

Baby Brain Lab Reading List

REQUIRED READING

Autism

- Lord, C., Cook, E. H., Leventhal, B. L., & Amaral, D. G. (2000). Autism spectrum disorders. *Neuron*, 28(2), 355-363.
 - [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(18\)31129-2/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(18)31129-2/fulltext)
- Estes, A., John, T. S., & Dager, S. R. (2019). What to Tell a Parent Who Worries a Young Child Has Autism. *JAMA psychiatry*, 76(10), 1092-1093.
 - <https://jamanetwork.com/journals/jamapsychiatry/article-abstract/2739303>
- Landa, R. J. (2018). Efficacy of early interventions for infants and young children with, and at risk for, autism spectrum disorders. *International Review of Psychiatry*, 30(1), 25-39.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6034700/>
- Hazlett, H. C., Gu, H., Munsell, B. C., Kim, S. H., Styner, M., Wolff, J. J., ... & Collins, D. L. (2017). Early brain development in infants at high risk for autism spectrum disorder. *Nature*, 542(7641), 348.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5336143/>
- Yankowitz, L. D., Schultz, R. T., & Parish-Morris, J. (2019). Pre-and Paralinguistic Vocal Production in ASD: Birth Through School Age. *Current psychiatry reports*, 21(12), 126.
 - <https://pubmed.ncbi.nlm.nih.gov/31749074/>
- Outcomes of children receiving Group-Early Start Denver Model in an inclusive versus autism-specific setting: A pilot randomized controlled trial.
 - https://journals.sagepub.com/doi/full/10.1177/1362361318801341?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed
- Ozonoff, S., Gangi, D., Hanzel, E. P., Hill, A., Hill, M. M., Miller, M., ... & Iosif, A. M. (2018). Onset patterns in autism: Variation across informants, methods, and timing. *Autism Research*.
 - <https://onlinelibrary.wiley.com/doi/abs/10.1002/aur.1943>
- Fletcher-Watson, S., Larsen, K., Salomone, E., & COST ESSEA Working Groups. (2017). What do parents of children with autism expect from participation in research? A community survey about early autism studies. *Autism*, 1362361317728436.
 - <http://journals.sagepub.com/doi/abs/10.1177/1362361317728436>
- Bölte, S. (2019). Hey autism researcher, what's on your mind today about inclusion?
 - <https://journals.sagepub.com/doi/full/10.1177/1362361319870994>
- Li, D., Karnath, H. O., & Xu, X. (2017). Candidate biomarkers in children with autism spectrum disorder: a review of MRI studies. *Neuroscience bulletin*, 33(2), 219-237.
 - <https://link.springer.com/article/10.1007%2Fs12264-017-0118-1>

- Vulchanova, M., Ramos Cabo, S., & Vulchanov, V. (2019). Gesture and language trajectories in early development: An overview from the Autism Spectrum Disorder perspective. *Frontiers in Psychology*, 10, 1211.
 - <https://www.frontiersin.org/articles/10.3389/fpsyg.2019.01211/full#h2>
- Rutter, M. L. (2011). Progress in understanding autism: 2007–2010. *Journal of autism and developmental disorders*, 41(4), 395-404.
 - <https://link.springer.com/article/10.1007/s10803-011-1184-2>
- Szatmari, P., Chawarska, K., Dawson, G., Georgiades, S., Landa, R., Lord, C., ... & Halladay, A. (2016). Prospective longitudinal studies of infant siblings of children with autism: lessons learned and future directions. *Journal of the American Academy of Child & Adolescent Psychiatry*, 55(3), 179-187.
 - <https://www.sciencedirect.com/science/article/pii/S0890856716000095>

Infant Development

- Adolph, K. E., Hoch, J. E., & Cole, W. G. (2018). Development (of Walking): 15 Suggestions. *Trends in cognitive sciences*.
 - <https://www.sciencedirect.com/science/article/pii/S1364661318301244>
- Card, N. A. (Ed.) (2015). *Developmental methodology*. Monographs of the Society for Research in Child Development.
 - (PDFs in dropbox) <https://onlinelibrary.wiley.com/toc/15405834/2017/82/2>
- Eason, A. E., Hamlin, J. K., & Sommerville, J. A. (2017). A survey of common practices in infancy research: Description of policies, consistency across and within labs, and suggestions for improvements. *Infancy*, 22(4), 470-491.
 - <https://onlinelibrary.wiley.com/doi/abs/10.1111/infa.12183>
- Weber, A., Fernald, A., & Diop, Y. (2017). When cultural norms discourage talking to babies: effectiveness of a parenting program in rural Senegal. *Child development*, 88(5), 1513-1526.
 - <https://onlinelibrary.wiley.com/doi/abs/10.1111/cdev.12882>
- Moore, C., Dailey, S., Garrison, H., Amatuni, A., & Bergelson, E. (2019). Point, Walk, Talk: Links Between Three Early Milestones, from Observation and Parental Report. *Developmental psychology*.
 - <https://pubmed.ncbi.nlm.nih.gov/31094558/>
- Fantastic example of responsive parenting behaviors: <https://youtu.be/DOfEu2zqrkQ>

Caregiver Speech and Long-Scale Home Language Recordings

- Hart, B., & Risley, T. R. (2003). The early catastrophe: The 30 million word gap by age 3. *American educator*, 27(1), 4-9.
 - <https://www.aft.org/sites/default/files/periodicals/TheEarlyCatastrophe.pdf>

- Swanson, M. R., Donovan, K., Paterson, S., Wolff, J. J., Parish-Morris, J., Meera, S. S., ... & Shen, M. D. (2019). Early language exposure supports later language skills in infants with and without autism. *Autism Research*.
 - <https://www.ncbi.nlm.nih.gov/pubmed/31254329>
- Weisleder, A., & Fernald, A. (2013). Talking to children matters: Early language experience strengthens processing and builds vocabulary. *Psychological science*, 24(11), 2143-2152.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5510534/>
- Rindermann, H., & Baumeister, A. E. (2015). Parents' SES vs. parental educational behavior and children's development: A reanalysis of the Hart and Risley study. *Learning and Individual Differences*, 37, 133-138.
 - <https://www.sciencedirect.com/science/article/pii/S1041608014002507>
- VanDam, M., Warlaumont, A. S., Bergelson, E., Cristia, A., Soderstrom, M., De Palma, P., & MacWhinney, B. (2016, May). HomeBank: An online repository of daylong child-centered audio recordings. In *Seminars in speech and language* (Vol. 37, No. 02, pp. 128-142). Thieme Medical Publishers.
 - <https://www.thieme-connect.de/products/ejournals/abstract/10.1055/s-0036-1580745>
- Bergelson, E., Amatuni, A., Dailey, S., Koorathota, S., & Tor, S. (2019). Day by day, hour by hour: Naturalistic language input to infants. *Developmental science*, 22(1), e12715.
 - <https://onlinelibrary.wiley.com/doi/full/10.1111/desc.12715>
- Bergelson, E., Casillas, M., Soderstrom, M., Seidl, A., Warlaumont, A. S., & Amatuni, A. (2019). What do North American babies hear? A large-scale cross-corpus analysis. *Developmental science*, 22(1), e12724.
 - <https://www.ncbi.nlm.nih.gov/pubmed/30369005>
- Sperry, D. E., Sperry, L. L., & Miller, P. J. (2018). Reexamining the Verbal Environments of Children From Different Socioeconomic Backgrounds. *Child development*.
 - <https://onlinelibrary.wiley.com/doi/abs/10.1111/cdev.13072>
- Golinkoff, Hoff, Rowe, Tamis-LeMonda, & Hirsh-Pasek, 2018, Talking with children matters: Defending the 30 million word gap, *Education Plus Development*
 - <https://www.brookings.edu/blog/education-plus-development/2018/05/21/defending-the-30-million-word-gap-disadvantaged-children-dont-hear-enough-child-directed-words/>
- Rowe, M. L., & Zuckerman, B. (2016). Word gap redux: Developmental sequence and quality. *JAMA pediatrics*, 170(9), 827-828.
 - <https://jamanetwork.com/journals/jamapediatrics/fullarticle/2531459>
- Rowe, M. L., & Leech, K. A. (2018). A parent intervention with a growth mindset approach improves children's early gesture and vocabulary development. *Developmental science*, e12792.
 - <https://onlinelibrary.wiley.com/doi/full/10.1111/desc.12792>

- Rowe, M. L. (2018). Understanding socioeconomic differences in parents' speech to children. *Child Development Perspectives*, 12(2), 122-127.
 - <https://onlinelibrary.wiley.com/doi/full/10.1111/cdep.12271>
- Vernon-Feagans, L., Bratsch-Hines, M., Reynolds, E., & Willoughby, M. (2019). How Early Maternal Language Input Varies by Race and Education and Predicts Later Child Language. *Child development*.
 - <https://www.ncbi.nlm.nih.gov/pubmed/31317532>

Neurodevelopment

- Piven, J., Elison, J. T., & Zylka, M. J. (2017). Toward a conceptual framework for early brain and behavior development in autism. *Molecular psychiatry*, 22(10), 1385.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5621737/>
- Amaral, D. G., Schumann, C. M., & Nordahl, C. W. (2008). Neuroanatomy of autism. *Trends in neurosciences*, 31(3), 137-145.
 - <https://www.sciencedirect.com/science/article/pii/S0166223608000386>
- Stiles, J., & Jernigan, T. L. (2010). The basics of brain development. *Neuropsychology review*, 20(4), 327-348.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2989000/>
- Muhle, R. A., Reed, H. E., Stratigos, K. A., & Veenstra-VanderWeele, J. (2018). The Emerging Clinical Neuroscience of Autism Spectrum Disorder: A Review. *JAMA psychiatry*.
 - <https://jamanetwork.com/journals/jamapsychiatry/article-abstract/2675373?redirect=true>
- Wang, Y., & Olson, I. R. (2018). The Original Social Network: White Matter and Social Cognition. *Trends in cognitive sciences*.
 - https://www.sciencedirect.com/science/article/pii/S1364661318300664?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_recommender_email
- Guyer, A. E., Pérez-Edgar, K., & Crone, E. A. (2018). Opportunities for Neurodevelopmental Plasticity From Infancy Through Early Adulthood. *Child development*.
 - <https://onlinelibrary.wiley.com/doi/abs/10.1111/cdev.13073>
- Fields, R. D. (2015). A new mechanism of nervous system plasticity: activity-dependent myelination. *Nature Reviews Neuroscience*, 16(12), 756.
 - <https://www.nature.com/articles/nrn4023>
- Ouyang, M., Dubois, J., Yu, Q., Mukherjee, P., & Huang, H. (2018). Delineation of early brain development from fetuses to infants with diffusion MRI and beyond. *NeuroImage*.

- https://www.sciencedirect.com/science/article/pii/S105381191830301X?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_recommender_email#fig5

Neuroimaging Methodology

- Catani, M., & De Schotten, M. T. (2008). A diffusion tensor imaging tractography atlas for virtual in vivo dissections. *cortex*, 44(8), 1105-1132.
 - (PDF in BOX) <https://www.ncbi.nlm.nih.gov/pubmed/18619589>
- Verde, A. R., Budin, F., Berger, J. B., Gupta, A., Farzinfar, M., Kaiser, A., ... & Sharma, A. (2014). UNC-Utah NA-MIC framework for DTI fiber tract analysis. *Frontiers in neuroinformatics*, 7, 51.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3885811/>
- O'Donnell, L. J., & Westin, C. F. (2011). An introduction to diffusion tensor image analysis. *Neurosurgery Clinics*, 22(2), 185-196.
 - (PDF in BOX) <https://www.ncbi.nlm.nih.gov/pubmed/21435570>
- Soares, J., Marques, P., Alves, V., & Sousa, N. (2013). A hitchhiker's guide to diffusion tensor imaging. *Frontiers in neuroscience*, 7, 31.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3594764/>
- Fields, R. D. (2008). White matter matters. *Scientific American*, 298(3), 54-61.
 - (PDF in BOX) <https://www.scientificamerican.com/article/white-matter-matters/>
- Sparrow, S. A., Anblagan, D., Drake, A. J., Telford, E. J., Pataky, R., Piyasena, C., ... & Boardman, J. P. (2018). Diffusion MRI parameters of corpus callosum and corticospinal tract in neonates: comparison between region-of-interest and whole tract averaged measurements. *European Journal of Paediatric Neurology*.
 - <https://www.sciencedirect.com/science/article/pii/S1090379817317786>
- DTI Crash Course by Martin Styner: <https://www.med.unc.edu/psych/research/niral/download/download-documents/>
- Mikhael, S. S., & Pernet, C. (2019). A controlled comparison of thickness, volume and surface areas from multiple cortical parcellation packages. *BMC bioinformatics*, 20(1), 55.
 - <https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-019-2609-8>
- Mostapha, M., & Styner, M. (2019). Role of deep learning in infant brain MRI analysis. *Magnetic resonance imaging*.
 - <https://www.sciencedirect.com/science/article/pii/S0730725X19300384>

Eye-Tracking Methodology

- Dalrymple, K. A., Manner, M. D., Harmelink, K. A., Teska, E. P., & Elison, J. T. (2018). An examination of recording accuracy and precision from eye tracking data from toddlerhood to adulthood. *Frontiers in psychology*, 9.
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5974590/>
- Niehorster, D. C., Cornelissen, T. H., Holmqvist, K., Hooge, I. T., & Hessels, R. S. (2018). What to expect from your remote eye-tracker when participants are unrestrained. *Behavior research methods*, 50(1), 213-227.
 - <https://www.ncbi.nlm.nih.gov/pubmed/28205131>
- Wass, S. V., Smith, T. J., & Johnson, M. H. (2013). Parsing eye-tracking data of variable quality to provide accurate fixation duration estimates in infants and adults. *Behavior Research Methods*, 45(1), 229-250.
 - <https://link.springer.com/article/10.3758/s13428-012-0245-6>
- Wass, S. V., Forssman, L., & Leppänen, J. (2014). Robustness and precision: How data quality may influence key dependent variables in infant eye-tracker analyses. *Infancy*, 19(5), 427-460.
 - <https://onlinelibrary.wiley.com/doi/full/10.1111/infa.12055>
- Hessels, R. S., Andersson, R., Hooge, I. T., Nyström, M., & Kemner, C. (2015). Consequences of eye color, positioning, and head movement for eye-tracking data quality in infant research. *Infancy*, 20(6), 601-633.
 - <https://onlinelibrary.wiley.com/doi/full/10.1111/infa.12093>