




## Heidi Baumgartner

ManyBabies Executive Director

Center for the Study of Language and Information (CSLI)

 NIH Biosketch available Online

 Curriculum Vitae available Online

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### Bio

#### BIO

Dr. Heidi Baumgartner is a Research Scholar at Stanford University, the co-director of the Stanford Big Team Science Lab, and the Executive Director of ManyBabies, an international collaborative network in developmental psychology research. Heidi completed a PhD in Developmental Psychology at the University of California, Davis, and spent three years as a postdoctoral research associate at Brown University. She is passionate about transparency and openness in big team science.

#### ACADEMIC APPOINTMENTS

- Social Science Research Scholar, Center for the Study of Language and Information (CSLI)

#### ADMINISTRATIVE APPOINTMENTS

- Executive Director, ManyBabies, (2021- present)
- Co-Director, Big Team Science Lab, (2022- present)
- Co-Organizer, Big Team Science Conference, (2022- present)

#### PROFESSIONAL EDUCATION

- PhD, University of California, Davis , Psychology (2014)
- MA, University of California, Davis , Psychology (2010)
- BA, Stanford University , Psychology (2005)

#### LINKS

- ManyBabies: <https://manybabies.org/>
- Big Team Science Lab: <https://bigteamsciencelab.github.io>
- Big Team Science Conference: <https://bigteamscienceconference.github.io>

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### Research & Scholarship

#### RESEARCH INTERESTS

- Child Development
- Early Childhood
- Psychology
- Research Methods
- Science Education

## CURRENT RESEARCH AND SCHOLARLY INTERESTS

As the executive director of the ManyBabies global consortium ([manybabies.org](http://manybabies.org)), I am interested in facilitating Big Team Science practices to address difficult outstanding theoretical and methodological questions about the nature of early development and how it is studied.

## Publications

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### PUBLICATIONS

- **How to build up big team science: a practical guide for large-scale collaborations.** *Royal Society open science*  
Baumgartner, H. A., Alessandrini, N., Byers-Heinlein, K., Frank, M. C., Hamlin, J. K., Soderstrom, M., Voelkel, J. G., Willer, R., Yuen, F., Coles, N. A.  
2023; 10 (6): 230235
- **'Big team' science challenges us to reconsider authorship.** *Nature human behaviour*  
Coles, N. A., DeBruine, L. M., Azevedo, F., Baumgartner, H. A., Frank, M. C.  
2023
- **A unified approach to demographic data collection for research with young children across diverse cultures.** *Developmental psychology*  
Singh, L., Barokova, M. D., Baumgartner, H. A., Lopera-Perez, D. C., Omane, P. O., Sheskin, M., Yuen, F. L., Wu, Y., Alcock, K. J., Altmann, E. C., Bazhydai, M., Carstensen, A., Chan, et al  
2023
- **ManyBabies 5: A large-scale investigation of the proposed shift from familiarity preference to novelty preference in infant looking time**  
Kosie, J. E., Zettersten, M., Abu-Zhaya, R., Amso, D., Babineau, M., Baumgartner, H. A., et al  
PsyArXiv.  
2023
- **ManyBabies3: A multi-lab study of infant algebraic rule learning**  
Visser, I., Geambasu, A., Baumgartner, H. A., et al  
PsyArXiv.  
2022
- **The origins of cortical multisensory dynamics: Evidence from human infants** *DEVELOPMENTAL COGNITIVE NEUROSCIENCE*  
Werchan, D. M., Baumgartner, H. A., Lewkowicz, D. J., Amso, D.  
2018; 34: 75-81
- **An Eye Tracking Investigation of Color-Location Binding in Infants' Visual Short-Term Memory** *INFANCY*  
Oakes, L. M., Baumgartner, H. A., Kanjlia, S., Luck, S. J.  
2017; 22 (5): 584-607
- **Investigating the Relation Between Infants' Manual Activity With Objects and Their Perception of Dynamic Events** *INFANCY*  
Baumgartner, H. A., Oakes, L. M.  
2013; 18 (6): 983-1006
- **Developmental changes in visual short-term memory in infancy: evidence from eye-tracking** *FRONTIERS IN PSYCHOLOGY*  
Oakes, L. M., Baumgartner, H. A., Barrett, F. S., Messenger, I. M., Luck, S. J.  
2013; 4: 697
- **Using infrared eye-tracking to explore ordinal numerical processing in toddlers with Fragile X Syndrome** *JOURNAL OF NEURODEVELOPMENTAL DISORDERS*  
Owen, E. R., Baumgartner, H. A., Rivera, S. M.  
2013; 5: 1
- **Manual object exploration and learning about object features in human infants**  
Oakes, L. M., Baumgartner, H. A., IEEE  
IEEE.2012
- **The Feasibility of Detecting Neuropsychologic and Neuroanatomic Effects of Type 1 Diabetes in Young Children** *DIABETES CARE*  
Aye, T., Reiss, A. L., Kesler, S., Hoang, S., Drobny, J., Park, Y., Schleifer, K., Baumgartner, H., Wilson, D. M., Buckingham, B. A.

2011; 34 (7): 1458-1462

● **Infants' Developing Sensitivity to Object Function: Attention to Features and Feature Correlations** *JOURNAL OF COGNITION AND DEVELOPMENT*

Baumgartner, H. A., Oakes, L. M.

2011; 12 (3): 275-298

● **Longitudinal Brain Volume Changes in Preterm and Term Control Subjects During Late Childhood and Adolescence** *PEDIATRICS*

Ment, L. R., Kesler, S., Vohr, B., Katz, K. H., Baumgartner, H., Schneider, K. C., Delancy, S., Silbereis, J., Duncan, C. C., Constable, R. T., Makuch, R. W., Reiss, A. L.

2009; 123 (2): 503-511

● **Children's developing ability to interpret adjective-noun combinations** *30th Annual Boston-University Conference on Language Development*

Thorpe, K., Baumgartner, H., Fernald, A.

CASCADILLA PRESS.2006: 631-642