

Advisory Board: MacArthur-Bates Communicative Development Inventory (2014–present), Databrary (2016–present)

Executive board member: Linguistic Society of America (2007–2009)

Organizational board: CUNY Sentence Processing Conference (2011), Stanford Child Language Research Forum (2009)

Departmental and University Service

Director, Symbolic Systems Program (2020–present)

Director, Center for the Study of Language and Information (2020–present)

Chair, Stanford Psychology Statistics Committee (2017–present)

Stanford Psychology Diversity Committee (2017–2020)

Acting Director, Center for the Study of Language and Information (2016–2017)

Organizer, Center for the Study of Language and Information (CSLI) Summer Program for undergraduate research experiences (2014–present)

Bing Nursery School Scientific Advisory Board (2012–present)

Other Service

National Children's Study: Cognitive Health Domain Team Member (2014–2015)

APS Search Committee for Editor in Chief for new *Advances in Methodologies and Practices in Psychological Science* (AMPPS) journal

Founding board member and former secretary, The I-HELP Liberia Project, Inc., not-for-profit 501(c)(3) dedicated to improving math and science education in Liberia.

Parent Board Member, Children's Center of the Stanford Community (2017–2018, 2020–present).

Continuing memberships in: Cognitive Science Society, International Society for Infant Studies, Society for Research in Child Development, Association for Psychological Science, Society for the Improvement of Psychological Science

Media Coverage and Outreach

Outreach using the social web to promote cognitive science and developmental psychology:

Twitter: @mcxfrank (>14,000 followers)

Blogging at *Babies Learning Language* (~ 100 posts over 7 years)

Frank et al. (2020). "Variability and Consistency in Children's Early Language: The Wordbank Project"

The Atlantic "The Mystery of Babies' First Words." (Spring 2019).

Stanford Magazine. (March 2020).

ManyBabies Consortium (2020). "Quantifying sources of variability in infancy research using the infant-directed speech preference."

Stanford Report, Psychology Today.

Meylan et al. (2017). "The emergence of an abstract grammatical category in children's early speech"

Reported in Stanford Report, Science Daily

Anderson et al. (2016): Response to comment on "Estimating the reproducibility of psychological science"

Reported in many major media outlets, including Slate, The Atlantic, etc.

Roy et al. (2015): "Predicting the birth of a spoken word"

Reported in Stanford Report, Science News, Spectrum.de, Focus.it

Open Science Collaboration (2015): "Estimating the reproducibility of psychological science"

Reported in many major media outlets, including New York Times, Washington Post, Nature, Science, The Atlantic, etc.

Personally conducted radio interviews for WNYC and for KUSP

Frank & Goodman (2012): "Predicting pragmatic reasoning in language games"

Reported in Stanford Report, Science Daily, Wired Magazine, EFE Newswire.

Frank & Barner (2011): "Representing exact number visually using mental abacus"

Reported in Stanford Report, Discover Magazine Online, New Scientist, India Express, Times of India.

Frank, Vul, & Johnson (2009): "Development of infants' attention to faces in the first year"

Reported in Babytalk magazine, April 2009.

Frank et al. (2008): "Number as a cognitive technology: Evidence from Pirahã language and cognition"

Reported on sciencenews.org, [Language Log](http://LanguageLog.com), slashdot.org, London Telegraph, Discover Magazine (100 Top Science Stories of 2008).

Last updated: February 13, 2024

<http://www.stanford.edu/~mcfrank/papers/cv.pdf>