

# Journal Bibliography – Research Publications

## 2024

Katus, L., Crespo-Llado, M. M., Milosavljevic, B., Saidykh, M., Njie, O., Fadera, T., McCann, S., Acolatse, L., Perapoch Amadó, M., Rozhko, M., Moore, S. E., Elwell, C. E., & Lloyd-Fox, S. (2024). It takes a village: Caregiver diversity and language contingency in the UK and rural Gambia. *Infant Behavior and Development*, 74, 101913. <https://doi.org/https://doi.org/10.1016/j.infbeh.2023.101913>

## 2023

Bastianello, T., Lorenzini, I., Nazzi, T., & Majorano, M. (2023). The Language ENvironment Analysis system (LENA): A validation study with Italian-learning children. *Journal of Child Language*, 1-21. <https://doi.org/10.1017/S0305000923000326>

Bergelson, E., Soderstrom, M., Schwarz, I.-C., Rowland, C., Ramírez-Esparza, N., Hamrick, L. R., Marklund, E., Kalashnikova, M., Guez, A., Casillas, M., Benetti, L., van Alphen, P., & Cristia, A. (2023). Everyday language input and production in 1,001 children from six continents. *Proceedings of the National Academy of Sciences*, 120(52), e2300671120. <https://doi.org/doi:10.1073/pnas.2300671120>

Blom, E., Fikkert, P., Schepers, A., van Witteloostuijn, M., & van Alphen, P. (2023). The language environment at home of children with (a suspicion of) a developmental language disorder and relations with standardized language measures. *Journal of Speech, Language, and Hearing Research*, 66(8), 2821-2830. [https://doi.org/doi:10.1044/2023\\_JSLHR-23-00066](https://doi.org/doi:10.1044/2023_JSLHR-23-00066)

Brock, A. S., & Hampton, C. E. (2023). The linguistic input of fathers of children who are deaf or hard of hearing. *Perspectives of the ASHA Special Interest Groups*, 8(4), 683-692. [https://doi.org/doi:10.1044/2023\\_PERSP-23-00002](https://doi.org/doi:10.1044/2023_PERSP-23-00002)

Cooper, A. M., Reschke, P. J., Porter, C. L., Coyne, S. M., Stockdale, L. A., Graver, H., Siufanua, M., Rogers, A., & Walle, E. A. (2023). "Oh no! What happened?" an investigation of parent-child conversations about self-conscious emotions. *Developmental Psychology*, 59(11), 2133-2147. <https://doi.org/10.1037/dev0001583>

Cunha, F., Gerdes, M., Hu, Q., & Nihtanova, S. (2023). *Language environment and maternal expectations: an evaluation of the Lena Start program* (NBER Working Paper No. 30837). National Bureau of Economic Research. <http://www.nber.org/papers/w30837>

Custode, S. A., Bailey, J., Sun, L., Katz, L., Ullery, M., Messinger, D., Bulotsky-Shearer, R. J., & Perry, L. K. (2023). Preschool language environments and social interactions in an early intervention classroom: A pilot study. *Journal of Early Intervention*, 0(0), 1-18. <https://doi.org/10.1177/10538151231176176>

Der Nederlanden, S. J., Schaeffer, J. C., Van Bakel, H. H. J. A., & Dirks, E. (2023). Socio-economic status and other potential risk factors for language development in the first year of life. *Journal of Child Language*, 1-21. <https://doi.org/10.1017/S0305000923000478>

Estrada, K. A., Govindaraj, S., Abdi, H., Moraglia, L. E., Wolff, J. J., Meera, S. S., Dager, S., McKinstry, R. C., Styner, M. A., Zwaigenbaum, L., Piven, J., & Swanson, M. (2023). Language exposure during infancy is negatively associated with white matter microstructure in the arcuate fasciculus. *Developmental Cognitive Neuroscience*, 61. <https://doi.org/10.1016/j.dcn.2023.101240>

Fasano, R. M., Mitsven, S. G., Custode, S. A., Sarker, D., Bulotsky-Shearer, R. J., Messinger, D. S., & Perry, L. K. (2023). Automated measures of vocal interactions and engagement in inclusive preschool classrooms. *Autism Research*, 1-14. <https://doi.org/https://doi.org/10.1002/aur.2980>

Feng, T., Zhang, X., Zhou, L., Zhang, Y., Pappas, L., Dill, S.-E., Rozelle, S., & Ma, Y. (2023). Variations in the home language environment and early language development in a peri-urban community in China. *Early Childhood Research Quarterly*, 64, 199-215. <https://doi.org/10.1016/j.ecresq.2023.03.005>

Fibla, L., Forbes, S. H., McCarthy, J., Mee, K., Magnotta, V., Deoni, S., Cameron, D., & Spencer, J. P. (2023). Language exposure and brain myelination in early development. *Journal of Neuroscience*, 43(23), 4279-4290. <https://doi.org/10.1523/JNEUROSCI.1034-22.2023>

Flippin, M. (2023). Student perspectives on learning language sample analysis using LENA. *Teaching and Learning in Communication Sciences & Disorders*, 7(1), 6. <https://doi.org/10.30707/TLCSD7.1.1675490380.842994>

Ha, S., Yoon, T.-J., & So, J. (2023). The predictability of naturalistic evaluation of all-day recordings for speech and language development. 20th International Congress of Phonetic Sciences, Prague, Czech Republic.

- Hamrick, L. R., Seidl, A., & Kelleher, B. L. (2023). Semi-automatic assessment of vocalization quality for children with and without Angelman syndrome. *American Journal on Intellectual and Developmental Disabilities*, 128(6), 425-448. <https://doi.org/10.1352/1944-7558-128.6.425>
- Huber, E., Corrigan, N. M., Yarnykh, V. L., Ramírez, N. F., & Kuhl, P. K. (2023). Language experience during infancy predicts white matter myelination at age 2 years. *The Journal of Neuroscience*, 43(9), 1590-1599. <https://doi.org/10.1523/jneurosci.1043-22.2023>
- Huber, E., Ramírez, N. F., Corrigan, N. M., & Kuhl, P. K. (2023). Parent coaching from 6 to 18 months improves child language outcomes through 30 months of age. *Developmental Science*, e13391. <https://doi.org/10.1111/desc.13391>
- Kondaurova, M. V., VanDam, M., Zheng, Q., & Welikson, B. (2023). Fathers' unmodulated prosody in child-directed speech. *The Journal of the Acoustical Society of America*, 154(6), 3556-3567. <https://doi.org/10.1121/10.0022571>
- Lee, Y., & Ha, S. (2023). Parental verbal responsiveness to infant vocalizations from 9 to 14 months of age. *Infant Behavior and Development*, 73, 101886. <https://doi.org/10.1016/j.infbeh.2023.101886>
- Lerma-Arregocés, D. (2023). Los tipos de interacción musical en el contexto familiar y cotidiano: La relación musical de Bruna y sus padres (The types of musical interaction in the family and everyday context: The musical relationship of Bruna and her parents). *Epistemus. Revista de Estudios en Música, Cognición y Cultura*, 11(1), 052. <https://doi.org/10.24215/18530494e052>
- Ma, Y., Pappas, L., Zhang, X., Feng, T., Su, W. B., Wang, Q., Zeng, Y., Dill, S.-E., & Rozelle, S. (2023). Family-level factors of early childhood development: Evidence from rural China. *Infant Behavior and Development*, 70. <https://doi.org/10.1016/j.infbeh.2022.101787>
- Ma, Y., Jonsson, L., Yao, Z., Zhang, X., Friesen, D., Medina, A., Rozelle, S., & Pappas, L. (2023). The home language environment in rural China: variations across family characteristics. *BMC Public Health*, 23. <https://doi.org/10.1186/s12889-023-15245-2>
- Malachowski, L. G., Salo, V. C., Needham, A. W., & Humphreys, K. L. (2023). Infant placement and language exposure in daily life. *Infant and Child Development*, 32(3), e2405. <https://doi.org/10.1002/icd.2405>
- Markfeld, J. E., Feldman, J. I., Daly, C., Santapuram, P., Bowman, S. M., Dunham-Carr, K., Suzman, E., Keçeli-Kaysılı, B., & Woynaroski, T. G. (2023). The stability and validity of automated indices of vocal development in infants with Autistic and non-Autistic siblings. *Journal of Speech, Language, and Hearing Research*. [https://doi.org/10.1044/2023\\_JSLHR-23-00069](https://doi.org/10.1044/2023_JSLHR-23-00069)
- McGowan, E. C., Caskey, M., Tucker, R., & Vohr, B. R. (2023). A randomized controlled trial of a Neonatal Intensive Care Unit language intervention for parents of preterm infants and 2-Year language outcomes. *The Journal of Pediatrics*, 264, 113740. <https://doi.org/10.1016/j.jpeds.2023.113740>
- Oller, D. K., Gilkerson, J., Richards, J. A., Hannon, S. M., Griebel, U., Bowman, D. D., Brown, J. A., Yoo, H., & Warren, S. F. (2023). Sex differences in infant vocalization and the origin of language. *iScience*. [https://www.cell.com/iscience/pdf/S2589-0042\(23\)00961-6.pdf](https://www.cell.com/iscience/pdf/S2589-0042(23)00961-6.pdf)
- Ramírez, N. F. (2023). What do parents really think? Knowledge, beliefs, and self-awareness of parentese in relation to its use in daylong recordings. *First Language*, 0(0), 01427237231216010. <https://doi.org/10.1177/01427237231216010>
- Ramírez, N. F., Weiss, Y., & Sheth, K. K. (2023). Parentese in infancy predicts 5-year language complexity and conversational turns. *Journal of Child Language*, 1-26. <https://doi.org/10.1017/S0305000923000077>
- Ruan, Y., Byers-Heinlein, K., Orena, A. J., & Polka, L. (2023). Mixed-language input and infant volubility: Friend or foe? *Bilingualism: Language and Cognition*, 1-16. <https://doi.org/10.1017/S1366728923000287>
- Ruan, Y., Orena, A. J., & Polka, L. (2023). Comparing different measures of bilingual input derived from naturalistic daylong recordings. *Journal of Speech, Language, and Hearing Research*, 66(5), 1618-1630. [https://doi.org/10.1044/2023\\_JSLHR-22-00180](https://doi.org/10.1044/2023_JSLHR-22-00180)
- Ståhlberg-Forsén, E., Latva, R., Aija, A., Lehtonen, L., & Stolt, S. (2023). Language environment and parent-infant close contact in neonatal care and emerging lexical abilities of very preterm children—a longitudinal study. *Acta Paediatrica*, 112(4), 659-666. <https://doi.org/10.1111/apa.16647>
- Wang, T., Yu, E. C., Huang, R., & Lany, J. (2023). Acoustic cues to phrase and clause boundaries in infant-directed speech: Evidence from LENA recordings. *Journal of Child Language*, 1-20. <https://doi.org/10.1017/S030500092300034X>

Wanzek, J., Wood, C., & Schatschneider, C. (2023). Teacher vocabulary use and student language and literacy achievement. *Journal of Speech, Language, and Hearing Research*, 1-14. Advance online publication. [https://doi.org/https://doi.org/10.1044/2023\\_JSLHR-22-00605](https://doi.org/https://doi.org/10.1044/2023_JSLHR-22-00605)

Zhang, X., Liu, D., Pappas, L., Dill, S.-E., Feng, T., Zhang, Y., Zhao, J., Rozelle, S., & Ma, Y. (2023). The home language environment and early childhood development: a LENA study from rural and peri-urban China. *Applied Developmental Science*, 1-19. <https://doi.org/10.1080/10888691.2023.2267440>

Zheng, Z., Degotardi, S., Sweller, N., & Djonov, E. (2023). Effects of multilingualism on Australian infants' language environments in early childhood education centers. *Infant Behavior and Development*, 70. <https://doi.org/https://doi.org/10.1016/j.infbeh.2022.101799>

## 2022

Bang, J. Y., Kachergis, G., Weislander, A., & Marchman, V. (2022). An automated classifier for child-directed speech from LENA recordings. *Proceedings of the 46th annual Boston University Conference on Language Development*.

Binòs, P., & Petinou, K. (2022). Language environmental analysis (LENA) of three Cypriot Greek-speaking children. ExLing 2022 Proceedings of 13th International Conference of Experimental Linguistics, Paris, France.

Brock, A. S., & Bass-Ringdahl, S. M. (2022). Coaching caregivers of children who are deaf or hard of hearing. *The Journal of Deaf Studies and Deaf Education*. <https://doi.org/https://doi.org/10.1093/deafed/enac048>

Colombani, A., Saksida, A., Pintonello, S., De Caro, F., & Orzan, E. (2022). Assessment of communication abilities in four children with early bilateral CIs in clinical and home environments with LENA system: a case report. *Children (Basel)*, 9(5). <https://doi.org/10.3390/children9050659>

Duncan, R. J., Anderson, K. L., King, Y. A., Finders, J. K., Schmitt, S. A., & Purpura, D. J. (2022). Predictors of preschool language environments and their relations to children's vocabulary. *Infant and Child Development*, e2381. <https://doi.org/https://doi.org/10.1002/icd.2381>

Fields-Olivieri, M. A., & Cole, P. M. (2022). Toddler negative emotion expression and parent-toddler verbal conversation: Evidence from daylong recordings. *Infant Behavior and Development*, 67, 101711. <https://doi.org/10.1016/j.infbeh.2022.101711>

Joseph, G. E., Soderberg, J., Abbott, R., Garzon, R., & Scott, C. (2022). Improving language support for infants and toddlers: results of FIND coaching in childcare. *Infant & Young Children*, 35(2), 91-105. <https://doi.org/10.1097/YYC.0000000000000214>

Leung, C. Y. Y., Trinidad, J. E., & Suskind, D. L. (2022). Increases in language input are sustained among mothers of low SES: Evidence from a randomized controlled trial. *Parenting*, 1-33. <https://doi.org/10.1080/15295192.2022.2115912>

Levin-Asher, B., Segal, O., & Kishon-Rabin, L. (2022). The validity of LENA technology for assessing the linguistic environment and interactions of infants learning Hebrew and Arabic. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01874-9>

Lileikyte, R., Irvin, D., & Hansen, J. H. (2022). Assessing child communication engagement and statistical speech patterns for American English via speech recognition in naturalistic active learning spaces. *Speech Communication*, 140, 98-108. <https://doi.org/https://doi.org/10.1016/j.specom.2022.01.006>

Long, H. L., Ramsay, G., Griebel, U., Bene, E., Bowman, D. D., Burkhardt-Reed, M., & Oller, D. K. (2022). Perspectives on the origin of language: Infants vocalize most during independent vocal play but produce their most speech-like vocalizations during turn taking. *PLoS ONE*, 17(12), e0279395. <https://doi.org/https://doi.org/10.1371/journal.pone.0279395>

Markfeld, J. E., Feldman, J. I., Bordman, S. L., Daly, C., Santapuram, P., Humphreys, K. L., Keçeli-Kaysılı, B., & Woynaroski, T. (2022). Associations between caregiver stress and language outcomes in infants with autistic and non-autistic siblings: An exploratory study. *Journal of Speech, Language, and Hearing Research*. [https://doi.org/https://doi.org/10.1044/2022\\_JSLHR-22-00154](https://doi.org/https://doi.org/10.1044/2022_JSLHR-22-00154)

Micheletti, M., Yao, X., Johnson, M., & de Barbaro, K. (2022). Validating a model to detect infant crying from naturalistic audio. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01961-x>

Munson, B., Lackas, N., & Koeppe, K. (2022). Individual differences in the development of gendered speech in preschool children: evidence from a longitudinal study. *Journal of Speech, Language, and Hearing Research*, 65(4), 1311-1330. [https://doi.org/10.1044/2021\\_JSLHR-21-00465](https://doi.org/10.1044/2021_JSLHR-21-00465)

- Muzzio, E. G. (2022). Preliminary Findings: Early turn talking is associated with later social-emotional development. *The Volta Review*, 122(1). <https://doi.org/10.17955/tvr.122.1.symp2>
- Peter, B., Davis, J., Finestack, L., Stoel-Gammon, C., VanDam, M., Bruce, L., Kim, Y., Eng, L., Cotter, S., Landis, E., Beames, S., Scherer, N., Knerr, I., Williams, D., Schrock, C., & Potter, N. (2022). Translating principles of precision medicine into speech-language pathology: Clinical trial of a proactive speech and language intervention for infants with classic galactosemia. *HGG Advances*, 3(3), 100119. <https://doi.org/10.1016/j.xhgg.2022.100119>
- Ramírez, N. F., Hippe, D. S., Correa, L., Andert, J., & Baralt, M. (2022). Habla conmigo, daddy! Fathers' language input in North American bilingual Latinx families. *Infancy*. <https://doi.org/10.1111/infa.12450>
- Sundqvist, A., Koch, F. S., Soderberg, M., Barr, R., & Heimann, M. (2022). Qualitative and quantitative aspects of child-directed parental talk and the relation to 2-year-old's developing vocabulary. *Infancy*. <https://doi.org/10.1111/infa.12476>
- Weiss, Y., Huber, E., Ramírez, N. F., Corrigan, N. M., Yarnykh, V. L., & Kuhl, P. K. (2022). Language input in late infancy scaffolds emergent literacy skills and predicts reading related white matter development [Original Research]. *Frontiers in Human Neuroscience*, 16. <https://doi.org/10.3389/fnhum.2022.922552>
- ## 2021
- Brushe, M. E. (2021). The education word gap emerges by 18 months: findings from an Australian prospective study. *BMC Pediatrics*, 21(247). [https://doi.org/https://doi.org/10.1186/s12887-021-02712-1](https://doi.org/10.1186/s12887-021-02712-1)
- Clifford, B. N., Stockdale, L. A., Coyne, S. M., Rainey, V., & Benitez, V. L. (2021). Speaking of state of mind: Maternal mental health predicts children's home language environment and expressive language. *Journal of Child Language*, 1-17. <https://doi.org/10.1017/S0305000921000131>
- Cristia, A., Lavechin, M., Scaff, C., Soderstrom, M., Rowland, C., Räsänen, O., Bunce, J., & Bergelson, E. (2021). A thorough evaluation of the Language Environment Analysis (LENA) system. *Behavior Research Methods*, 53(2), 467-486. <https://doi.org/10.3758/s13428-020-01393-5>
- Donnelly, S., & Kidd, E. (2021). The longitudinal relationship between conversational turn-taking and vocabulary growth in early language development. *Child Development* doi: <https://doi.org/10.1111/cdev.13511>
- Gómez, E., & Strasser, K. (2021). Language and socioemotional development in early childhood: The role of conversational turns. Advance online publication. *Developmental Science*, e13109. doi: <https://doi.org/10.1111/desc.13109>
- Hersey, A., Hoffman, L., Tucker, R., & Vohr, B. (2021). Enhancing the NICU language environment with a neonatal cuddler program. *Journal of Perinatology*, 41, 2063–2071. <https://doi.org/10.1038/s41372-021-01037-2>
- King, L. S., Querdasi, F. R., Humphreys, K. L., & Gotlib, I. H. (2021). Dimensions of the language environment in infancy and symptoms of psychopathology in toddlerhood. Advance online publication. *Developmental Science*. doi: <https://doi.org/10.1111/desc.13082>
- Kondaurova, M. V., Zheng, Q., VanDam, M., & Kinney, K. (2021). Vocal turn-taking in families with children with and without hearing loss. *Ear and Hearing*. <https://doi.org/10.1097/AUD.0000000000001135>
- List, J. A., Pernaudet, J., & Suskind, D. L. (2021). Shifting parental beliefs about child development to foster parental investments and improve school readiness outcomes. *Nature Communications*, 12(1), 5765. <https://doi.org/10.1038/s41467-021-25964-y>
- Ma, Y., Jonsson, L., Feng, T., Weisberg, T., Shao, T., Yao, Z., Zhang, D., Dill, S.-E., Guo, Y., Zhang, Y., Friesen, D., & Rozelle, S. (2021). Variations in the home language environment and early language development in rural China. *International Journal of Environmental Research and Public Health*, 18(5), 2671. <https://doi.org/https://doi.org/10.3390/ijerph18052671>
- McDonald, M., Kwon, T., Kim, H., Lee, Y., & Ko, E.-S. (2021). Evaluating the Language ENvironment Analysis system for Korean. *Journal of Speech, Language, and Hearing Research*, 64, 792-808. doi: [https://doi.org/10.1044/2020\\_JSLHR-20-00489](https://doi.org/10.1044/2020_JSLHR-20-00489)
- Mitsven, S. G., Perry, L. K., Tao, Y., Elbaum, B. E., Johnson, N. F., & Messinger, D. S. (2021). Objectively measured teacher and preschooler vocalizations: Phonemic diversity is associated with language abilities. *Developmental Science*, 25(2), e13177. <https://doi.org/https://doi.org/10.1111/desc.13177>

- Piot, L., Havron, N., & Cristia, A. (2021). Socioeconomic status correlates with measures of Language Environment Analysis (LENA) system: a meta-analysis. *Journal of Child Language*, 1-15. <https://doi.org/doi:10.1017/S0305000921000441>
- Ramírez, N. F., Hippe, D.S., & Kuhl, P. K. (2021). Comparing automatic and manual measures of parent-infant conversational turns: A word of caution. *Child Development*, 92(2), 672-681. doi: <https://doi.org/10.1111/cdev.13495>
- Ramírez, N. F., Hippe, D. S., & Shapiro, N. T. (2021). Exposure to electronic media between 6 and 24 months of age: An exploratory study. *Infant Behavior and Development*, 63, 101549.
- Romeo, R., Leonard, J. A., Grotzinger, H. M., Robinson, S. T., Megumi, T. E., Mackey, A. P., Scherer, E., Rowe, M. L., West, M. R., & Gabrieli, J. D. E. (2021). Neuroplasticity associated with changes in conversational turn-taking following a family-based intervention. *Developmental Cognitive Neuroscience*, 49(100967). <https://doi.org/https://doi.org/10.1016/j.dcn.2021.100967>
- Shapiro, N. T., Hippe, D. S., & Ramírez, N. F. (2021). How chatty are daddies? An exploratory study of infants' language environments. *Journal of Speech, Language, and Hearing Research*, 64(8), 3242-3252. [https://doi.org/10.1044/2021\\_JSLHR-20-00727](https://doi.org/10.1044/2021_JSLHR-20-00727)
- Soderstrom, M. (2021). Analysis of children's everyday language experiences using longform audio: promises and pitfalls (Análisis de las experiencias lingüísticas cotidianas de niños y niñas utilizando audio de formato largo: posibles ventajas y dificultades). *Journal for the Study of Education and Development*, 44(2), 477-501. <https://doi.org/10.1080/02103702.2021.1888474>
- VanDam, M., Thompson, L., Wilson-Fowler, E., Campanella, S., Wolfenstein, K., & De Palma, P. (2021). Conversation initiation of mothers, fathers, and toddlers in their natural home environment. *Computer Speech & Language*. <https://doi.org/https://doi.org/10.1016/j.csl.2021.101338>
- Wang, Y., Cooke, M., Reed, J., Dilley, L., & Houston, D. M. (2021). Home auditory environments of children with cochlear implants and children with normal hearing. *Ear and Hearing*. <https://doi.org/10.1097/AUD.0000000000001124>

## 2020

- Beecher, C. C., & Van Pay, C. K. (2020). Investigation of the effectiveness of a community-based parent education program to engage families in increasing language interactions with their children. *Early Childhood Research Quarterly*, 53, 453-463. doi: <https://doi.org/10.1016/j.ecresq.2020.04.001>
- Brito, N. H., Troller-Renfree, S. V., Leon-Santos, A., Isler, J. R., Fifer, W. P., & Noble, K. G. (2020). Associations among the home language environment and neural activity during infancy. *Developmental Cognitive Neuroscience*, 43, 100780. doi: <https://doi.org/10.1016/j.dcn.2020.100780>
- Brushe, M. E., Lynch, J. W., Reilly, S., Melhuish, E., & Brinkman, S. A. (2020). How many words are Australian children hearing in the first year of life? *BMC Pediatrics*, 20(52). doi: <https://doi.org/10.1186/s12887-020-1946-0>
- Bruyneel, E., Demurie, E., Boterberg, S., Warreyn, P., & Roeyers, H. (2020). Validation of the Language ENvironment Analysis (LENA) system for Dutch. *Journal of Child Language*, 1-27. doi: [10.1017/S0305000920000525](https://doi.org/10.1017/S0305000920000525)
- Bulgarelli, F., & Bergelson, E. (2020). Look who's talking: A comparison of automated and human-generated speaker tags in naturalistic daylong recordings. *Behavior Research Methods*, 52, 641-653. doi: <https://doi.org/10.3758/s13428-019-01265-7>
- Cristia, A., Bulgarelli, F., & Bergelson, E. (2020). Accuracy of the Language Environment Analysis system segmentation and metrics: A systematic review. *Journal of Speech, Language, and Hearing Research*, 63(4), 1093-1105. doi: [https://doi.org/10.1044/2020\\_JSLHR-19-00017](https://doi.org/10.1044/2020_JSLHR-19-00017)
- Duncan, R. J., King, Y. A., Finders, J. K., Elcker, J., Schmitt, S. A., & Purpura, D. J. (2020). Prekindergarten classroom language environments and children's vocabulary skills. *Journal of Experimental Child Psychology*, 194, 104829. doi: <https://doi.org/10.1016/j.jecp.2020.104829>
- Elmquist, M., Finestack, L. H., Kriese, A., Lease, E. M., & McConnell, S. R. (2020). Parent education to improve early language development: A preliminary evaluation of LENA StartTM. *Journal of Child Language*, 1-29. doi: [10.1017/S0305000920000458](https://doi.org/10.1017/S0305000920000458)
- Fink, E., Browne, W. V., Kirk, I., & Hughes, C. (2020). Couple relationship quality and the infant home language environment: Gender-specific findings. *Journal of Family Psychology*, 34(2), 155-164. doi: <http://dx.doi.org/10.1037/fam0000590>
- Hoffman, L., Hersey, A., Tucker, R., & Vohr, B. (2020). Randomised control language intervention for infants of adolescent mothers. *Acta Paediatrica*, 1-10. doi: [10.1111/apa.15261](https://doi.org/10.1111/apa.15261)

- King, L. S., Camacho, C., Montez, D. F., Humphreys, K. L., & Gotlib, I. H. (2020). Naturalistic language input is associated with resting-state functional connectivity in infancy. *Advance online publication. The Journal of Neuroscience*. doi: <https://doi.org/10.1523/JNEUROSCI.0779-20.2020>
- Kishida, Y., & Kemp, C. (2020). Improving parents' interactions with children with hearing loss using data-based feedback. *International Journal of Disability, Development and Education*. doi: 10.1080/1034912X.2020.1767761
- Knight-McKenna, M., Hollingsworth, H. L., & Esposito, J. (2020). Strong beginnings for babies: Families' language stimulation of infants from low-income backgrounds. *Journal of Children and Poverty*. doi: 10.1080/10796126.2020.1764175
- Larson, A. L., Barrett, T. S., & McConnell, S. R. (2020). Exploring early childhood language environments: A comparison of language use, exposure, and interactions in the home and childcare settings. *Language, Speech, and Hearing Services in Schools*, 51(3), 706-719. doi: [https://doi.org/10.1044/2019\\_LSHSS-19-00066](https://doi.org/10.1044/2019_LSHSS-19-00066)
- Lehet, M., Arjmandi, M. K., Houston, D., & Dilley, L. (2020). Circumspection in using automated measures: Talker gender and addressee affect error rates for adult speech detection in the Language Environment Analysis (LENA) system. *Advance online publication. Behavior Research Methods*. doi: <https://doi.org/10.3758/s13428-020-01419-y>
- Leung, C. Y. Y., Hernandez, M. W., & Suskind, D. L. (2020). Enriching home language environment among families from low-SES backgrounds: A randomized controlled trial of a home visiting curriculum. *Early Child Research Quarterly*, 50, 24-35. doi: <https://doi.org/10.1016/j.ecresq.2018.12.005>
- Marchman, V. A., Weisleder, A., Hurtado, N., & Fernald, A. (2020). Accuracy of the Language Environment Analysis (LENA™) system for estimating child and adult speech in laboratory settings. *Journal of Child Language*, 1-16. doi: <https://doi.org/10.1017/S0305000920000380>
- McDaniel, J., Yoder, P., Estes, A. M., & Rogers, S. J. (2020). Predicting expressive language from early vocalizations in young children with autism spectrum disorder: Which vocal measure is best? *Journal of Speech, Language, and Hearing Research*, 63(5), 1509-1520. doi: [https://doi.org/10.1044/2020\\_JSLHR-19-00281](https://doi.org/10.1044/2020_JSLHR-19-00281)
- Merz, E. C., Maskus, E. A., Melvin, S. A., He, X., & Noble, K. G. (2020). Socioeconomic disparities in language input are associated with children's language-related brain structure and reading skills. *Child Development*, 91(3), 846-860. doi: <https://doi.org/10.1111/cdev.13239>
- Ramírez, N. F., Lytle, S. R., & Kuhl, P. K. (2020). Parent coaching increases conversational turns and advances infant language development. *Proceedings of the National Academy of Sciences*. doi: 10.1073/pnas.1921653117
- Sultana, N., Wong, L. L. N., & Purdy, S. C. (2020). Dataset on the calculations of daily adult word and conversational turn counts, and use of styles of oral interaction in 2-5-year olds with hearing loss in New Zealand. *Data in Brief*, 30(105372), 1-9. doi: <https://doi.org/10.1016/j.dib.2020.105372>
- Sultana, N., Wong, L. L. N., & Purdy, S. C. (2020). Natural language input: Maternal education, socioeconomic deprivation, and language outcomes in typically developing children. *Language, Speech, and Hearing Services in Schools*, 1-22. doi: [https://doi.org/10.1044/2020\\_LSHSS-19-00095](https://doi.org/10.1044/2020_LSHSS-19-00095)
- Wang, Y., Williams, R., Dilley, L., & Houston, D. M. (2020). A meta-analysis of the predictability of LENA™ automated measures for child language development. *Developmental Review*, 57, 100921. doi: <https://doi.org/10.1016/j.dr.2020.100921>
- Zhang, Y., Xu, X., Jiang, Y., Sun, W., Wang, Y., Song, Y., . . . Sheng, L. (2020). Early language and communication development in Chinese children: Adaption and validation of a parent report instrument. *Advance online publication. International Journal of Speech-Language Pathology*. doi: 10.1080/17549507.2020.1817558

## 2019

- Beecher, C. C., & Van Pay, C. K. (2019). Small talk: A community research collaboration to increase parental provision of language to children. *Child & Youth Care Forum*. doi: <https://doi.org/10.1007/s10566-019-09507-7>
- Benítez-Barrera, C. R., Thompson, E., Angley, G. P., Woynaroski, T., & Tharpe, A. M. (2019). Remote microphone system use at home: Impact on child-directed speech. *Journal of Speech, Language, and Hearing Research*, 62(6), 2002-2008. doi: [https://doi.org/10.1044/2019\\_JSLHR-H-18-0325](https://doi.org/10.1044/2019_JSLHR-H-18-0325)

- Christakis, D. A., Lowry, S. J., Goldberg, G., Violette, H., & Garrison, M. M. (2019). Assessment of a parent-child interaction intervention for language development in children. *JAMA Network Open*, 2(6), e195738-e195738. doi: 10.1001/jamanetworkopen.2019.5738
- d'Apice, K., Latham, R. M., & von Stumm, S. (2019). A naturalistic home observational approach to children's language, cognition, and behavior. *Developmental Psychology*, 55(7), 1414-1427. doi: <http://dx.doi.org/10.1037/dev0000733>
- Fields-Olivieri, M. A., & Cole, P. M. (2019). Sequences of toddler negative emotion and parent-toddler verbal communication during a waking day. *Infancy*, 24(6), 857-880. doi: <https://doi.org/10.1111/infra.12310>
- Jones, R. M., Skwerer, D. P., Pawar, R., Hamo, A., Carberry, C., Ajodan, E. L., ... Tager-Flusberg, H. (2019). How effective is LENA in detecting speech vocalizations and language produced by children and adolescents with ASD in different contexts? *Autism Research*, 12(4), 628-635. doi: <https://doi.org/10.1002/aur.2071>
- Liszka, L., Heiny, E., Smith, J., Schlaggar, B. L., Mathur, A., & Pineda, R. (2019). Auditory exposure of high-risk infants discharged from the NICU and the impact of social factors. *Acta Paediatrica*, 109(10), 2049-2056. doi: <https://doi.org/10.1111/apa.15209>
- Liszka, L., Smith, J., Mathur, A., Schlaggar, B. L., Colditz, G., & Pineda, R. (2019). Differences in early auditory exposure across neonatal environments. *Early Human Development*, 136, 27-32. doi: <https://doi.org/10.1016/j.earlhumdev.2019.07.001>
- Oller, D. K., Griebel, U., Iyer, S. N., Jhang, Y., Warlaumont, A. S., Dale, R., & Call, J. (2019). Language origins viewed in spontaneous and interactive vocal rates of human and bonobo infants. *Frontiers in Psychology*, 10, 729. doi: 10.3389/fpsyg.2019.00729
- Orena, A. J., Byers-Heinlein, K., & Polka, L. (2019). Reliability of the Language Environment Analysis recording system in analyzing French-English bilingual speech. *Journal of Speech, Language, and Hearing Research*, 62(7), 2491-2500. doi: [https://doi.org/10.1044/2019\\_JSLHR-L-18-0342](https://doi.org/10.1044/2019_JSLHR-L-18-0342)
- Reisinger, D. L., Shaffer, R. C., Pedapati, E. V., Dominick, K. C., & Erickson, C. A. (2019). A pilot quantitative evaluation of early life language development in Fragile X Syndrome. *Brain Sciences*, 9(2), 27-39. doi: <https://doi.org/10.3390/brainsci9020027>
- Sultana, N., Wong, L. L. N., & Purdy, S. C. (2019). Analysis of amount and style of oral interaction related to language outcomes in children with hearing loss: A systematic review (2006-2016). *Journal of Speech, Language, and Hearing Research*, 62(9), 3470-3492. doi: [https://doi.org/10.1044/2019\\_JSLHR-L-19-0076](https://doi.org/10.1044/2019_JSLHR-L-19-0076)
- Swanson, M., Donovan, K., Paterson, S., Wolff, J. J., Meera, S. S., Watson, L. R., ... Piven, J. (2019). Early language exposure supports later language skills in infants with and without autism. *Autism Research*, 12(12). doi: <https://doi.org/10.1002/aur.2163>
- VanDam, M., & Yoshinaga-Itano, C. (2019). Use of the LENA Autism screen with children who are deaf or hard of hearing. *Medicina*, 55(8), 495. doi: <https://doi.org/10.3390/medicina55080495>
- ## 2018
- Adams, K. A., Marchman, V. A., Loi, E. C., Ashland, M. D., Fernald, A., & Feldman, H. M. (2018). Caregiver talk and medical risk as predictors of language outcomes in fullterm and preterm toddlers. *Child Development*, 89(5), 1674-1690.
- Benítez-Barrera, C. R., Angley, G. P., & Tharpe, A. M. (2018). Remote microphone system use at home: Impact on caregiver talk. *Journal of Speech, Language, and Hearing Research*, 61(2), 399-409. doi: [https://doi.org/10.1044/2017\\_JSLHR-H-17-0168](https://doi.org/10.1044/2017_JSLHR-H-17-0168)
- Bergelson, E., Casillas, M., Soderstrom, M., Seidl, A., Warlaumont, A. S., & Amatuni, A. (2018). What do North American babies hear? A large-scale cross-corpus analysis. *Developmental Science*, 22(1), 1-12. doi: <https://doi.org/10.1111/desc.12724>
- Bredin-Oja, S. L., Fielding, H., Fleming, K. K., & Warren, S. F. (2018). Clinician vs. machine: Estimating vocalizations rates in young children with developmental disorders. *American Journal of Speech-Language Pathology*, 27(3), 1066-1072. doi: [https://doi.org/10.1044/2018\\_AJSLP-17-0016](https://doi.org/10.1044/2018_AJSLP-17-0016)
- Busch, T., Sangen, A., Vanpoucke, F., & van Wieringen, A. (2018). Correlation and agreement between Language ENvironment Analysis (LENA™) and manual transcription for Dutch natural language recordings. *Behavior Research Methods*, 50(5), 1921-1932. doi: <https://doi.org/10.3758/s13428-017-0960-0>
- Chen, L.-M., Oller, D. K., Lee, C.-C., & Liu, C.-T. J. (2018). LENA computerized automatic analysis of speech development from birth to three. *The 2018 Conference on Computational Linguistics and Speech Processing*, 158-168.

- Degotardi, S., Han, F., & Torr, J. (2018). Infants' experience with 'near and clear' educator talk: Individual variation and its relationship to indicators of quality. *International Journal of Early Years Education*, 26(3), 278-294. doi: 10.1080/09669760.2018.1479632
- Ganek, H., & Eriks-Brophy, A. (2018). A concise protocol for the validation of Language ENvironment Analysis (LENA) conversational turn counts in Vietnamese. *Communication Disorders Quarterly*, 39(2), 371-380.
- Ganek, H., & Eriks-Brophy, A. (2018). Language ENvironment analysis (LENA) system investigation of day long recordings in children: A literature review. *Journal of Communication Disorders*, 72, 77-85. [https://doi.org/https://doi.org/10.1016/j.jcomdis.2017.12.005](https://doi.org/10.1016/j.jcomdis.2017.12.005).
- Ganek, H., Smyth, R., Nixon, S., & Eriks-Brophy, A. (2018). Using the Language ENvironment Analysis (LENA) system to investigate cultural differences in conversational turn count. *Journal of Speech, Language, and Hearing Research*, 61, 2246-2258. doi: 10.1044/2018\_JSLHR-L-17-0370
- Gilkerson, J., Richards, J. A., Warren, S. F., Oller, D. K., Russo, R., & Vohr, B. (2018). Language experience in the second year of life and language outcomes in late childhood. *Pediatrics*, 142(4). doi: 10.1542/peds.2017-4276
- Greenwood, C. R., Schnitz, A. G., Irvin, D., Tsai, S. F., & Carta, J. J. (2018). Automated language environment analysis: A research synthesis. *American Journal of Speech-Language Pathology*, 27(2), 853-867. doi: 10.1044/2017\_AJSLP-17-0033
- Irvin, D. W., Bard, A., Wallisch, A., & Little, L. M. (2018). Measuring social communication in the community: Novel tools for advancing family participation. *The American Journal of Occupational Therapy*, 72(6), 7206205060p1-7206205060p7. doi: 10.5014/ajot.2018.026310
- Mahr, T., & Edwards, J. (2018). Using language input and lexical processing to predict vocabulary size. *Developmental Science*, 21(6), e12685.
- Ramírez, N. F., Lytle, S. R., Fish, M., & Kuhl, P. K. (2018). Parent coaching at 6 and 10 months improves language outcomes at 14 months: A randomized controlled trial. *Developmental Science*, 22(3). doi: <https://doi.org/10.1111/desc.12762>
- Romeo, R. R., Leonard, J. A., Robinson, S. T., West, M. R., Mackey, A. P., Rowe, M. L., & Gabrieli, J. D. E. (2018). Beyond the 30-million-word gap: Children's conversational exposure is associated with language-related brain function. *Psychological Science*, 29(5), 700-710. doi: <https://doi.org/10.1177/0956797617742725>
- Romeo, R. R., Segaran, J., Leonard, J. A., Robinson, S. T., West, M. R., Mackey, A. P., . . . Gabrieli, J. D. E. (2018). Language exposure relates to structural neural connectivity in childhood. *The Journal of Neuroscience*, 38(36), 7870-7877. doi: <https://doi.org/10.1523/JNEUROSCI.0484-18.2018>
- Rufsvold, R., Wang, Y., Hartman, M. C., Arora, S. B., & Smolen, E. R. (2018). The impact of language input on deaf and hard of hearing preschool children who use listening and spoken language. *American Annals of the Deaf*, 163(1), 35-60.
- Seidl, A., Cristia, A., Soderstrom, M., Ko, E.-S., Abel, E. A., Kellerman, A., & Schwichtenberg, A. J. (2018). Infant-mother acoustic-prosodic alignment and developmental risk. *Journal of Speech, Language, and Hearing Research*, 61(6), 1369-1380. doi: 10.1044/2018\_JSLHR-S-17-0287
- Soderstrom, M., Grauer, E., Dufault, B., & McDivitt, K. (2018). Influences of number of adults and adult: child ratios on the quantity of adult language input across childcare settings. *First Language*, 38(6), 563-581. doi: <https://doi.org/10.1177/0142723718785013>
- Swanson, M. (2018). Naturalistic language recordings reveal "hypervocal" infants at high familial risk for autism. *Child Development*, 89(2), e60-e73. [https://doi.org/https://doi.org/10.1111/cdev.12777](https://doi.org/10.1111/cdev.12777)
- Xu, H. Y., Stroud, J., Jozanovic, R. K., Clucas, J., Son, J. J., Koo, B., . . . Milham, M. P. (2018). Clinical perspective on passive audio vocal measurement in the evaluation of selective mutism. *Frontiers in Psychiatry*, 9, 443. doi: 10.3389/fpsyg.2018.00443

## 2017

- Gilkerson, J., Richards, J. A., Greenwood, C. R., & Montgomery, J. K. (2017). Language assessment in a snap: Monitoring progress up to 36 months. *Child Language Teaching and Therapy*, 33(2), 99-115. doi: 10.1177/0265659016660599
- Gilkerson, J., Richards, J. A., & Topping, K. (2017). Evaluation of a LENA-based online intervention for parents of young children. *Journal of Early Intervention*, 39(4), 281-298. doi: 10.1177/1053815117718490

- Gilkerson, J., Richards, J. A., & Topping, K. J. (2017). The impact of book reading in the early years on parent-child language interaction. *Journal of Early Childhood Literacy*, 17(1), 92-110. doi: 10.1177/1468798415608907
- Gilkerson, J., Richards, J. A., Warren, S. F., Montgomery, J. K., Greenwood, C. R., Oller, D. K., & Hansen, J. H. (2017). Mapping the early language environment using all-day recordings and automated analysis. *American Journal of Speech-Language Pathology*, 26(2), 248-265. doi: 10.1044/2016\_AJSLP-15-0169
- Greenwood, C. R., Carta, J. J., Walker, D., Watson-Thompson, J., Gilkerson, J., Larson, A. L., & Schnitz, A. (2017). Conceptualizing a public health prevention intervention for bridging the 30 million word gap. *Clinical Child and Family Psychology Review*, 20(1), 3-24. doi: 10.1007/s10567-017-0223-8
- Irvin, D. W., Crutchfield, S. A., Greenwood, C. R., Simpson, R. L., Sangwan, A., & Hansen, J. H. L. (2017). Exploring classroom behavioral imaging: Moving closer to effective and data-based early childhood inclusion planning. *Advances in Neurodevelopmental Disorders*, 1(2), 95-104. doi: <https://doi.org/10.1007/s41252-017-0014-8>
- Marchman, V. A., Martínez, L. Z., Hurtado, N., Grüter, T., & Fernald, A. (2017). Caregiver talk to young Spanish-English bilinguals: Comparing direct observation and parent-report measures of dual-language exposure. *Developmental Science*, 20(1), e12425. doi: 10.1111/desc.12425
- McGillion, M., Pine, J. M., Herbert, J. S., & Matthews, D. (2017). A randomised controlled trial to test the effect of promoting caregiver contingent talk on language development in infants from diverse socioeconomic status backgrounds. *Journal of Child Psychology and Psychiatry*, 58(10), 1122-1131. doi: <https://doi.org/10.1111/jcpp.12725>
- Paul, T. D., & Gilkerson, J. (2017). The talk gap. In R. Horowitz & S. J. Samuels (Eds.), *The achievement gap in reading: Complex, causes, persistent issues, possible solutions* (pp. 151-169). New York, Ny: Routledge.
- Pineda, R., Durant, P., Mathur, A., Inder, T., Wallendorf, M., & Schlaggar, B. L. (2017). Auditory exposure in the neonatal intensive care unit: Room type and other predictors. *Journal of Pediatrics*, 183, 56-66. doi: <https://doi.org/10.1016/j.jpeds.2016.12.072>
- Ramírez-Esparza, N., García-Sierra, A., & Kuhl, P. (2017). The impact of early social interactions on later language development in Spanish-English bilingual infants. *Child Development*, 88(4), 1216-1234. doi: 10.1111/cdev.12648
- Richards, J. A., Gilkerson, J., Xu, D., & Topping, K. (2017). How much do parents think they talk to their child? *Journal of Early Intervention*, 39(3), 163-179. doi: 10.1177/1053815117714567
- Richards, J. A., Xu, D., Gilkerson, J., Yapanel, U., Gray, S., & Paul, T. (2017). Automated assessment of child vocalization development using LENA. *Journal of Speech, Language, and Hearing Research*, 60(7), 2047-2063. doi: 10.1044/2017\_JSLHR-L-16-0157
- Schwarz, I.-C., Botros, N., Lord, A., Marcusson, A., Tidelius, H., & Marklund, E. (2017). The LENA™ system applied to Swedish: Reliability of the adult word count estimate. *Proceedings of Interspeech 2017*, 2088-2092. doi: 10.21437/Interspeech.2017-1287
- Wang, Y., Hartman, M. C., Abdul Aziz, N. A., Arora, S., Shi, L., & Tunison, E. (2017). A systematic review of the use of LENA technology. *American Annals of the Deaf*, 162(3), 295-311. doi: <https://doi.org/10.1353/aad.2017.0028>

## 2016

- Canault, M., Le Normand, M. T., Foudil, S., Loudon, N., & Thai-Van, H. (2016). Reliability of the Language ENvironment Analysis system (LENA™) in European French. *Behavior Research Methods*, 48(3), 1109-1124. doi: 10.3758/s13428-015-0634-8
- Charron, C., Fitzpatrick, E. M., McSweeney, E., Rabjohn, K., Somerville, R., & Steacie, P. (2016). Language ENvironment Analysis (LENA) with children with hearing loss: A clinical pilot. *Canadian Journal of Speech-Language Pathology and Audiology*, 40(1), 93-104.
- Garcia-Sierra, A., Ramírez-Esparza, N., & Kuhl, P. K. (2016). Relationships between quantity of language input and brain responses in bilingual and monolingual infants. *International Journal of Psychophysiology*, 110, 1-17. doi: <https://doi.org/10.1016/j.ijpsycho.2016.10.004>
- Ko, E.-S., Seidl, A., Cristia, A., Reimchen, M., & Soderstrom, M. (2016). Entrainment of prosody in the interaction of mothers with their young children. *Journal of Child Language*, 43(2), 284-309. doi: <https://doi.org/10.1017/S0305000915000203>

- Pae, S., Yoon, H., Seol, A., Gilkerson, J., Richards, J. A., Ma, L., & Topping, K. (2016). Effects of feedback on parent-child language with infants and toddlers in Korea. *First Language*, 36(6), 549-569. doi: 10.1177/0142723716649273
- Sosa, A. V. (2016). Association of the type of toy used during play with the quantity and quality of parent-infant communication. *JAMA Pediatrics*, 170(2), 132-137. doi: 10.1001/jamapediatrics2015.3753
- Suskind, D. L., Graf, E., Leffel, K. R., Hernandez, M. W., Suskind, E., Webber, R., . . . Nevins, M. E. (2016). Project ASPIRE: Spoken language intervention curriculum for parents of low-socioeconomic status and their deaf and hard-of-hearing children. *Ontology & Neurotology*, 37(2), e110-e117. doi: 10.1097/MAO.0000000000000931
- Suskind, D. L., Leffel, K. R., Graf, E., Hernandez, M. W., Gunderson, E. A., Sapovich, S. G., . . . Levine, S. C. (2016). A parent-directed language intervention for children of low socioeconomic status: A randomized controlled pilot study. *Journal of Child Language*, 43(2), 366-406. doi: 10.1017/S0305000915000033
- Susperreguy, M. I., & Davis-Kean, P. E. (2016). Maternal math talk in the home and math skills in preschool children. *Early Education & Development*, 27(6), 841-857. doi: 10.1080/10409289.2016.1148480
- VanDam, M., & Silbert, N. H. (2016). Fidelity of automatic speech processing for adult and child talker classifications. *PLoS ONE*, 11(8), 1-8. doi: <https://doi.org/10.1371/journal.pone.0160588>
- VanDam, M., Warlaumont, A. S., Bergelson, E., Cristia, A., Soderstrom, M., De Palma, P., & MacWhinney, B. (2016). HomeBank: An online repository of daylong child-centered audio recordings. *Seminars in Speech and Language*, 37(2), 128-141. doi: <http://dx.doi.org/10.1055/s-0036-1580745>
- Wood, C., Diehm, E. A., & Callender, M. F. (2016). An investigation of language environment analysis measures for Spanish-English bilingual preschoolers from migrant low-socioeconomic-status backgrounds. *Language, Speech, and Hearing Services in Schools*, 47(2), 123-134. doi: 10.1044/2015\_LSHSS-14-0115
- Woynaroski, T., Oller, D. K., Keceli-Kaysili, B., Xu, D., Richards, J. A., Gilkerson, J., . . . Yoder, P. (2016). The stability and validity of automated vocal analysis in preverbal preschoolers with autism spectrum disorder. *Autism Research*, 10(3), 508-519. doi: 10.1002/aur.1667
- ## 2015
- Gilkerson, J., Zhang, Y., Xu, D., Richards, J. A., Xu, X., Jiang, F., . . . Topping, K. (2015). Evaluating LENA System performance for Chinese: A pilot study in Shanghai. *Journal of Speech, Language, and Hearing Research*, 58(2), 445-452. doi: 10.1044/2015\_JSLHR-L-14-0014
- Kashinath, S., Pearman, A., & Canales, A. (2015). Using technology to facilitate authentic assessment of bilingual preschool children. *Perspectives on Communication Disorders and Sciences in Culturally and Linguistically Diverse Populations*, 22(1), 15-24. doi: 10.1044/cds22.1.15
- Odean, R., Nazareth, A., & Pruden, S. M. (2015). Novel methodology to examine cognitive and experiential factors in language development: Combining eye-tracking and LENA technology. *Frontiers in Psychology*, 6(1266). doi: 10.3389/fpsyg.2015.01266
- Pae, S., Yoon, H., Seol, A., & Gilkerson, J. (2015). The validity and reliability of the Korean version of the Developmental Snapshot. *Communication Sciences & Disorders*, 20(3), 355-363. doi: <http://dx.doi.org/10.12963/csd.15253>
- Sangwan, A., Hansen, J. H. L., Irvin, D. W., Crutchfield, S., & Greenwood, C. R. (2015). Studying the relationship between physical and language environments of children: Who's speaking to whom and where? *Signal Processing and Signal Processing Education Workshop (SP/SPE), 2015 IEEE*. doi: 10.1109/DSP-SPE.2015.7369526
- VanDam, M., Oller, D. K., Ambrose, S. E., Gray, S., Richards, J. A., Xu, D., . . . Moeller, M. P. (2015). Automated vocal analysis of children with hearing loss and their typical and atypical peers. *Ear and Hearing*, 36(4), e146-e152. doi: 10.1097/AUD.0000000000000138
- Zhang, Y., Xu, X., Jiang, F., Gilkerson, J., Xu, D., Richards, J. A., . . . Topping, K. J. (2015). Effects of quantitative linguistic feedback to caregivers of young children: A pilot study in China. *Communication Disorders Quarterly*, 37(1), 16-24. doi: 10.1177/1525740115575771

## 2014

- Abney, D. H., Warlaumont, A., Haussman, A., Ross, J. M., & Wallot, S. (2014). Using nonlinear methods to quantify changes in infant limb movements and vocalizations. *Frontiers in Psychology*, 5:771, 1-15. doi: 10.3389/fpsyg.2014.00771
- Ambrose, S. E., VanDam, M., & Moeller, M. P. (2014). Linguistic input, electronic media, and communication outcomes of toddlers with hearing loss. *Ear and Hearing*, 35(2), 139-147. doi: 10.1097/AUD.0b013e3182a76768
- Carr, J., Xu, D., & Yoshinaga-Itano, C. (2014). Language ENvironment Analysis language and autism screen and the child development inventory social subscale as a possible autism screen for children who are deaf or hard of hearing. *Seminars in Speech and Language*, 35(4), 266-275. doi: <http://dx.doi.org/10.1055/s-0034-1389099>
- Caskey, M., Stephens, B., Tucker, R., & Vohr, B. (2014). Adult talk in the NICU with preterm infants and developmental outcomes. *Pediatrics*, 133(3), 1-7. doi: 10.1542/peds.2013-0104
- Charlton, J. J. V., & Law, J. (2014). The story in a box: Measuring the online communication behaviours of children identified as having emotional and behavioural difficulties using LENA and Noldus Observer. *Emotional and Behavioural Difficulties*, 19(1), 41-58. doi: 10.1080/13632752.2013.854957
- Jackson, C. W., & Callender, M. F. (2014). Environmental considerations: Home and school comparison of Spanish-English speakers' vocalizations. *Topics in Early Childhood Special Education*, 34(3), 165-174. doi: 10.1177/0271121414536623
- Jin, Y. S., Seong, I. K., Lee, H. S., & Pae, S. (2014). Parent education program on social communication skills of preterm toddlers. *Korean Journal of Early Childhood Special Education*, 14(4), 121-142.
- Johnson, K., Caskey, M., Rand, K., Tucker, R., & Vohr, B. (2014). Gender differences in adult-infant communication in the first months of life. *Pediatrics*, 134(6), e1603-1610. doi: 10.1542/peds.2013-4289
- Li, L., Vikani, A. R., Harris, G. C., & Lin, F. R. (2014). Feasibility study to quantify the auditory and social environment of older adults using a Digital Language Processor. *Otology & Neurotology*, 35(8), 1301-1305. doi: 10.1097/MAO.0000000000000489
- Ramírez-Esparza, N., García-Sierra, A., & Kuhl, P. K. (2014). Look who's talking: Speech style and social context in language input to infants are linked to concurrent and future speech development. *Developmental Science*, 17(5), 1-12. doi: 10.1111/desc.12172
- Sacks, C., Shay, S., Repplinger, L., Leffel, K. R., Saplich, S. G., Suskind, E., . . . Suskind, D. (2014). Pilot testing of a parent-directed intervention (Project ASPIRE) for underserved children who are deaf or hard of hearing. *Child Language Teaching and Therapy*, 30(1), 91-102. doi: 10.1177/0265659013494873
- Thiemann-Bourque, K. S., Warren, S. F., Brady, N., Gilkerson, J., & Richards, J. A. (2014). Vocal interaction between children with Down syndrome and their parents. *American Journal of Speech-Language Pathology*, 23, 437-447. doi: 10.1044/2014\_AJSLP-12-0010
- VanDam, M. (2014). Acoustic characteristics of the clothes used for a wearable recording device. *The Journal of the Acoustical Society of America*, 136(4), EL263-EL267. doi: <http://dx.doi.org/10.1121/1.4895015>
- Vohr, B. R., Topol, D., Watson, V., St Pierre, L., & Tucker, R. (2014). The importance of language in the home for school age children with permanent hearing loss. *Acta Paediatrica*, 103(1), 62-69. doi: 10.1111/apa.12441
- Wang, Z., Pan, X., Miller, K. F., & Cortina, K. S. (2014). Automatic classification of activities in classroom discourse. *Computers & Education*, 78, 115-123. doi: 10.1016/j.compedu.2014.05.010
- Warlaumont, A., Richards, J. A., Gilkerson, J., & Oller, D. K. (2014). A social feedback loop for speech development and its reduction in autism. *Psychological Science*, 25(7), 1314-1324. doi: 10.1177/0956797614531023
- Xu, D., Richards, J. A., & Gilkerson, J. (2014). Automated analysis of child phonetic production using naturalistic recordings. *Journal of Speech, Language, and Hearing Research*, 57(5), 1638-1650. doi: 10.1044/2014\_JSLHR-S-13-0037

## 2013

- Burgess, S., Audet, L., & Harjusola-Webb, S. (2013). Quantitative and qualitative characteristics of the school and home language environments of preschool-aged children with ASD. *Journal of Communication Disorders*, 46(5-6), 428-439. doi: 10.1016/j.jcomdis.2013.09.003
- Caskey, M., & Vohr, B. (2013). Assessing language and language environment of high risk infants and children: A new approach. *Acta Paediatrica*, 102(03), 1-11. doi: 10.1111/apa.12195
- Irvin, D. W., Hume, K., Boyd, B. A., McBee, M. T., & Odom, S. L. (2013). Child and classroom characteristics associated with the adult language provided to preschoolers with autism spectrum disorder. *Research in Autism Spectrum Disorders*, 7(8), 947-955. doi: 10.1016/j.rasd.2013.04.004
- McDaniel, R., & Purdy, S. C. (2013). Using the Language ENvironment Analysis (LENA™) system to investigate the language environment and outcomes of deaf children: A pilot study. *New Zealand Journal of Speech-Language Therapy*, 67, 31-47.
- Ota, C. L., & Austin, A. M. B. (2013). Training and mentoring: Family child care providers' use of linguistic inputs in conversations with children. *Early Childhood Research Quarterly*, 28(4), 972-983. doi: http://doi.org/10.1016/j.ecresq.2013.04.001
- Soderstrom, M., & Wittebolle, K. (2013). When do caregivers talk? The influences of activity and time of day on caregiver speech and child vocalizations in two childcare environments. *PLoS ONE*, 8(11). doi: 10.1371/journal.pone.0080646
- Suskind, D., Leffel, K. R., Hernandez, M. W., Sapovich, S. G., Suskind, E., Kirkham, E., & Meehan, P. (2013). An exploratory study of "quantitative linguistic feedback": Effect of LENA feedback on adult language production. *Communication Disorders Quarterly*, 34(2), 1-11. doi: 10.1177/1525740112473146
- VanDam, M., & Silbert, N. H. (2013). Precision and error of automatic speech recognition. *Proceedings of Meetings on Acoustics*, 19, 060006. doi: 10.1121/1.4798466
- Wang, Z., Miller, K., & Cortina, K. (2013). Using the LENA in teacher training: Promoting student involvement through automated feedback. *Unterrichtswissenschaft*, 41(4), 290-305.
- Weisleder, A., & Fernald, A. (2013). Talking to children matters: Early language experience strengthens processing and builds vocabulary. *Psychological Science*, 24(11), 2143-2152. doi: 10.1177/0956797613488145
- Yoder, P. J., Oller, D. K., Richards, J. A., Gray, S., & Gilkerson, J. (2013). Stability and validity of an automated measure of vocal development from day-long samples in children with and without Autism Spectrum Disorder. *Autism Research*, 6(2), 103-107. doi: 10.1002/aur.1271

## 2012

- Aragon, M., & Yoshinaga-Itano, C. (2012). Using Language ENvironment Analysis to improve outcomes for children who are deaf or hard of hearing. *Seminars in Speech and Language*, 33(04), 340-353. doi:10.1055/s-0032-1326918
- Dykstra, J., Sabatos-DeVito, M. G., Irvin, D. W., Boyd, B. A., Hume, K. A., & Odom, S. L. (2012). Using the Language Environment Analysis (LENA) system in preschool classrooms with children with autism spectrum disorders. *Autism*, 17(6), 582-594. doi: 10.1177/1362361312446206
- VanDam, M., Ambrose, S. E., & Moeller, M. P. (2012). Quantity of parental language in the home environments of hard-of-hearing 2-year-olds. *Journal of Deaf Studies and Deaf Education*. 17(4), 402-420. doi:10.1093/deafed/ens025
- Wiggin, M., Gabbard, S., Thompson, N., Goberis, D., & Yoshinaga-Itano, C. (2012). The school to home link: Summer preschool and parents. *Seminars in Speech and Language*, 33(04), 290-296. doi:10.1055/s-0032-1326919
- Xu, X., Zhang, Y., Mao, H., Xin, Y., & Xiao, L. (2012). The correlation of infants' and toddlers' responsiveness with language and cognitive development in Han-language families. *Chinese Journal of Evidence-Based Pediatrics*, 7(6), 435-439. doi:10.3969

## 2011

Caskey, M., Stephens, B., Tucker, R., & Vohr, B. (2011). Importance of parent talk on the development of preterm infant vocalizations. *Pediatrics*, 128(5), 910-916. doi: 10.1542/peds.2011-0609

Greenwood, C. R., Thiemann-Bourque, K., Walker, D., Buzhardt, J., & Gilkerson, J. (2011). Assessing children's home language environments using automatic speech recognition technology. *Communication Disorders Quarterly*, 32(2), 83-92. doi: 10.1177/1525740110367826

## 2010

Oller, D. K. (2010). All-day recordings to investigate vocabulary development: A case study of a trilingual toddler. *Communication Disorders Quarterly*, 31(4), 213-222. doi:10.1177/1525740109358628

Oller, D. K., Niyogi, P., Gray, S., Richards, J. A., Gilkerson, J., Xu, D., ... Warren, S. F. (2010). Automated vocal analysis of naturalistic recordings from children with autism, language delay, and typical development. *Proceedings of the National Academy of Sciences*, 107(30), 13354-13359. doi:10.1073/pnas.1003882107 [This article contains supporting information online at www.pnas.org/lookup/suppl/doi:10.1073/pnas.1003882107/-/DCSupplemental]

Warlaumont, A. S., Oller, D. K., Dale, R., Richards, J. A., Gilkerson, J., & Xu, D. (2010). Vocal interaction dynamics of children with and without autism. *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, 121-126.

Warren, S. F., Gilkerson, J., Richards, J. A., Oller, D. K., Xu, D., Yapanel, U., & Gray, S. (2010). What automated vocal analysis reveals about the vocal production and language learning environment of young children with autism. *Journal of Autism and Developmental Disorders*, 40(5), 555-569. doi:10.1007/s10803-009-0902-5

Weil, L. W., & Middleton, L. (2010). Use of the LENA tool to evaluate the effectiveness of a parent intervention program. *Perspectives on Language Learning and Education*, 17, 108-111. doi:10.1044/lle17.3.108

## 2009

Christakis, D. A., Gilkerson, J., Richards, J. A., Zimmerman, F. J., Garrison, M. M., Xu, D., ... Yapanel, U. (2009). Audible television and decreased adult words, infant vocalizations, and conversational turns: a population-based study. *Archives of Pediatrics & Adolescent Medicine*, 163(6), 554-558. doi: 10.1001/archpediatrics.2009.61

Xu, D., Gilkerson, J., Richards, J. A., Yapanel, U., & Gray, S. (2009). Child vocalization composition as discriminant information for automatic autism detection. *Proceedings of the 2009 International Conference of the IEEE Engineering in Medicine and Biology Society*, 2518-2522. doi:10.1109/IEMBS.2009.5334846

Xu, D., Richards, J. A., Gilkerson, J., Yapanel, U., Gray, S., & Hansen, J. (2009). Automatic childhood autism detection by vocalization decomposition with phone-like units. *WOCCI '09 Proceedings of the 2nd Workshop on Child, Computer and Interaction*. doi:10.1145/1640377.1640382

Yapanel, U., Xu, D., Hansen, J., Gray, S., Gilkerson, J., & Richards, J. A. (2009). Preliminary study of stress/neutral detection on recordings of children in the natural home environment. *WOCCI '09 Proceedings of the 2nd Workshop on Child, Computer and Interaction*. doi:10.1145/1640377.1640394

Zimmerman, F. J., Gilkerson, J., Richards, J. A., Christakis, D. A., Xu, D., Gray, S., & Yapanel, U. (2009). Teaching by listening: The importance of adult-child conversations to language development. *Pediatrics*, 124(1), 342-349. doi:10.1542/peds.2008-2267

## 2008

Xu, D., Yapanel, U., Gray, S., Gilkerson, J., Richards, J. A., & Hansen, J. (2008). Signal processing for young child speech language development. *Proceedings of the 1st Workshop of Child, Computer and Interaction*.