

CURRICULUM VITAE

Rochelle S. Newman

Affiliations

Department of Hearing and Speech Sciences, University of Maryland at College Park
Program in Neuroscience and Cognitive Science, University of Maryland at College Park
Maryland Language Science Center

Education

- 1997 Ph.D. State University of New York at Buffalo, Buffalo, NY, Department of Psychology
Dissertation: “Individual differences and the link between speech perception and speech production” (Advisor: James R. Sawusch)
- 1995 M.A. State University of New York at Buffalo, Buffalo, NY, Department of Psychology
Capstone Project: “The role of resemblance and remoteness on rate normalization in speech perception” (Advisor: James R. Sawusch)
- 1991 B.S.S. (Bachelor of Science in Speech) Northwestern University, Evanston, IL

Positions and Employment

- 1991-1997 Graduate Research Asst., Dept. of Psychology, State University of New York at Buffalo
- 1997-2001 Assistant Professor, Department of Psychology, University of Iowa
- 2001-2007 Assistant Professor, Department of Hearing & Speech Sciences, University of Maryland
- 2005-2017 Research Affiliate, Center for the Advanced Study of Language
- 2007-2013 Associate Professor, Department of Hearing & Speech Sciences, University of Maryland
- 2008-2014 Director of Graduate Studies, Dept. of Hearing & Speech Sciences, University of Maryland
- 2012-2014 Director of Graduate Studies, Program in Neuroscience and Cognitive Science, Univ. MD
- 2013-2014 Professor, Department of Hearing & Speech Sciences, University of Maryland
- 2013-present Associate Director, Language Science Center, University of Maryland
- 2014-present Chair, Department of Hearing & Speech Sciences, University of Maryland
- 2015-present Advisory Board, Comparative and Evolutionary Biology of Hearing, U. of Maryland
- 2015-present Executive Board, Graduate Field Committee in Developmental Science, U. of Maryland
- 2017-present Executive Board, Maryland Cochlear Implant Center of Excellence
- 2021-present Chair-Elect, University of Maryland Campus Senate

Peer-Reviewed Publications

First author has intellectual leadership unless otherwise noted.

* = mentored as graduate student (MA, AuD or PhD)

** = mentored as undergraduate student

*** = mentored as high school intern

1. Newman, R. S. & Jusczyk, P. W. (1996). The cocktail party effect in infants. *Perception & Psychophysics*, 58 (8), 1145-1156.
2. Newman, R. S. & Sawusch, J. R. (1996). Perceptual normalization for speaking rate: Effects of temporal distance. *Perception & Psychophysics*, 58(4), 540-560.
3. Newman, R. S., Sawusch, J. R. & Luce, P. A. (1997). Lexical neighborhood effects in phonetic processing. *Journal of Experimental Psychology: Human Perception and Performance*, 23(3), 873-889.
4. Newman, R. S., Sawusch, J. R. & Luce, P. A. (1999). Underspecification and phoneme frequency in speech perception. In M. Broe & J. Pierrehumbert (Eds.), *Papers in Laboratory Phonology V: Language Acquisition and the Lexicon*, pp. 298-311. Cambridge, UK: Cambridge University Press.
5. Barker*, B. A. & Newman, R. S. (2000). The cocktail party effect in infants: Following one's mother's voice. *Proceedings of the 24th annual Boston University Conference on Language Development*, p. 92-103.
6. Newman, R. S. (2000). The use of rate normalization to investigate the basic units of speech. In S. J. Billings, J. P. Boyle, and A. M. Griffith (Eds.) *Chicago Linguistics Society, Volume 35: The panels*. Chicago: Chicago Linguistic Society.
7. Newman, R. S. (2000) Not all neighborhood effects are created equal. *Behavioral and Brain Sciences*, 23 (3), 343. (commentary).
8. Sawusch, J. R. & Newman, R. S. (2000). Perceptual normalization for speaking rate II: Effects of signal discontinuities. *Perception & Psychophysics*, 62(2), 285-300.
9. Newman, R. S., Clouse**, S. A. & Burnham**, J. (2001). The perceptual consequences of acoustic variability in fricative production within and across talkers. *Journal of the Acoustical Society of America*, 109(3), 1181-1196.
10. Newman, R. S. & German, D. J. (2002). Effects of lexical factors on word naming among normal-learning children and children with word-finding disorders. *Language and Speech*, 43(3), 285-317.
11. Newman, R. S. (2003). Prosodic differences in mothers' speech to toddlers in quiet and noisy environments. *Applied Psycholinguistics*, 24, 539-560.
12. Newman, R. S. (2003). Using links between speech perception and speech production to evaluate different acoustic metrics: A preliminary report. *Journal of the Acoustical Society of America*, 113(5), 2850-2860.
13. Weppelman**, T. L., Bostow**, A., Schiffer**, R., Elbert-Perez**, E. & Newman, R. S. (2003). Children's use of the prosodic characteristics of infant-directed speech. *Language and Communication*, 23(1), 63-80.
14. German, D. J. & Newman, R. S. (2004). The impact of lexical factors on children's word finding errors. *Journal of Speech, Language and Hearing Research*, 47 (3), 624-636.
15. Newman, R. S. (2004). Perceptual restoration in children versus adults. *Applied Psycholinguistics*, 25, 481-493.
16. Barker*, B. A. & Newman, R. S. (2004). Listen to your mother! The role of talker familiarity in infant streaming. *Cognition*, 94(2), B45-53.
17. Gupta, P., Lipinski, J., Abbs, B., Lin, P.-H., Aktunc, M. E., Ludden, D., Martin, N. & Newman, R. (2004). Space aliens and nonwords: Stimuli for investigating the learning of novel word-meaning pairs. *Behavior Research Methods, Instruments, and Computers*, 36(4), 599-603.
18. Newman, R. S. (2005). The cocktail party effect in infants revisited: Listening to one's name in noise. *Developmental Psychology*, 41(2), 352-362.

19. Hollich, G., Newman, R. S. & Jusczyk, P. W. (2005). Infants' use of synchronized visual information to separate streams of speech. *Child Development*, 76(3), 598-613.
20. Newman, R. S., Sawusch, J. R. & Luce, P. A. (2005). Do post-onset segments define a lexical neighborhood? *Memory & Cognition*, 33(6), 941-960.
21. Newman, R. S. & German, D. J. (2005). Lifespan effects of lexical factors on oral naming. *Language and Speech*, 48(2), 123-156.
22. Newman, R. S. & Hussain**, I. (2006). Changes in preference for infant-directed speech in low and moderate noise by 4.5- to 13-month-olds. *Infancy*, 10(1), 61-76.
23. Newman, R. S., Bernstein Ratner, N., Jusczyk, A. M., Jusczyk, P. W. & Dow, K. A. (2006). Infants' early ability to segment the conversational speech signal predicts later language development: A retrospective analysis. *Developmental Psychology*, 42(4), 643-655.
24. Newman, R.S. (2006). Perceptual restoration in toddlers. *Perception & Psychophysics*, 68, 625-642.
25. Newman, R. S. & Evers**, S. E. (2007). The role of talker familiarity on stream segregation. *Journal of Phonetics*, 35, 85-103.
26. Newman, R. S. & Bernstein Ratner, N. (2007). The role of selected lexical factors on confrontation naming accuracy, speed and fluency in adults who do and do not stutter. *Journal of Speech, Language, and Hearing Research*, 50, 196-213.
27. German, D. J. & Newman, R. S. (2007). Oral reading skills of children with oral language (word finding) difficulties. *Reading Psychology*, 28(5), 397-442.
28. Newman, R. & Bernstein Ratner, N. (2007). Factors that affect naming in adults and children who stutter. In J. Au-Yeung & M. Leahy (eds.) *Proceedings of the 5th World Congress on Fluency Disorders* (pp. 136-140). Dublin: International Fluency Association.
29. Newman, R.S. (2008). The level of detail in infants' word learning. *Current Directions in Psychological Science*, 17(3), 229-232.
30. Newman, R. S. & Sawusch, J. R. (2009). Perceptual normalization for speaking rate III: Effects of the rate of one voice on perception of another. *J. Phonetics*, 37(1), 46-65.
31. Newman, R., Samuelson, L. & Gupta, P. (2009). Learning novel neighbors: distributed mappings help children and connectionist models. In *Proceedings of CogSci2008*, pp. 29-34. Austin, TX: Cognitive Science Society.
32. Newman, R. S. (2009). Infant's listening in multitalker environments: Effect of the number of background talkers. *Attention, Perception & Psychophysics*, 71, 822-836.
33. Bernstein Ratner, N., Newman, R., & Streckas*, A. (2009). Effects of word frequency and phonological neighborhood characteristics on confrontation naming in children who stutter and normally fluent peers. *J. of Fluency Disorders*, 34, 225-241.
34. Newman, R. (2011). 2-year-olds' speech understanding in multi-talker environments. *Infancy*, 16(5), 447-470.
35. Newman, R., Sawusch, J. R. & Wunnenberg**, T. (2011). Cues and cue interactions in segmenting words in fluent speech. *Journal of Memory and Language*, 64(4), 460-476.

36. Panneton, R. & Newman, R. S. (2012). Development of speech perception. In R. Fay, A. Popper & L. Werner (Eds.), *Human Auditory Development*, Springer Handbook of Auditory Research. New York: Springer-Verlag
37. Newman, R. & Sachs, J. (2012). Communication Development in Infancy. In *The Development of Language*, J. Berko Gleason & N. Bernstein Ratner, 8th edition.
38. Michael*, S., Bernstein Ratner, N., & Newman, R. S. (2012). Verb comprehension and use in children and adults with Down syndrome. *Journal of Speech, Language, and Hearing Research*, 55(6), 1736-1749.
39. Newman, R. S. & Chatterjee, M. (2013). Toddlers' recognition of noise-vocoded speech. *Journal of the Acoustical Society of America*, 133(1), 483-494.
40. Newman, R. S., Chatterjee, M., Morini*, G. & Nasuta**, M. (2013). Toddlers' comprehension of noise-vocoded speech and sine-wave analogs to speech. *Proceedings of Meetings on Acoustics*, 19, pp. 060077.
41. Heffner*, C. & Newman, R. S. (2013). Canadian oats and Canadian goats: Comparing distal cues to segmentation and segments. *Proceedings of Meetings on Acoustics*, 19, pp. 060295.
42. Newman, R. S., Morini*, G. & Chatterjee, M. (2013). Infants' name recognition in on- and off-channel noise. *Journal of the Acoustical Society of America*, 133(5), EL377-EL383.
43. Janse, E. & Newman, R. S. (2013). Identifying nonwords: Effects of lexical neighborhoods, phonotactic probability, and listener characteristics. *Language & Speech*, 56(4), 421-441.
44. Dombroski**, J. & Newman, R. S. (2014). Toddlers' ability to map the meaning of new words in multi-talker environments. *Journal of the Acoustical Society of America*, 136(5), 2087-2815.
45. Bail*, A., Morini*, G. & Newman, R. S. (2015). Look at the gato! Code-switching in speech to toddlers. *Journal of Child Language*, 42(5), 1073-1101.
46. Ross-Sheehy, S. & Newman, R. S. (2015). Infant auditory short-term memory for nonlinguistic sounds. *Journal of Experimental Child Psychology*, 132, 51-64.
47. Segal*, J. & Newman, R. S. (2015). Infant preferences for structure and prosodic properties of infant-directed speech in the second year of life. *Infancy*, 20, 339-351.
48. Torrington Eaton*, C., Newman, R. S., Bernstein Ratner, N., & Rowe, M. (2015). Non-word repetition in two-year-olds: replication of an adapted paradigm and a useful methodological extension. *Clinical Linguistics & Phonetics*, 29(7), 523-535.
49. Newman, R.S., Morini*, G., Ahsan***, F., & Kidd, G. Jr. (2015). Linguistically-based informational masking in preschool children. *Journal of the Acoustical Society of America*, 138, EL93-EL98.
50. Heffner*, C.C., Newman, R.S., Dille, L.C., Idsardi, W. J. (2015). Age-related differences in speech rate perception do not necessarily entail age-related differences in speech rate use. *J Speech Lang Hear Res.*, 58(4), 1341-1349. doi: 10.1044/2015_JSLHR-H-14-0239. PubMed PMID: 25860652.
51. Newman, R. S., Chatterjee, M., Morini, G. & Remez, R. E. (2015). Toddlers' comprehension of degraded signals: noise-vocoded vs. sine-wave analogs. *Journal of the Acoustical Society of America*, 138(3), EL311-EL317.

52. Newman, R.S., Rowe, M. & Bernstein Ratner, N. (2016). Input and uptake at 7 months predicts toddler vocabulary: The role of child-directed-speech and infant processing skills in language development. *Journal of Child Language*, 43(5), 1158-1173.
Selected by Cambridge University Press as a top article for 2016.
53. Newman, R. S. (2016). Lexical access across talkers. *Language, Cognition, and Neuroscience*, 31(6), 709-727.
54. Hartman*, K. M., Bernstein Ratner, N. & Newman, R. S. (2016). Infant-directed speech (IDS) vowel clarity and child language outcomes. *Journal of Child Language*, 44(5), 1140-1162. doi: 10.1017/S0305000916000520. PubMed PMID: 27978860.
55. Newman, R. S. (2016). Communication Development in Infancy. In *The Development of Language*, J. Berko Gleason & N. Bernstein Ratner, 9th edition, pp. 26-44. Boston: Pearson.
56. Heffner*, C. C., Newman, R. S. & Idsardi, W. (2017). Support for context effects on segmentation and segments depends on the context. *Attention, Perception & Psychophysics*, 79, 964-988. PubMed PMID: 28097505.
57. Renzi*, D. T., Romberg, A. R., Bolger, D. J. & Newman, R. S. (2017). Two minds are better than one: Cooperative communication as a new framework for understanding infant language learning. *Translational Issues in Psychological Science; Special Issue: Translating Research to Practice in the Language Sciences*, 3(1), 19-33.
58. Stockbridge*, M. D. & Newman, R. S. (2017). Translating neurodevelopmental findings into predicted outcomes and treatment recommendations for language skills in children and young adults with brain injury. *Translational Issues in Psychological Science; Special Issue: Translating Research to Practice in the Language Sciences*, 3(1), 104-113.
59. Mallikarjun*, A., Newman, R. S. & Novick, J.M. (2017). Exploiting the interconnected lexicon: Bootstrapping English language learning in young Spanish speakers. *Translational Issues in Psychological Science; Special Issue: Translating Research to Practice in the Language Sciences*, 3(1), 34-47.
60. Newman, R.S. & Morini, G. (2017). Effect of the relationship between target and masker sex on infants' recognition of speech. *Journal of the Acoustical Society of America*, 141(2). EL164-169.
61. Lin*, C., Wang, M., Newman, R. S. & Li*, C. (2017). The development of stress sensitivity and its contribution to word reading in school-aged children. To appear in *Journal of Research in Reading*. DOI: 10.1111/1467-9817.12094 (Online ahead of print)
62. Jaekel*, B. N., Newman, R.S., & Goupell, M. J. (2017). Speech rate normalization and phonemic boundary perception in cochlear-implant users. *Journal of Speech, Language, and Hearing Research*, 60(5), 1398-1416.
63. Huang, Y. T., Newman, R. S., Catalano, A., & Goupell, M. J. (2017). Using prosody to infer discourse prominence in cochlear-implant users and normal-hearing listeners. *Cognition*, 166, 184-200.
64. Erickson, L. C. & Newman, R. S. (2017). Influences of background noise on infants and children. *Current Directions in Psychological Science*, 26(5), 451-457.

65. Newman, R. S., German, D. J., & Jagielko, J. (2017). Influence of lexical factors on word-finding accuracy, error patterns, and substitution types. *Communication Disorders Quarterly*, 39(2), 356-366. doi: [10.1177/1525740117712205](https://doi.org/10.1177/1525740117712205).
66. Jaekel*, B. N., Newman, R.S., & Goupell, M. J. (2018). Age effects on perceptual restoration of degraded interrupted sentences. *Journal of the Acoustical Society of America*, 143(1), 84-97.
67. Newman, R. S., Morini*, G., Kozlovsky **, P., & Panza*, S. (2018). Foreign accent and toddlers' word learning: the effect of phonological contrast. *Language Learning & Development*, 14(2), 97-112. doi: 10.1080/15475441.2017.1412831
68. Stockbridge*, M. D., Doran, A., King, K., & Newman, R. S. (2018). The effects of concussion on rapid picture naming in children. *Brain Injury*, 32(4), 506-514. doi:10.1080/02699052.2018.1429660
69. Eaton*, C. T. & Newman, R. S. (2018). Heart and ____ or give and ____? An exploration of variables that influence binomial completion for individuals with and without aphasia. *American Journal of Speech-Language Pathology*, 27, 819-826. doi:10.1044/2018_AJSLP-17-0071
70. Godwin, K., Erickson, L. & Newman, R. S. (2018) Insights from crossing research silos on visual and auditory attention. *Current Directions in Psychological Science*, 28(1), 47-52.
71. Heffner*, C. C., Newman, R. S. & Idsardi, W. (2019). Constraints on learning disjunctive, unidimensional auditory and phonetic categories. *Atten Percept Psychophys*, 81(4), 958-980. <https://doi.org/10.3758/s13414-019-01683-x>
72. Mallikarjun*, A., Shroads, E., & Newman, R. S. (2019). The cocktail party effect in the domestic dog (*Canis familiaris*). *Animal Cognition*, 22(3), 423-432. <https://doi.org/10.1007/s10071-019-01255-4>
73. Stockbridge*, M. D. & Newman, R. S. (2019). Enduring cognitive and linguistic deficits in individuals with a history of concussion. *American Journal of Speech-Language Pathology*, 28(4), 1554-1570. doi:10.1044/2019_AJSLP-18-0196.
74. Morini*, G. & Newman, R. S. (2019). Dónde está la ball? Examining the effect of code-switching on bilingual children's word recognition. *Journal of Child Language*, 46(6), 1238-1248.
75. Gerhold, K., Eaton, C. T., Newman, R. S., & Bernstein Ratner, N. (2020). Early phonological predictors of toddler language outcomes. *Folia Phoniatica et Logopaedica*, 72(6), 442-453. DOI: 10.1159/000503230
76. Morini*, G. & Newman, R. S. (2020) Monolingual and bilingual word recognition and word learning in background noise. *Language and Speech*, 63, 381-403. PubMed PMID: 31106697.
77. Raneri, D., von Holzen, K., Newman, R. & Bernstein Ratner, N. (2020) Change in maternal speech rate to preverbal infants over the first two years of life. *Journal of Child Language*, 47(6), 1263-1275. DOI: 10.1017/S030500091900093X.
78. Stockbridge*, M.D., Newman, R. S., Zukowski, A., Slawson, K. K., Doran, A. & Ratner, N. B. (2020). Language profiles in children with concussion. *Brain Injury*, 34(4), 567-574.
79. Newman, R. S., Morini*, G., Shroads, E. & Chatterjee, M. (2020) Toddlers' fast-mapping from noise-vocoded speech. *The Journal of the Acoustical Society of America*, 147 (4), 2432-2441. DOI: 10.1121/10.0001129

80. O'Fallon*, M., Von Holzen, K. & Newman, R. (2020). Preschoolers' word-learning during storybook reading interactions: Comparing repeated and elaborated input. *Journal of Speech, Language & Hearing Research*, 63(3), 814-826. DOI: 10.1044/2019_JSLHR-19-00189
81. Mallikarjun*, A., Shroads, E., & Newman, R. S. (2020). The role of linguistic experience in the development of the consonant bias. *Animal Cognition*. 24(3), 419-431. <https://doi.org/10.1007/s10071-020-01436-6>.
82. Heffner*, C. C., Newman, R. S. & Idsardi, W. (2021). Action at a distance: Long-distance rate adaptation in event perception. *Quarterly Journal of Experimental Psychology*, 74(2), 312-325. doi: 10.1177/1747021820959756.
83. Newman, R.S., Kirby, L. A., Von Holzen, K. & Redcay, E. (2021). Read my lips: Perception of speech in noise by preschool children with autism and the impact of watching the speaker's face. *Journal of Neurodevelopmental Disorders*, 13(4). epub ahead of print. <https://doi.org/10.1186/s11689-020-09348-9>.
84. Jaekel*, BN, Weinstein, S, Newman, RS, & Goupell, MJ. (2021). Access to semantic cues does not lead to perceptual restoration of interrupted speech in cochlear-implant users. *Journal of the Acoustical Society of America*, 149(3), 1488. PMC7935498. DOI: [10.1121/10.0003573](https://doi.org/10.1121/10.0003573)
85. Newman, R. S., Shroads, E. A., Johnson, E. K., Kamdar, J., Morini, G., Onishi, J., Smith, E. & Tincoff, R. (In press). Introducing BITTSy: The **B**ehavioral **I**nfant & **T**oddler **T**esting **S**ystem. *Behavior Research Methods*. epub ahead of print. <https://doi.org/10.3758/s13428-021-01583-9>
86. Blomquist*, C., Newman, R. S., Huang, Y. T., & Edwards, J. (2021). Children with cochlear implants use semantic prediction to facilitate spoken word recognition. *Journal of Speech, Language, and Hearing Research*, 64(5), 1636-1649.
87. Morini*, G. M. & Newman, R. S. (2021). A comparison of monolingual and bilingual toddlers' word recognition in noise. Epub ahead of print. *International Journal of Bilingualism*. <https://doi.org/10.1177/13670069211028664>
88. Cychosz, M., Edwards, J. R., Ratner, N. B., Eaton, C. T. & Newman, R. S. (in press). Acoustic-lexical characteristics of child-directed speech between 7 and 24 months and their impact on toddlers' phonological processing. To appear in *Frontiers in Psychology*.

Research support

EXTERNAL

- | | |
|---|-------------------|
| 1. NIH 1 R03 HD37822-01 \$146,910 total direct costs | 8/1/99-7/31/03 |
| Project title: "The development of language and attention in infancy" | PI |
| 2. NSF BCS 99-07849 \$34,873 total direct costs | 10/1/99-9/30/03 |
| Project title: "The development of language and attention in infancy" | PI |
| 3. Bamford-Lahey Foundation \$20,000 total direct costs | 1/15/03 – 1/15/04 |
| Project title: "Perceptual precursors of early language development" | Co-PI |
| 4. NSF BCS 0642294 \$168,135 total direct costs | 5/1/07 – 4/30/11 |

- Project title: "Development of infant stream segregation: the interplay between perception and cognition" PI
5. NSF BCS 0745412 \$262,277 total direct costs 8/15/08 – 6/01/13
Project title: "Speech and nonspeech predictors of later language development" PI
 6. NSF DGE 0801465 IGERT \$3,002,614 total costs 2008 – 2014
Project title: "Biological and computational foundations of language diversity" Co-PI
 7. NSF BCS 0922985 Major Research Instrumentation Program 2009 – 2010
Project title: "MRI: Acquisition of a 3-Tesla Magnetic Resonance Imaging (MRI)" Faculty
 8. NIDCD NRSA T32 DC000046-22S1 2009 – 2020
Project title: "Comparative and evolutionary biology of hearing" Faculty & Exec. Board
 9. NIH SC2 HD072494-01A2 (Gouvea) \$300,000 total direct costs 7/1/2011 – 6/30/2014
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish Consultant
 10. DoD CDMRP Grant, AR110086 \$100,000 total direct costs 2012 – 2014
Project title: "How Autism affects understanding in multitalker environments" PI
 11. NSF BCS1152109 \$464,287 total direct costs 7/1/2012 – 6/30/2017
Project title: "New tools for new questions: A multi-site approach to studying the development of selective attention in crib bilinguals" PI
 12. NSF BCS1252109 Doctoral Dissertation Research Grant, Candise Lin 2/1/2013-1/31/2015
Project title: "The use of segmentation cues in second language learners of English" Co-PI
 13. NSF BCS1322565 Doctoral Dissertation Research Grant, Giovanna Morini 9/1/2013-8/31/2015
Project title: "Interactions between language experience and cognitive abilities in word learning" PI
 14. Grammy Foundation Proposal, L. R. Slevc 2014-2016
Project title: "Why does musical training affect second language learning?" Co-Investigator
 15. NSF NRT-DESE 1449815 Phillips \$3,069,340 total costs 4/1/2015-3/31/2021
Project title: "NRT-DESE: Flexibility in language processes and technology: Human- and Global-Scale?" Co-PI
 16. NIH 1R01HD081127-01A1 \$1,433,789 total direct costs 8/3/2015-6/30/2021
Project title: "Toddlers' listening and learning in noise: distraction vs. signal degradation" PI
 17. NSF Doctoral Dissertation Research Grant, Christopher Heffner 1/25/2017-1/24/2018
Project title: "Doctoral Dissertation Research: Categorization and Segmentation Inside and Outside Language"
Role: Co-I; PI: W. Idsardi, Student investigator: C. Heffner
 18. NIH, 1F32 DC019539-01 \$134,138 total direct costs 7/01/2021 – 6/30/2023
Project title: "How children with cochlear implants learn speech from their environments"
Role: Faculty co-Sponsor with J. Edwards, Principal investigator: M. Cychosz
 19. NSF (*Recommended for funding; not yet awarded*) 9/01/2021-2/01/2025
Project title: "Collaborative research: Advancing language research and outreach in a language museum"

Role: Faculty associate; PI: Vaughn

INTERNAL SINCE 2012

1. Dean's Research Initiative Funding July, 2010-June 2012
Project title: "Early perceptual, cognitive and linguistic skills in infants at-risk for autism"
2. Support Program for Advancing Research and Collaboration (SPARC) 2012-2013
Project title: "Relationship between stress sensitivity, phonemic processing and reading skill in children with and without dyslexia" Consultant
3. ADVANCE Program for Inclusive Excellence May, 2012 – April, 2013
Project title: "Children's real time processing of words and sounds" Co-PI.
4. VPR Tier 1 request June, 2013 – May, 2014
Project title: "The development of language comprehension in simulated cochlear implant speech"
5. Dean's Research Initiative, Collaboratory Proposal September, 2014 – Sept., 2015
Project title: "Language as a means of assessing children's concussion" Co-PI
6. UMD Strategic Partnership, MPowering the State July, 2017 – June, 2020
Project title: Center of Excellence in Cochlear Implants.
Co-Investigators: R. Newman, M. Goupell, N. Nguyen, R. Hertzano, D. Eisenman
7. UMD Brain & Behavior Initiative 6/1/2019-5/29/2020
Project title: The impact of transcutaneous vagus nerve stimulation on therapy outcomes in aphasia.
Co-Investigators: R. Newman, P. O'Rourke, K. Slawson

Awards and student awards

2013, BSOS Mentorship Award
2013-2014, ADVANCE Leadership Fellow
2015-2016, CIC-Academic Leadership Fellow
2020, UMD Distinguished Scholar-Teacher Award

My student mentees have received:

Graduates

NSF Graduate Research Fellowship (x2)
NSF East Asia & Pacific Summer Institutes Fellowship
UMD Distinguished Service Award Finalist (x2)
NSF Doctoral Dissertation Improvement Grant (x2)
ASHFoundation New Century Scholars Doctoral Scholarship
UMD Flagship Fellowship (x3)
William Hodos Dissertation Research Assistantship
NACS Research Training Award
Young Scientist Conference Attendance Grant
Acoustical Society Hunt Postdoctoral Fellowship
Acoustical Society Travel Award
Ann G. Wylie Dissertation Fellowship

Undergraduates

J. R. Dorfman Prize for Outstanding Undergraduate Research
HHMI Fellow
MCUR Student Researcher of the Year Award
Maryland Center for Undergraduate Research Summer Fellow (x5)

BSOS Summer Scholar (x3)
Merrill Scholar
Honors in Biology
Honors in Hearing and Speech Sciences
High Honors in Hearing and Speech Sciences (x2)
VU-Edge (Vanderbilt) Fellow
SPARC (Students Preparing for Academic and Research Careers) Award

High School Interns

ERHS: First place, Science Fair
Honorable mention in Behavioral and Social Sciences, Regional Science Fair (x2)
Best Presentation, Regional Science Fair
Honorable Mention from the Washington Statistical Society
Naval Science - Senior award from the Office of Naval Research

Invited talks since 2012

1. Newman, R. S. Infants' comprehension of speech in the presence of noise. Invited talk at the Department of Speech, Language, & Hearing Sciences, Boston University, March, 2012.
2. Newman, R. S. How babies make sense of sound. Invited talk as part of AAAS Meet the Scientists stage show at the 2nd USA Science & Engineering Festival, April 2012.
3. Newman, R. S. How babies make sense of sound. Invited talk at the University of Tübingen, July 2014.
4. Newman, R. S. Discussant for "Statistical learning and native-language learning are linked throughout development", symposium presented at the Society for Research in Child Development, March 2015.
5. Newman, R. S. Learning language from difficult listening situations: How children process poor-quality speech signals. Invited talk as part of the Translational Science Research Seminar Series at Nemours/Alfred I duPont Hospital for Children in Wilmington, DC, May 16, 2016.
6. Newman, R. S. When listening to language is hard. Invited talk at Boys Town National Research Hospital, Omaha, Nebraska, September 17, 2019.
7. Newman, R. S. When listening to language is hard. Invited talk at the University of Delaware. Dept. of Communication Sciences & Disorders, October 29, 2019.
8. Newman, R. S. When listening to language is hard. Invited talk at the Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, November 12, 2019.
9. Newman, R. S. When listening to language is hard. Invited talk at the University of Utrecht, Utrecht Institute of Linguistics, the Netherlands, November 21, 2019.
10. Newman, R. S. When language is hard to process. Invited talk at the University Medical Center Utrecht, Department of Otorhinolaryngology, the Netherlands, December 5, 2019.
11. Newman, R. S. How does sound work? NPR (internal) Trainingpalooza, January, 2020.
12. Newman, R. S. Workshop on Speech Perception and Production across the Lifespan (SPPL2020). London, March 2020 (*invited, but conference cancelled for COVID*)
13. Newman, R. S. Noise in the nursery: Three ways noise can impact your child's learning. The Distinguished Scholar-Teacher Lecture Series, College Park, MD, April 2021.

Presentations since 2015

1. Newman, R. S. Toddlers' ability to understand and learn from vocoded speech. Presentation at the Mid-Atlantic Seminar on Hearing, January, 2015.
2. Newman, R. & Dombroski**, J. Preschoolers' word learning in noisy environments. Poster presented at the Society for Research in Child Development, March 2015.
3. Morini*, G., Newman, R. & Sanders***, K. Examining the role of the sentence structure on children's word identification. Poster presented at the Society for Research in Child Development, March 2015.
4. Huang, Y. T., Newman, R., Catalano, A., & Goupell, M. Using prosody to infer discourse status in normal-hearing and cochlear-implant listeners. Talk presented at the 28th Annual CUNY Conference on Human Sentence Processing.
5. Anderson*, L. C., Newman, R. S. & Redcay, E. How multitalker environments affect speech understanding in autism. Poster presented at the 2015 International Meeting for Autism Research.
6. Jaekel*, B.N., Newman, R.S., & Goupell, M.J. Speaking rate effects on phoneme perception in adult CI users with early- and late-onset deafness. Poster presented at the 2015 Conference on Implantable Auditory Prostheses, July 2015.
7. Jaekel, B., Newman, R., and Goupell, M. J. Speaking rate effects on phonemic boundary perception in cochlear implant users. Poster presented at 169th Meeting of the Acoustical Society of America, Pittsburgh, PA, May 2015.
8. Stockbridge*, M.D., Doran, A., King, K.A., Newman, R. (July 15, 2015). Picture naming in adolescents with concussion. Poster presented at Big Ten/CIC-Ivy League Traumatic Brain Injury Research Collaboration Summit. Big Ten Conference Center, Chicago, IL.
9. Raneri*, D., Ratner, N., & Newman, R. Slow down, Mommy, I'm learning: Speech rate & language outcomes. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2015.
10. Gerhold*, K., Ratner, N., & Newman, R. Early phonological predictors of toddler language outcomes. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2015.
11. Mallikarjun*, A., Newman, R., & Novick, J. Online processing of lexical tone by second language learners of Mandarin. Poster presented at the 56th Annual Psychonomic Society Meeting, Chicago, IL, November, 2015.
12. Heffner*, C. C., Idsardi, W. J. & Newman, R. Support for a Dual-Systems Model of Speech Sound Category Learning From Goodness Judgments. Poster presented at the 56th Annual Psychonomic Society Meeting, Chicago, IL, November, 2015.
13. Heffner*, C.C., Jaekel*, B., Newman, R. S. & Goupell, M. An exploratory study of word segmentation in CI users and vocoded speech. Paper presented at the Mid-Atlantic Seminar on Hearing (MASH), College Park, MD, January 2016.

14. Newman, R. S. Finding the words in the blooming, buzzing confusion: noise impacts on toddlers. Talk presented at the 2016 meeting of the American Association for the Advancement of Science, Washington, DC, February 2016.
15. Newman, R.S. & Ratner, N. How input and processing skills combine to affect child language outcomes. Talk presented at the International Conference on Infant Studies, New Orleans, May 2016.
16. Newman, R.S. & Morini*, G. Effect of the relationship between target and masker sex on infants' recognition of speech. Talk presented at the International Conference on Infant Studies, New Orleans, May 2016.
17. Morini*, G., Newman, R. S. & Singh, L. Word recognition across dialects in monolingual and bilingual infants. Poster presented at the International Conference on Infant Studies, New Orleans, May 2016.
18. Kozlovsky**, P., Panza*, S., Morini*, G. & Newman, R. S. Generalizing across accents: The problem of phonemic deviations. Poster presented at the International Conference on Infant Studies, New Orleans, May 2016.
19. Newman, R. S. Learning language from difficult listening situations: How children process poor-quality speech signals. Invited talk at the UMD Cognitive Science Colloquium Series, November 2016.
20. Morini*, G. & Newman, R. S. Language mixing and its effect on bilingual children's word recognition. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2016.
21. Booth**, T., Newman, R. & Bernstein Ratner, N. Who framed babytalk? Seven-month-old infants benefit from maternal repetition. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2016.
22. Newman, R. Lexical access of words that cross speech streams. Poster presented at the 57th Annual Psychonomic Society Meeting, Boston, MA, November, 2016.
23. Stockbridge*, M. & Newman, R. Picture naming in young people with concussion. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2016.
24. Nuzzo Michiels*, C., Newman, R. & Bernstein Ratner, N. The female advantage in language development from 7-24 months and why it matters. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2016.
25. Jaekel*, B., Newman, R. S. & Goupell, M. Age effects on perceptual restoration of degraded interrupted sentences. Poster presented at the 40th MidWinter meeting of the ARO.
26. Poland*, J. Bernstein Ratner, N. & Newman, R. Why it helps to say it again: The beneficial effects of maternal recasting and expansion. Poster presented at the IASCL2017 Congress in Lyon, France.
27. Hobbs-Renzi*, D. T., Romberg, A., Bolger, D. J. & Newman, R. S. Two minds are better than one: Cooperative communication facilitates infant language learning. Paper presented at the 2017 Biennial meeting of the Society for Research in Child Development, Austin, TX.
28. Stockbridge, M. D. & Newman, R. S. (2017). The effects of concussion on rapid word retrieval in children. *International Brain Injury Association 12th World Congress on Brain Injury*, April, 2017, & *Brain Injury*, 31(6-7), 728. (Conference proceedings)

29. Poland*, J. Bernstein Ratner, N. & Newman, R. Why it helps to say it again: The beneficial effects of maternal recasting and expansion. Poster presented at the IASCL2017 Congress in Lyon, France, July, 2017.
30. Jaekel*, B. N., Newman, R. S. & Goupell, M. J. Older normal-hearing listeners perceptually restore degraded interrupted speech. Poster presented at the *Aging & Speech Communication Conference*, Tampa, FL, November, 2017.
31. Heffner*, C. C., Newman, R. S. & Idsardi, W. J. Viewers adapt to rate changes in event perception. Poster presented at the 58th Annual Psychonomic Society Meeting, Vancouver, BC, Canada, November, 2017.
32. Morini, G. & Newman, R. S. Living in a noisy world: Examining monolinguals' and bilinguals' performance during listening in noise tasks. Poster presented at the 58th Annual Psychonomic Society Meeting, Vancouver, BC, Canada, November, 2017.
33. Morini, G. & Newman, R. S. Dónde está la ball? Examining the effect of language mixing on bilingual children's word recognition. Talk presented at the International Congress on Infant Studies, Philadelphia, PA, July 2018.
34. Mulak, K., Erickson, L., Shroads, E., Chatterjee, M. Frick, J., & Newman, R. S. Distractability during play predicts 17-month-olds' familiar word recognition in noise. Poster presented at the International Congress on Infant Studies, Philadelphia, PA, July 2018.
35. Shroads, E., Morini, G. & Newman, R.S. What did you say, Mommy? The impact of electronic toy noise on understanding speech. Poster presented at the International Congress on Infant Studies, Philadelphia, PA, July 2018.
36. Shroads, E., Onishi, K., Johnson, E., Tincoff, R. & Newman, R. S. Introducing BITTSy: Behavioral Infant & Toddler Testing System. Poster presented at the International Congress on Infant Studies, Philadelphia, PA, July 2018.
37. Newman, R. S., Erickson, L., Shroads, E., Chatterjee, M. & Frick, J. Toddlers' listening in noise: The role of attention. Poster presented at the International Congress on Infant Studies, Philadelphia, PA, July 2018.
38. Newman, R. S. Toddlers' accommodation of accent: Acoustic and experiential factors. Symposium talk at Boston University Conference on Language Development, November, 2018.
39. Mallikarjun*, A. & Newman, R. S. Domestic dogs' recognition of vowel and consonant mispronunciations in their own names. Poster presented at the 59th Annual Psychonomic Society Meeting, New Orleans, LA, November, 2018.
40. Mallikarjun*, A. & Newman, R. S. The cocktail party effect in domestic dogs. Poster presented at the 59th Annual Psychonomic Society Meeting, New Orleans, LA, November, 2018.
41. Newman, R. S. Toddlers' accommodation of accent: Acoustic and experiential factors. Symposium talk at Boston University Conference on Language Development, November, 2018.
42. Sonenklar **, L. & Newman, R. Bilingualism in Noise. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2018.

43. Booth **, T. & Newman, R. The Effect of a Foreign Accent on the Short-Term Memory of School-Aged Children. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2018.
44. Von Holzen, K. & Newman, R. (2018, Dec). On the road to bilingualism: The role of native language knowledge in foreign speech processing. In Koostra, G. J. and Bosma, E. (Chairs), *Cross-language activation in bilingual children*. Accepted for presentation at the Conference on Multilingualism, Ghent, Belgium.
45. Jaekel, B. N., Newman, R. N., and Goupell, M. J. “Benefits of recruiting age-matched normal-hearing control groups in cochlear implant speech processing research,” Association for Research in Otolaryngology 42nd MidWinter Meeting, Baltimore, MD, February 2019.
46. Mulak, K. E., Erickson, L. C., Shroads, E., Chatterjee, E., Frick, J. & Newman, R. S. The more at home, the more you roam: Number of children in household predicts 17- and 21-month-olds’ distractibility during play. Society for Research in Child Development, March 2019.
47. Shroads, E. & Newman, R. S. Teaching in noise: Parental speech and children’s learning of words in noisy and quiet environments. Society for Research in Child Development, March 2019.
48. Stockbridge*, M. D. & Newman, R.S. (2019). Language skills in young children with concussion. Poster presented at the American Speech, Language Hearing Association Annual Convention, November, 2019.
49. Stockbridge*, M. D. & Newman, R.S. (2019). Enduring Cognitive & Linguistic Deficits in Individuals With a History of Concussion. Talk presented at the American Speech, Language Hearing Association Annual Convention, November, 2019.
50. Exton*, E. & Newman, R.S. (2019). Identification of code-switches in unfamiliar languages. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Canada, November 14-17.
51. Mallikarjun, A., Shroads, E., & Newman, R. (2019). Language discrimination in the domestic dog. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Canada, November 14-17.
52. Newman, R. S., Shroads, E., Otarola**, D., Onishi, K. H., Johnson, E., Tincoff, R., (2020). *Infants’ use of phonological detail (mispronunciations) in noisy listening conditions*. Poster presented at vICIS: the International Congress of Infant Studies, July 2020.
53. Shroads, E., Newman, R. S., Johnson, E., Tincoff, R., Onishi, K. H. (2020). A new software package for infant experimental testing procedures: Introducing BITTSy. Poster presented at vICIS: the International Congress of Infant Studies, July 2020.
54. Shroads, E. & Newman, R. S. (2020). Fewer turns, poorly learned: The effects of noise on word learning and parent-child interaction quality. Poster presented at vICIS: the International Congress of Infant Studies, July 2020.
55. Blomquist*, C., Newman, R., Huang, Y. T., Edwards, J. Semantic prediction in sentence processing by children with cochlear implants. Presented at “Perspectives on Language in Children with Hearing Loss”, Macquarie University, August 2020.

56. Blomquist*, C. M., Newman, R. S., Huang, Y. T., & Edwards, J. R. (2020). Children with cochlear implants use semantic prediction to facilitate spoken word recognition. Paper presented at the Boston University Conference on Language Development, Boston, MA [virtual], November 2020.
57. Exton*, E. & Newman, R.S. Acoustics of Spanish-English code-switching in speech to toddlers. Poster presented at the annual meeting of the Psychonomic Society, November 2020.
58. Exton*, E & Newman, R.S. (2020). Phonemic restoration in monolingual and bilingual listeners in a sentence context. Poster presented at Acoustics Virtually Everywhere: 179th Meeting of the Acoustical Society of America, December 2020. *(Originally for May meeting, postponed as a result of COVID)*
59. Newman, R.S. (2020). The role of attention in listening-in-noise. Poster presented at Acoustics Virtually Everywhere: 179th Meeting of the Acoustical Society of America, December 2020. *(Originally for May meeting, postponed as a result of COVID)*
60. Buntrock*, M. & Newman, R.S. (2020). Does a history of concussion affect accented speech recognition in noise? Poster presented at Acoustics Virtually Everywhere: 179th Meeting of the Acoustical Society of America, December 2020. *(Originally for May meeting, postponed as a result of COVID)*
61. Von Holzen, K. & Newman, R. S. (2021). The recognition of foreign words at first exposure in early language development: The role of phonological similarity. Poster presented at the Virtual Biennial Meeting of the Society for Research in Child Development, April 2021.
62. Buntrock*, M., Shroads, E.A. & Newman, R. S. (2021). Preschool aged children learning novel words from storybooks in the presence of noise. Poster presented at the Virtual Biennial Meeting of the Society for Research in Child Development, April 2021.
63. Gowing***, K., Exton*, E. & Newman, R. S. (2021). Perceptual restoration in monolingual and bilingual children. Poster presented at the 3rd NSF-REU Intersection of Linguistics, Language, and Culture Conference, June 2021.
64. Blomquist*, C. M., Newman, R. S., Huang, Y. T. & Edwards, J. (2021). Children with cochlear implants use semantic prediction to facilitate spoken word recognition. Poster presented at the 2021 Conference on Implantable Auditory Prosthesis, July 2021.
65. Jaekel*, BN, Weinstein, S, Newman, RS, & Goupell, MJ. (2021). Few cochlear-implant listeners employ speech repair strategies in noisy listening scenarios. Poster presented at the 2021 Conference on Implantable Auditory Prosthesis, July 2021.
66. Mulak, K., Newman, R. & Chatterjee, M. Detrimental effects of noise on language comprehension may accumulate over time. Talk presented at the International Association for the Study of Child Language, July 2021.
67. Stockbridge, M.D., Keser, Z. & Newman, R. S. (2021). Concussion in women's flat-track roller derby. Top scoring oral presentation to occur at the Virtual World Congress on Brain Injury, July 2021.

Professional Service

Advisory Board, [Planet Word](#) (museum on language) 2020-
Associate Editor, *Language and Speech*, 2020-
Associate Editor, *Journal of the Acoustical Society of America*, 2007-2011
Editorial board, *Perception & Psychophysics* 2003-2005
Ad-hoc grant reviewer, National Institutes of Health, Communication Disorders Review Committee;
National Science Foundation, Division of Behavioral and Cognitive Sciences; Natural Sciences &
Engineering Research Council of Canada (NSERC); Netherlands Organisation for Scientific Research.
Grant panel reviewer, National Science Foundation, Developmental and Learning Sciences, 2009.
Grant panel reviewer, NIH F31/F32 grants, 2014-2015
Grant panel reviewer, NIH Healthcare Delivery & Methodologies IRG 2016
Grant panel reviewer, NSF Smart & Connected Health, 2017
Grant panel reviewer, NIH LCOM, 2018.
Grant panel reviewer & Chair, NIH Special Emphasis Panel, 2020 fall
Ad-hoc reviewer, since 2012: *Applied Psycholinguistics; Bilingualism, Language & Cognition; Child
Development; Cognition, Developmental Science; Ear and Hearing; Folia Phoniatica et
Logopaedica; Infancy; Infant Behavior and Development; Infant & Child Development; Journal of
Experimental Child Psychology; Journal of Memory and Language; Journal of Speech, Language,
and Hearing Research; Journal of the Acoustical Society of America; Journal of Visualized
Experiments; Laboratory Phonology; Language Learning & Development; Language & Speech;
Perception & Psychophysics/Attention, Perception & Psychophysics. Psychological Science;
Psychonomic Bulletin & Review*
Regular mentor for Eleanor Roosevelt High School Science Internship Program

University Service

Provost's Academic Planning Advisory Committee (APAC), 2021-present
UMD Senate Chair-Elect, 2021-present (*includes Senate Executive Committee member, Senate
Committee on Committees Chair*)
DST Award Committee, 2021
Executive Board, Brain & Behavior Institute, 2021-present
Member, Language Science Center Self-Study, 2020-present
Committee on the Future of Research in the post-COVID19 era, 2020
COVID 19 UMD Research Advisory Task Force, 2020
Chair, African American Studies Dept. Chair Search, 2020
Chair, Psychology Dept. Chair Search, 2016
Co-Founder, University of Maryland Autism Research Consortium
Co-Founder and Co-Director, University of Maryland Infant Studies Consortium
Co-Founder & Admissions Committee Member, University of Maryland PULSAR Program
Co-Founder & Executive Board, Maryland Cochlear Implant Center of Excellence
Member NACS Strategic Planning Committee, 2016-2017
Department Chair, 2014-present
Associate Director, Maryland Language Science Center, 2013-present
Admissions committee, Program in Neuroscience and Cognitive Science, 2001-2004; 2006-2014
Chair, Admissions committee, Program in Neuroscience and Cognitive Science, 2012-2014
Director of Graduate Studies, Program in Neuroscience and Cognitive Science, 2012-2014
Curriculum Committee, Program in Neuroscience and Cognitive Science, 2012-2014
Self-study committee, Program in Neuroscience and Cognitive Science, 2012-2013
Executive Board, Program in Neuroscience and Cognitive Science, 2007-2009, 2012-2014
Executive Board, Maryland IGERT/Language Science Center, 2008-present
University Graduate Council, 2009-2013
University Graduate Council PCC Committee, 2009-2013; Chair 2010-2013

University Senate, 2010-2011, 2021-present

Research mentor for nearly 150 undergraduate students (currently 15-20 per semester) through a variety of research programs.

Regular mentor for four different campus programs designed specifically to broaden the participation of groups underrepresented in science.

Major Departmental Service

HESP Promotion & Tenure Policy Committee Chair, 2021-

HESP Strategic Planning and Self-Study Chair, 2017-2018

Director of Graduate studies, 2008-2014

Chair, Admissions and Financial Aid Committee, 2008-2014

Diversity Committee, 2008-present (Chair, 2007-2008)

Search Committee Member, Audiology Search, 2010-2011

Search Committee Member, Hearing Science Search, 2010-2011

Search Committee Co-Chair, Speech Science Search, 2010-2011

Departmental APT Review Committee, 2010-2011; 2013-2014

Ph.D. Student Professional Development Series, Organizer, 2010-2014

Chair, Administrative Affairs Committee, 2011-2014

Executive Committee, 2011-2014

Information Technology Committee, 2011-2014

Search Committee Chair, Open-Rank Search, 2011-2012, 2012-2013

Department Chair Search Committee Member, 2013-2014

Faculty Mentor (for Yi Ting Huang), 2011-2014

Professional Organizations

- Acoustical Society of America
- Psychonomic Society
- International Society for Infant Studies
- Society for Language Development
- Society for Cognitive Development
- American Psychological Society