

Curriculum Vitae

Richard N. Aslin

August 1, 2017

Office Address: Haskins Laboratories
300 George Street
New Haven, CT 06511
phone: 203-865-6163
e-mail: richard.aslin@haskinslabs.org
website: <http://haskinslabs.org/people/richard-aslin>

Home Address: 107 Moser Street
Northampton, MA 06010
mobile: (585) 309-8010

Personal Data: Born August 9, 1949
Married; Two children

Education:

Michigan State University, B.A. with High Honors in Psychology, 1971
Institute of Child Development, University of Minnesota, Ph.D. in Child Psychology, 1975

Scholarships and Awards:

National Science Foundation Undergraduate Research Fellowship, Summer, 1970
National Institute of Mental Health Predoctoral Traineeship in Child Psychology, 1971-1975
Summer Faculty Fellowship, Indiana University, 1976
Research Career Development Award, National Institute of Child Health and Human Development, 1979-1984
Boyd R. McCandless Young Scientist Award, American Psychological Association (Division 7), 1981
Early Career Award, Developmental Psychology, American Psychological Association, 1982
James McKeen Cattell Award (sabbatical), 1984-1985
John Simon Guggenheim Memorial Foundation Fellowship, 1988-1989
Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, 1988-1989
Bridging Fellowship, Departments of Biology and Human Genetics, University of Rochester, Fall, 1997
Robert and Pamela Goergen Award for Distinguished Contributions to Undergraduate Learning in the College, University of Rochester, September 7, 2001
Fellow, American Association for the Advancement of Science, 2002
Fellow, American Academy of Arts and Sciences, 2006
President-elect, International Society for Infant Studies, 2008-2010

President, International Society for Infant Studies, 2010-2012
Honorary Doctorate, Uppsala University, Uppsala, Sweden, January 22, 2010
Fellow, Cognitive Science Society, 2012
Section Chair, Psychology (J), American Association for the Advancement of Science, 2013
Lifetime Achievement Award in Graduate Education, University of Rochester, 2013
Member, National Academy of Sciences, 2013 (Induction April, 2014)
Distinguished Scientific Contributions Award, American Psychological Association, 2014
Outstanding Achievement Award, Alumni Wall of Honor, University of Minnesota, 2014
Mentor Award for Lifetime Achievement, Association for Psychological Science, 2015

Professional Experience:

Assistant Professor, Department of Psychology, Indiana University, 1975-1979
Associate Professor, Department of Psychology, Indiana University, 1979-1982
Visiting Scientist, Regional Primate Research Center, University of Washington, Summer 1981
Visiting Professor, Center for Research in Human Learning, University of Minnesota, Summer, 1982
Professor, Department of Psychology, Indiana University, 1982-1984
Professor, Department of Psychology, University of Rochester, 1984-1995
Professor, Center for Visual Science, University of Rochester, 1984-present
Chair, Department of Psychology, University of Rochester, 1988-1991
(on leave, September 1988 - July 1989)
Dean, College of Arts and Science, University of Rochester, 1991-1994
Vice Provost and Dean of the College, University of Rochester, 1994-1996
Professor, Department of Brain and Cognitive Sciences, 1995-2016
Visiting Professor, Department of Psychological and Brain Sciences, Dartmouth College, Fall, 1999
Director, Center for Language Sciences, University of Rochester, 2000-2003
Director, Rochester Center for Brain Imaging, 2003-2017
William R. Kenan Professor of Brain and Cognitive Sciences, University of Rochester, 2004-2016 (Emeritus 2016-2017)
Visiting Professor, Centre for Brain and Cognitive Development, Birkbeck College, University of London, 2006-2007
Visiting Professor, Department of Brain and Cognitive Sciences, MIT, 2013-2014
Distinguished Research Scientist, Haskins Laboratories, New Haven, CT, 2017-present
Visiting Professor, Department of Psychology, Yale University, 2017-present

Professional Affiliations:

American Association for the Advancement of Science
Association for Psychological Science
Cognitive Development Society
Cognitive Science Society
International Congress on Infant Studies
Psychonomic Society
Society for Functional Near-Infrared Spectroscopy

Society for Language Development
Society for Research in Child Development
Vision Sciences Society

Recent Invited Colloquia and Keynote Addresses:

Universite Paris Descartes, October 2016
University of Geneva, Piaget Archives Lecture, June 2016
International Congress on Infant Studies, May 2016
Association for Psychological Science, May 2016
University of Toronto, March 2016
University of California-Riverside, February 2016
Haskins Laboratories, New Haven, CT, October 2015
Yale University, October 2015
BCBL Conference on Statistical Learning, San Sebastian, Spain, June 2015
University of Texas at Dallas, April 2015
Queens University, March 2015
University of Buffalo, March 2015
University of Wisconsin, December 2014
Boston University Child Language Development, keynote address, November 2014
Pennsylvania State University, October, 2014
MIT, December, 2013; February, 2014
Stanford University, May, 2013
Virginia Tech, March, 2013
University of South Carolina, March, 2013
Cornell University, February, 2013
University of Pennsylvania (IRCS), January 2013
Princeton University, October, 2012
University of Pittsburgh, September, 2012
International Society for Infant Studies, presidential address, June 2012
University of Michigan, February, 2012

Editorial and Grant Reviewing Activities:

Series editor, Neural and Behavioral Development -- Advances, Monographs, and books published by Ablex Publishing Corporation, 1982-1987
Member of editorial board, *Infant Behavior and Development*, 1982-1985, 1989-1998
Member of editorial board, *Child Development*, 1983-1985, 1989-1996
Member of editorial board, *Developmental Psychology*, 1984-1985, 1998-2003
Member, NIH Study Section on Human Development and Aging - I, 1985-1989
Associate Editor, *Developmental Psychology*, 1986-1988
Member, NSF Review Panel on Human Cognition and Perception, 1997-2000
Member of editorial board, *Journal of Experimental Child Psychology*, 1997-2003
Member of editorial board, *Infancy*, 1998-2003, 2008-present
Member of editorial board, *Cognition*, 2001-2012
Editor, *Infancy*, June 1, 2003-2008

Member of advisory board, *Language Learning and Development*, 2005-present
Member of editorial board, *Cognitive Science*, 2010-2014
Associate Editor, *Developmental Science*, 2011-2015
Member, NIH Study Section on Language and Communication, 2014-2017
Editor, *Open Mind: Discoveries in Cognitive Science*, 2016-present

Grants Approved and Funded:

Biomedical Sciences Support Grant, Indiana University, "Visual system development in human infants", 1975-1976
Spencer Foundation Grant, Indiana University, "Development of binocular vision and acuity", 1976
Biomedical Sciences Support Grant, Indiana University, "Development of visual receptor function in human infants", 1977
NIMH Small Grant (MH 30424-1), "Perception of speech and nonspeech sounds in infants", 1977-1978 (D. B. Pisoni, co-investigator)
NSF Grant (BNS 77-04580), "Development of human eye movement control systems", 1977-1980
NIH Grant (HD-11915), "Perception of speech and nonspeech sounds in infants", 1978-1981 (D. B. Pisoni, co-investigator)
March of Dimes Grant (12-78-88), "Congenital eye misalignment in human infants", 1978-1982
NIH Research Career Development Award, (HD-00309), "Effects of experience on infant perceptual development", 1979-1984
NSF CAUSE Grant (SER 79-07925), "Instructional and self-motivational system for developmental and physiological psychology", 1979-1982 (J. R. Alberts and G. Rebec, co-investigators)
NSF (BNS 79-06204) and Sloan Foundation Conference entitled: "Genetic and experiential factors in perceptual development", October, 1979
NSF Grant (BNS 80-13075), "Development of the visual system in human infants", 1980-1983
NIH Grant (HD-11915), "Perception of speech and nonspeech sounds in infants", 1981-1984 (D. B. Pisoni, co-investigator)
NIH Grant (EY-04392), "A prospective study of binocularity in congenital esotropes", 1983-1984 (E. M. Helveston, co-investigator)
NIH Grant (HD-20286), "Perception of speech and nonspeech sounds in infancy", 1985-1987
NIH Grant (EY-05976), "Sensory constraints on oculomotor development in infancy", 1985-1989
NIH Shared Instrumentation Grant (RR-02820), "Eyetracker for research on human vision", 1986 (W. Makous and M. Hayhoe, co-PIs)
NIH Grant (HD-20286), "Perceptual segmentation of speech by human infants", 1987-1992
Air Force Office of Scientific Research (90-0192), conference grant for symposium on "Orientation in space", 1990
NSF Grant (BNS91-08723), "Development of visual stability in human infants", 1991-1994
NSF Grant (SBR94-21064), "Lexical development in human infants", 1995-1998

NSF Grant (SBR97-29095), “Time course of spoken word recognition”, M. Tanenhaus PI, 1998-2001

NSF Grant (SBR98-73477), “Statistical learning and its constraints”, E. Newport, R. Jacobs, and M. Hauser co-PIs, 1998-2002

NIH Grant (HD-37082), “Statistical language learning in human infants”, 1998-2002

NIH Grant (DC-05071), “Time course of spoken word recognition”, M. Tanenhaus PI, 2001-2006

McDonnell Foundation (21002017), “Infant looking: Methods used to assess cognitive development”, 2001-2004

NSF Equipment Grant (BNS-0215700), "Acquisition of a magnetic resonance imaging system to assess brain plasticity", D. Bavelier, E. Newport, K. Parker, and J. Zhong co-PIs, 2002-2005

Packard Foundation (2001-17783), “Understanding the brain mechanisms specialized for language processing in the deaf and hearing through functional imaging”, D. Bavelier, W. Merigan, E. Newport, and T. Supalla co-PIs, 2001-2006

McDonnell Foundation (21002089), “Program to combine methods for assessing cognitive development in human infants and to promote the field of developmental cognitive neuroscience”, 2003-2006

NIH Grant (HD-37082), “Visual statistical learning in human infants”, 2003-2009

NIH Grant (DC-05071), “Time course of spoken word recognition”, M. Tanenhaus PI, 2007-2012

McDonnell Foundation (220020096), “Program grant to develop near-infrared spectroscopy in combination with ERPs and fMRI to assess cognitive development in human infants and young children”, 2007-2011

ONR-MURI grant (N00014-07-1-0937), “Complex learning and skill transfer with video games”, D. Bavelier PI, 2007-2012

NIH Grant (HD-37082), “Statistical approaches to linguistic pattern learning”, E. Newport, co-PI, 2009-2014 [2-year administrative supplement awarded on October 1, 2009]

NSF grant (CBET-0931687), “Enhanced near-infrared monitoring of brain function in infants”, A. Berger PI, 2009-2012

NIH grant (HD-067250), “Statistical learning of multiple patterns in infants, adults, and monkeys”, D. Weiss PI, 2011-2016

NIH Grant (HD-073890), “Time course of spoken word recognition”, M. Tanenhaus PI, 2012-2016

NSF conference workshop grant (BCS-1339060), “Learning to attend, attending to learn: Neurological, behavioral, and computational perspectives”, R. Wu PI, Fall 2013

NSF grant (BCS-1514351), “EAGER: Developmental mechanisms of perception and language in the infant brain”, R. Aslin PI, C. Nelson co-PI, 2015-2017

University Research Award, University of Rochester, “Laboratory for Interactional Dynamics: Using Real-Time Avatars to Manipulate Social Cues”, M. Sturge-Apple PI, R. Aslin and W. Heinzelman, co-PIs, 2015-2016

NIH Grant (HD-088731), “Probabilistic computation in the cortex of the developing human brain”, R. Aslin PI, J. Fiser co-I, 2016-2018

McDonnell Foundation (220020494), “Planning grant: Statistical Learning”, R. Aslin PI, Ram Frost, Ken Pugh, Jay Rueckl co-I's, 2017-2019

Publications:

Edited Books

Aslin, R. N., Alberts, J. R. and Petersen, M. R. (Eds.). (1981). *Development of perception: Psychobiological perspectives*. New York: Academic Press.

Volume I: Audition, somatic perception and the chemical senses.

Volume II: The visual system.

Aslin, R. N. (Ed.). (1985). *Advances in neural and behavioral development*, Volume 1: The visual system. Norwood, NJ: Ablex.

Aslin, R. N. (Ed.). (1986). *Advances in neural and behavioral development*, Volume 2: The auditory system. Norwood, NJ: Ablex.

Chapters

Aslin, R. N. and Banks, M. S. (1978). Early visual experience in humans: Evidence for a critical period in the development of binocular vision. In H. L. Pick, H. W. Leibowitz, J. E. Singer, A. Steinschneider, and H. W. Stevenson (Eds.), *Psychology: From research to practice*. New York: Plenum Press, pp. 227-239.

Aslin, R. N. and Pisoni, D. B. (1980). Some developmental processes in speech perception. In G. H. Yeni-Komshian, J. F. Kavanagh, and C. A. Ferguson (Eds.), *Child Phonology: Volume 2, Perception*. New York: Academic Press, pp. 67-96.

Aslin, R. N. and Dumais, S. T. (1980). Binocular vision in infants: A review and a theoretical framework. In H. W. Reese and L. P. Lipsitt (Eds.), *Advances in Child Development and Behavior*, Volume 15. New York: Academic Press, pp. 53-94.

Aslin, R. N. (1981). Development of smooth pursuit in human infants. In D. F. Fisher, R. A. Monty, and J. W. Senders (Eds.), *Eye Movements: Cognition and Visual Perception*. Hillsdale, N.J.: Erlbaum, pp. 31-51.

Walley, A., Pisoni, D. B. and Aslin, R. N. (1981). The role of early experience in the development of speech perception. In R. N. Aslin, J. R. Alberts, and M. R. Petersen (Eds.), *Development of perception: Psychobiological perspectives*, Vol. I. New York: Academic Press, pp. 219-255.

Aslin, R. N. (1981). Experiential influences and sensitive periods in perceptual development: A unified model. In R. N. Aslin, J. R. Alberts, and M. R. Petersen (Eds.), *Development of perception: Psychobiological perspectives*, Vol II. New York: Academic Press, pp. 45-93.

Aslin, R. N., Pisoni, D. B. and Jusczyk, P. W. (1983). Auditory development and speech perception in infancy. In M. M. Haith and J. J. Campos (Eds.), *Infancy and*

developmental psychobiology. Volume 2 of the *Handbook of child psychology*, 4th Edition (P. H. Mussen, series editor). New York: Wiley and Sons, pp. 573-687.

- Aslin, R. N. (1984). Sensory and perceptual constraints on memory in human infants. In R. Kail and N. E. Spear (Eds.), *Comparative perspectives on the development of memory*. Hillsdale, NJ: Erlbaum, pp. 39-64.
- Aslin, R. N. (1985). Effects of experience on sensory and perceptual development: Implications for infant cognition. In J. Mehler and R. Fox (Eds.), *Neonate cognition: Beyond the blooming, buzzing confusion*. Hillsdale, NJ: Erlbaum, pp. 157-183.
- Aslin, R. N. (1985). Oculomotor measures of visual development. In G. Gottlieb and N. Krasnegor (Eds.), *Measurement of audition and vision during the first year of postnatal life: A methodological overview*. Norwood, NJ: Ablex, pp. 391-417.
- Aslin, R. N. (1987). Visual and auditory development in infancy. In J. D. Osofsky (Ed.), *Handbook of infant development*, 2nd edition. New York: Wiley, pp. 5-97.
- Aslin, R. N. (1987). Motor aspects of visual development in infancy. In P. Salapatek and L. B. Cohen (Eds.), *Handbook of infant perception*. New York: Academic Press, pp. 43-113.
- Aslin, R. N. (1988). Anatomical constraints on oculomotor development: Implications for infant perception. In A. Yonas (Ed.), *Perceptual development in infancy: The Minnesota symposia on child psychology*, Vol. 20. Hillsdale, NJ: Erlbaum, pp. 67-104.
- Aslin, R. N. and Smith, L. B. (1988). Perceptual development. In M. Rosenzweig and L. Porter (Eds.), *Annual review of psychology*, Vol. 39. Palo Alto, CA: Annual reviews, pp. 435-473.
- Aslin, R. N. (1988). Normative oculomotor development in human infants. In G. Lennerstrand, G. K. von Noorden, and E. C. Campos (Eds.), *Strabismus and amblyopia: Experimental basis for advances in clinical management*. London: Macmillan, pp. 133-142.
- Aslin, R. N. (1993). Perception of visual direction in human infants. In C. E. Granrud (Ed.), *Visual perception and cognition in infancy* (23rd Carnegie-Mellon symposia on cognition). Hillsdale, NJ: Erlbaum, pp. 91-119.
- Aslin, R. N. (1993). Segmentation of fluent speech into words: Learning models and the role of maternal input. In B. de Boysson-Bardies, S. de Schonen, P. Jusczyk, P. McNeilage, and J. Morton (Eds.), *Developmental neurocognition: Speech and face processing in the first year of life*. The Netherlands: Kluwer, pp. 305-315.
- Aslin, R. N. (1993). Infant accommodation and convergence. In K. Simons (Ed.), *Early visual development: Normal and abnormal*. New York: Oxford University Press, pp. 30-38.

- Aslin, R. N., Woodward, J. Z., LaMendola, N. P., and Bever, T. G. (1996). Models of word segmentation in fluent maternal speech to infants. In J. L. Morgan and K. Demuth (Eds.), *Signal to syntax: Bootstrapping from speech to grammar in early acquisition*. Hillsdale, NJ: Erlbaum, pp. 117-134.
- Aslin, R. N., Jusczyk, P. W., and Pisoni, D. B. (1998). Speech and auditory processing during infancy: Constraints on and precursors to language. In D. Kuhn & R. Siegler (Eds.), *Handbook of child psychology*, Fifth edition. *Volume 2: Cognition, perception & language* (W. Damon, series editor). New York: Wiley, pp. 147-198.
- Aslin, R. N., Saffran, J. R. and Newport, E. L. (1999). Statistical learning in linguistic and non-linguistic domains. In B. MacWhinney (Ed.), *The emergence of language*. Mahwah, NJ: Erlbaum pp. 359-380.
- Newport, E. L. and Aslin, R. N. (2000). Innately constrained learning: Blending old and new approaches to language acquisition. In S. C. Howell, S. A. Fish, & T. Keith-Lucas (Eds.), *Proceedings of the 24th annual Boston University conference on language development*. Somerville, MA: Cascadilla Press.
- Aslin, R. N. and Hunt, R. H. (2001). Development, plasticity, and learning in the auditory system. In C. A. Nelson & M. Luciana (Eds.), *Handbook of developmental cognitive neuroscience*. MIT Press, pp. 205-220.
- Aslin, R. N. (2001). Visual development, infant. In N. J. Smelser & P. B. Baltes (Eds.), *International Encyclopedia of the Social and Behavioral Sciences*, 24, 16250-5. Pergamon Press.
- Aslin, R. N. (2005). Object information, computational complexity, and constraints on action. In J. Rieser, J. Lockman, and C. A. Nelson (Eds.), *Action as an organizer of learning and development: 33rd Minnesota Symposium on Child Psychology*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Aslin, R. N. (2006). Processes of change in brain and cognitive development: The final word. In M. Johnson & Y. Munakata (Eds.), *Attention and Performance XXI: Processes of change in brain and cognitive development*. Cambridge, MA: MIT Press.
- Aslin, R. N. and Lathrop, A. L. (2008). Visual perception. In M. M. Haith and J. B. Benson (Eds.), *Encyclopedia of infant and early childhood development, Volume 3* (pp. 395-403). Oxford, UK: Elsevier.
- Aslin, R. N. (2008). The role of learning in cognitive development: Challenges and prospects. In A. Needham and A. Woodward (Eds.), *Learning and the Infant Mind*. Oxford University Press.
- Aslin, R. N., Clayards, M. A., and Bardhan, N. P. (2008). Mechanisms of auditory reorganization during development: From sounds to words. In C. A. Nelson and M.

Luciana (Eds.), *Handbook of developmental cognitive neuroscience*, 2nd edition. Cambridge, MA: MIT Press.

Aslin, R. N. and Newport, E. L. (2008). What statistical learning can and can't tell us about language acquisition. In J. Colombo, P. McCardle, and L. Freund (Eds.), *Infant pathways to language: Methods, models, and research directions*. Mahwah, NJ: Lawrence Erlbaum Associates.

Aslin, R. N. (2010). Perceptual constraints on implicit memory for visual features: Statistical learning in human infants. In L. Oakes, D. Rakison, M. Casasola, & C. Cashon (Eds.), *Infant perception and cognition: Recent advances, emerging theories, and future directions* (pp. 111-124). Oxford University Press.

Kidd, C., White, K. S., and Aslin, R. N. (2011). Learning the Meaning of “Um”: Toddlers’ developing use of speech disfluencies as cues to speakers’ referential intentions. In I. Inbal & E. Clark (Eds.), *Experience, variation, and generalization: Learning a first language* (Trends in Language Acquisition Research). Amsterdam: John Benjamins.

Aslin, R. N. (2012). Language development: Revisiting Eimas et al.’s /ba/ and /pa/ study. In A. Slater & P. C. Quinn (Eds.), *Developmental psychology: Revisiting the classic studies*. London: SAGE (pp. 191-203).

Reviews and Commentaries

Aslin, R. N. and Pisoni, D. B. (1980). Effects of early linguistic experience on speech discrimination by infants: A critique of Eilers, Gavin and Wilson (1979). *Child Development*, 51, 107-112.

Aslin, R. N. (1981). Review of M. M. Haith's "Rules That Babies Look By". *American Scientist*, 69, 342-343.

Aslin, R. N. (1982). A commentary. In G. Bronson, The scanning patterns of human infants: Implications for visual learning. *Monographs on Infancy*. Norwood, NJ: Ablex, pp. 103-131.

Aslin, R. N. and Ciuffreda, K. J. (1983). Eye movements of preschool children [Technical comment]. *Science*, 222, 74-75.

Jusczyk, P. W., Shea, S. L. and Aslin, R. N. (1984). Linguistic experience and infant speech perception: A re-examination of Eilers, Gavin, and Oller (1982). *Journal of Child Language*, 11, 453-466.

Aslin, R. N. (1993). The strange attractiveness of dynamic systems to development. In L. B. Smith & E. Thelen (Eds.), *Dynamic systems in development: Applications*. Cambridge, MA: MIT Press, pp. 385-399.

- Aslin, R. N. (1997). Commentary: Models of oculomotor variability in infancy. In R. L. Canfield, E. G. Smith, M. P. Brezsnayak, and K. L. Snow, Information processing through the first year of life: A longitudinal study using the visual expectation paradigm. *Monographs of the Society for Research in Child Development*, 62, Serial No. 250, 146-149.
- Saffran, J. R., Aslin, R. N., and Newport, E. L. (1997). Reply to five letters to the editor on the topic of "acquiring language." *Science*, 276, 1177-1181, 1276.
- Aslin, R. N. (1998). The developing brain comes of age. [Review of Mark Johnson's *Developmental Cognitive Neuroscience*]. *Early Development and Parenting*, 7, 125-128.
- Aslin, R. N. (2000). Infancy research reaches middle age. [Review of Simion and Butterworth's *The development of sensory, motor and cognitive capacities in early infancy: From perception to cognition*]. *Contemporary Psychology*, 45, 84-86.
- Tanenhaus, M. K., Magnuson, J. S., McMurray, B., and Aslin, R. N. (2000). No compelling evidence against feedback in spoken word recognition. *Brain and Behavioral Sciences*, 23, 348-349.
- Aslin, R. N. (2000). Why take the cog out of infant cognition? *Infancy*, 1, 463-470.
- Aslin, R. N., Werker, J. F., and Morgan, J. L. (2002). Innate phonetic boundaries revisited. *Journal of the Acoustical Society of America*, 112, 1257-1260.
- Magnuson, J. S., McMurray, B., Tanenhaus, M. K., and Aslin, R. N. (2003). Lexical effects on compensation for coarticulation: A tale of two systems? *Cognitive Science*, 27, 801-805.
- Aslin, R. N. and Schlagger, B. L. (2006). Is myelination the precipitating neural event for language development in infants and toddlers? *Neurology*, 66, 304-305.
- Aslin, R. N. (2008). Headed in the right direction: A commentary on Yoshida and Smith. *Infancy*, 13, 275-278.
- Aslin, R. N. (2011). Perceptual organization of visual structure requires a flexible learning mechanism. *Infancy*, 16, 39-44.
- Aslin, R. N. (2012). Infant eyes: A window on cognitive development. *Infancy*, 17, 126-140.
- Aslin, R. N. (2013). Reading and writing systems: Conveying and archiving language. *Language Learning and Development*, 9, 293-295.

Journal Articles

- Aslin, R. N. and Salapatek, P. (1975). Saccadic localization of visual targets by the very young human infant. *Perception and Psychophysics*, *17*, 293-302.
- Banks, M. S., Aslin, R. N. and Letson, R. D. (1975). Sensitive period for the development of human binocular vision. *Science*, *190*, 675-677.
- Aslin, R. N. (1977). Development of binocular fixation in human infants. *Journal of Experimental Child Psychology*, *23*, 133-150.
- Bushnell, E. W. and Aslin, R. N. (1977). Inappropriate expansion: A demonstration of a methodology for child language research. *Journal of Child Language*, *4*, 115-122.
- Muller, A. A. and Aslin, R. N. (1978). Visual tracking as an index of the object concept. *Infant Behavior and Development*, *1*, 309-319.
- Aslin, R. N. and Jackson, R. W. (1979). Accommodative-convergence in young infants: Development of a synergistic sensory-motor system. *Canadian Journal of Psychology*, *33*, 222-231.
- Fox, R., Aslin, R. N., Shea, S. L. and Dumais, S. T. (1980). Stereopsis in human infants. *Science*, *207*, 323-324.
- Shea, S. L., Fox, R., Aslin, R. N. and Dumais, S. T. (1980). Assessment of stereopsis in human infants. *Investigative Ophthalmology and Visual Science*, *19*, 1400-1404.
- Salapatek, P., Aslin, R. N., Simonson, J. and Pulos, E. (1980). Infant saccadic eye movements to visible and previously visible targets. *Child Development*, *51*, 1090-1094.
- Aslin, R. N., Pisoni, D. B., Hennessy, B. L. and Perey, A. J. (1981). Discrimination of voice onset time by infants: New findings and implications for the effects of early experience. *Child Development*, *52*, 1135-1145.
- Pisoni, D. B., Aslin, R. N., Perey, A. J. and Hennessy, B. L. (1982). Some effects of laboratory training on identification and discrimination of voicing contrasts in stop consonants. *Journal of Experimental Psychology: Human Perception and Performance*, *8*, 297-314.
- Sinnott, J. M., Pisoni, D. B. and Aslin, R. N. (1983). A comparison of pure-tone auditory thresholds in human infants and adults. *Infant Behavior and Development*, *6*, 3-17.
- Aslin, R. N. and Dobson, V. (1983). Dark vergence and dark accommodation in human infants. *Vision Research*, *23*, 1671-1678.

- Walley, A. C., Pisoni, D. B. and Aslin, R. N. (1984). Infants' discrimination of two- and five-formant voiced stop consonants differing in place of articulation. *Journal of the Acoustical Society of America*, 75, 581-589.
- Westall, C. A. and Aslin, R. N. (1984). Fixational eye movements and autokinesis in amblyopes. *Ophthalmic and Physiological Optics*, 4, 333-337.
- Shea, S. L., Doussard-Roosevelt, J. A. and Aslin, R. N. (1985). Pupillary measures of binocular luminance summation in infants and stereoblind adults. *Investigative Ophthalmology and Visual Science*, 26, 1064-1070.
- Kubaska, C. A. and Aslin, R. N. (1985). Categorization and normalization of vowels by three-year-old children. *Perception and Psychophysics*, 37, 355-362.
- Sinnott, J. M. and Aslin, R. N. (1985). Frequency and intensity discrimination in human infants and adults. *Journal of the Acoustical Society of America*, 78, 1986-1992.
- Aslin, R. N. (1986). Dark vergence in human infants: Implications for the development of binocular vision. *Acta Psychologica*, 63, 309-322.
- Shea, S. L., Aslin, R. N. and McCulloch, D. (1987). Binocular VEP summation in infants and adults with abnormal binocular histories. *Investigative Ophthalmology and Visual Science*, 28, 356-365.
- Aslin, R. N. and Shea, S. L. (1987). The amplitude and angle of saccades to double-step target displacements. *Vision Research*, 27, 1925-1942.
- Cooper, R. P. and Aslin, R. N. (1989). The language environment of the young infant: Implications for early perceptual development. *Canadian Journal of Psychology*, 43, 247-265.
- Aslin, R. N. (1989). Discrimination of frequency transitions by human infants. *Journal of the Acoustical Society of America*, 86, 582-590.
- Murphy, W. D., Shea, S. L., and Aslin, R. N. (1989). Identification of vowels in "vowelless" syllables by 3-year-olds. *Perception and Psychophysics*, 46, 375-383.
- Aslin, R. N., Shea, S. L. and Metz, H. S. (1990). Use of the Canon R-1 autorefractor to measure refractive errors and accommodative responses in infants. *Clinical Vision Sciences*, 5, 61-70.
- Aslin, R. N. and Shea, S. L. (1990). Velocity thresholds in human infants: Implications for the perception of motion. *Developmental Psychology*, 26, 589-598.
- Shea, S. L. and Aslin, R. N. (1990). Oculomotor responses to step-ramp targets by young human infants. *Vision Research*, 30, 1077-1092.

- Cooper, R. P. and Aslin, R. N. (1990). Preference for infant-directed speech in the first month after birth. *Child Development*, *61*, 1584-1595.
- Skoczenski, A. M. and Aslin, R. N. (1992). Spatiotemporal factors in infant position sensitivity: Single-bar stimuli. *Vision Research*, *32*, 1761-1769.
- Cooper, R. P. and Aslin, R. N. (1994). Developmental differences in infant attention to the spectral properties of infant-directed speech. *Child Development*, *65*, 1663-1677.
- Gerken, L. A., Murphy, W. D. and Aslin, R. N. (1995). Three- and four-year-olds' perceptual confusions for spoken words. *Perception and Psychophysics*, *57*, 475-486.
- Skoczenski, A. M. and Aslin, R. N. (1995). Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm. *Vision Research*, *35*, 1879-1888.
- Jusczyk, P. W. and Aslin, R. N. (1995). Infants' detection of the sound patterns of words in fluent speech. *Cognitive Psychology*, *29*, 1-23.
- Johnson, S. P. and Aslin, R. N. (1995). Perception of object unity in 2-month-old infants. *Developmental Psychology*, *31*, 739-745.
- Aslin, R. N. and Johnson, S. P. (1996). Suppression of the optokinetic reflex in human infants: Implications for stable fixation and shifts of attention. *Infant Behavior and Development*, *19*, 233-240.
- Johnson, S. P. and Aslin, R. N. (1996). Perception of object unity in young infants: The roles of motion, depth, and orientation. *Cognitive Development*, *11*, 161-180.
- Saffran, J. R., Newport, E. L., and Aslin, R. N. (1996). Word segmentation: The role of distributional cues. *Journal of Memory and Language*, *35*, 606-621.
- Saffran, J. R., Aslin, R. N., and Newport, E. L. (1996). Statistical learning by 8-month-old infants. *Science*, *274*, 1926-1928.
- Saffran, J. R., Newport, E. L., Aslin, R. N., Tunick, R. A., and Barrueco, S. (1997). Incidental language learning: Listening (and learning) out of the corner of your ear. *Psychological Science*, *8*, 101-105.
- Aslin, R. N., Saffran, J. R. and Newport, E. L. (1998). Computation of conditional probability statistics by 8-month-old infants. *Psychological Science*, *9*, 321-324.
- Johnson, S. P. and Aslin, R. N. (1998). Young infants' perception of illusory contours in dynamic displays. *Perception*, *27*, 341-353.
- Saffran, J. R., Johnson, E. K., Aslin, R. N., and Newport, E. L. (1999). Statistical learning of tone sequences by human infants and adults. *Cognition*, *70*, 27-52.

- Johnson, S. P. and Aslin, R. N. (2000). Infants' perception of transparency. *Developmental Psychology*, *36*, 808-816.
- Meegan, D. V., Aslin, R. N., & Jacobs, R. A. (2000). Motor timing learned without motor training. *Nature Neuroscience*, *3*, 860-862.
- Swingle, D. and Aslin, R. N. (2000). Spoken word recognition and lexical representation in very young children. *Cognition*, *75*, 1-20.
- Fiser, J. and Aslin R. N. (2001). Unsupervised statistical learning of higher-order spatial structures from visual scenes. *Psychological Science*, *12*, 499-504.
- Hauser, M. D., Newport, E. L., and Aslin, R. N. (2001). Segmentation of the speech stream in a nonhuman primate: Statistical learning in cotton top tamarins. *Cognition*, *78*, B53-B64.
- Hunt, R. H. and Aslin, R. N. (2001). Statistical learning in a serial reaction time task: Simultaneous extraction of multiple statistics. *Journal of Experimental Psychology: General*, *130*, 658-680.
- Fiser, J. and Aslin R. N. (2002). Statistical learning of higher order temporal structure from visual shape-sequences. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *28*, 458-467.
- Fiser, J. and Aslin, R. N. (2002). Statistical learning of new visual feature combinations by infants. *Proceedings of the National Academy of Sciences*, *99*, 15822-15826.
- McMurray, B., Tanenhaus, M. K., and Aslin, R. N. (2002). Gradient effects of within-category phonetic variation on lexical access. *Cognition*, *86*, B33-B42.
- Swingle, D. and Aslin, R. N. (2002). Lexical neighborhoods and word-form representations of 14-month-olds. *Psychological Science*, *13*, 480-484.
- Battaglia, P. W., Jacobs, R. A., and Aslin, R. N. (2003). Bayesian integration of visual and auditory signals for spatial localization. *Journal of the Optical Society, A*, *20*, 1391-1397.
- Coady, J. A. and Aslin, R. N. (2003). Phonological neighbourhoods in the developing lexicon. *Journal of Child Language*, *30*, 441-469.
- Magnuson, J. S., McMurray, B., Tanenhaus, M. K., and Aslin, R. N. (2003). Lexical effects on compensation for coarticulation: The ghost of Christmash past. *Cognitive Science*, *27*, 285-298.
- Magnuson, J. S., Tanenhaus, M. K., Aslin, R. N., and Dahan, D. (2003). The time course of spoken word learning and recognition: Studies with artificial lexicons. *Journal of Experimental Psychology: General*, *132*, 202-227.

- McMurray, B., Tanenhaus, M., Aslin, R. and Spivey, M. (2003). Probabilistic constraint satisfaction at the lexical/phonetic interface: Evidence for gradient effects of within-category VOT on lexical access. *Journal of Psycholinguistic Research*, 32, 77-97.
- Aslin, R. N., Battaglia, P. W., and Jacobs, R. A. (2004). Depth-dependent contrast gain-control. *Vision Research*, 44, 685-693.
- Battaglia, P. W., Jacobs, R. A., and Aslin, R. N. (2004). Depth-dependent blur adaptation. *Vision Research*, 44, 113-117.
- Newport, E. L. and Aslin, R. N. (2004). Learning at a distance: I. Statistical learning of non-adjacent dependencies. *Cognitive Psychology*, 48, 127-162.
- Creel, S. C., Newport, E. L., and Aslin, R. N. (2004). Distant melodies: Statistical learning of non-adjacent dependencies in tone sequences. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30, 1119-1130.
- Newport, E. L., Hauser, M. D., Spaepen, G., and Aslin, R. N. (2004). Learning at a distance: II. Statistical learning of non-adjacent dependencies in a non-human primate. *Cognitive Psychology*, 49, 85-117.
- Aslin, R. N. and McMurray, B. (2004). Automated corneal-reflection eye-tracking in infancy: Methodological developments and applications to cognition. *Infancy*, 6, 155-163.
- McMurray, B. and Aslin, R. N. (2004). Anticipatory eye movements reveal infants' auditory and visual categories. *Infancy*, 6, 203-229.
- Coady, J. A. and Aslin, R. N. (2004). Young children's sensitivity to probabilistic phonotactics in the developing lexicon. *Journal of Experimental Child Psychology*, 89, 183-213.
- Aslin, R. N. and Mehler, J. (2005). Near-infrared spectroscopy (NIRS) for functional studies of brain activity in human infants: Promise, prospects, and challenges. *Journal of Biomedical Optics*, 10, no. 011009.
- Gerken, L. A. and Aslin, R. N. (2005). Thirty years of research on infant speech perception: The legacy of Peter W. Jusczyk. *Language Learning and Development*, 1, 5-21.
- Aslin, R. N. and Fiser, J. (2005). Methodological challenges for understanding cognitive development in infants. *Trends in Cognitive Sciences*, 9, 92-98.
- McMurray, B. and Aslin, R. N. (2005). Infants are sensitive to within-category variation in speech perception. *Cognition*, 95, B15-B26.
- Yu, C., Ballard, D. H., and Aslin, R. N. (2005). The role of embodied intention in early lexical acquisition. *Cognitive Science*, 29, 961-1005.

- Fiser, J. and Aslin, R. N. (2005). Encoding multi-element scenes: Statistical learning of visual feature hierarchies. *Journal of Experimental Psychology: General*, *134*, 521-537.
- Creel, S. C., Aslin, R. N., and Tanenhaus, M. K. (2006). Acquiring an artificial lexicon: Segment type and order information in early lexical entries. *Journal of Memory and Language*, *54*, 1-19.
- Creel, S. C., Tanenhaus, M. K., and Aslin, R. N. (2006). Consequences of lexical stress on learning an artificial lexicon. *Journal of Experimental Psychology: General*, *32*, 15-32.
- Aslin, R. N. (2007). What's in a look? *Developmental Science*, *10*, 48-53.
- Magnuson, J. S., Dixon, J. A., Tanenhaus, M. K., and Aslin, R. N. (2007). The dynamics of lexical competition during spoken word recognition. *Cognitive Science* *31*, 1-24.
- Fiser, J., Scholl, B. J., and Aslin, R. N. (2007). Perceived object trajectories during occlusion constrain visual statistical learning. *Psychonomic Bulletin and Review*, *14*, 173-178.
- Swingley, D. and Aslin, R. N. (2007). Lexical competition in young children's word learning. *Cognitive Psychology*, *54*, 99-132.
- Clayards, M. A., Tanenhaus, M. K., Aslin, R. N., & Jacobs, R. A. (2008). Perception of speech reflects optimal use of probabilistic speech cues. *Cognition*, *108*, 804-809.
- Creel, S. C., Aslin, R. N., and Tanenhaus, M. K. (2008). Heeding the voice of experience: The role of talker variation in lexical access. *Cognition*, *106*, 633-664.
- Magnuson, J. S., Tanenhaus, M. K., and Aslin, R. N. (2008). Immediate effects of form-class constraints on spoken word recognition. *Cognition*, *108*, 866-873.
- Maye, J., Aslin, R. N., and Tanenhaus, M. K. (2008). The weckud wetch of the wast: Lexical adaptation to a novel accent. *Cognitive Science*, *32*, 543-562.
- Maye, J., Weiss, D. J., and Aslin, R. N. (2008). Statistical phonetic learning in infants: Facilitation and feature generalization. *Developmental Science*, *11*, 122-134.
- Orban, G., Fiser, J., Aslin, R. N., and Lengyel, M. (2008). Bayesian learning of visual chunks by human observers. *Proceedings of the National Academy of Sciences*, *105*, 2745-2750.
- Pirog Reville, K., Aslin, R. N., Tanenhaus, M. K., and Bavelier, D. (2008). Neural correlates of partial lexical activation. *Proceedings of the National Academy of Sciences*, *105*, 13110-13114.

- Teinonen, T., Aslin, R. N., Alku, P., & Csibra, G. (2008). Visual speech contributes to phonetic learning in 6-month-old infants. *Cognition*, *108*, 850-855.
- Pirog Reville, K., Tanenhaus, M. K., and Aslin, R. N. (2008). Context and spoken word recognition in a novel lexicon. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *34*, 1207-1223.
- McMurray, B., Aslin, R. N., Tanenhaus, M. K., Spivey, M. J., and Subik, D. (2008). Gradient sensitivity to within-category variation in words and syllables. *Journal of Experimental Psychology: Human Perception and Performance*, *34*, 1609-1631.
- McMurray, B., Clayards, M. A., Tanenhaus, M. K., & Aslin, R. N. (2008). Tracking the time course of phonetic cue integration during spoken word recognition. *Psychonomic Bulletin and Review*, *15*, 1064-1071.
- McMurray, B., Tanenhaus, M. K., & Aslin, R. N. (2009). Within-category VOT affects recovery from “lexical” garden paths: Evidence against phoneme-level inhibition. *Journal of Memory and Language*, *60*, 65-91.
- McMurray, B., Aslin, R. N., and Toscano, J. C. (2009). Statistical learning of phonetic categories: Insights from a computational approach. *Developmental Science*, *12*, 369-378.
- Gebhart, A. L., Newport, E. L., and Aslin, R. N. (2009). Statistical learning of adjacent and non-adjacent dependencies among non-linguistic sounds. *Psychonomic Bulletin & Review*, *16*, 486-490.
- Gebhart, A. L., Aslin, R. N., and Newport, E. L. (2009). Changing structures in mid-stream: Learning along the statistical garden path. *Cognitive Science*, *33*, 1087-1116.
- Aslin, R. N. (2009). How infants view natural scenes gathered from a head-mounted camera. *Optometry and Vision Science*, *86*, 561-565.
- Hunt, R. H. and Aslin, R. N. (2010). Category induction via distributional analysis: Evidence from a serial reaction time task. *Journal of Memory and Language*, *62*, 98-112.
- Gervain, J., Mehler, J., Werker, J. F., Nelson, C. A., Csibra, G., Lloyd-Fox, S., Shukla, M., and Aslin, R. N. (2011). Near-Infrared Spectroscopy: A Report from the McDonnell Infant Methodology Consortium. *Developmental Cognitive Neuroscience*, *1*, 22-46.
- Cicchino, J. B., Aslin, R. N., and Rakison, D. H. (2011). Infants’ visual experiences shape their representations of causal and self-propelled motion. *Cognition*, *118*, 171-192.
- Roser, M. E., Fiser, J., Aslin, R. N., and Gazzaniga, M. S. (2011). Right hemisphere dominance in visual statistical learning. *Journal of Cognitive Neuroscience*, *23*, 1088-1099.

- White, K. S. and Aslin, R. N. (2011). Adaptation to novel accents in toddlers. *Developmental Science, 14*, 372-384.
- Shukla, M., Wen, J., White, K. S., and Aslin, R. N. (2011). SMART-T: A system for fully automated anticipatory eye-tracking paradigms. *Behavior Research Methods, 43*, 384-398.
- Shukla, M., White, K. S., and Aslin, R. N. (2011). Prosody guides the rapid mapping of auditory word forms onto visual objects in 6-mo-old infants. *Proceedings of the National Academy of Sciences, 108*, 6038-6043.
- Bejjanki, V. R., Clayards, M., Knill, D. C. and Aslin, R. N. (2011). Cue integration in categorical tasks: Insights from audio-visual speech perception. *PLoS One, 6*, e19812. [doi:10.1371/journal.pone.0019812]
- Kidd, C., White, K. S., and Aslin, R. N. (2011). Toddlers use speech disfluencies to predict speakers' referential intentions. *Developmental Science, 14*, 925-934.
- Creel, S. C., Aslin, R. N., and Tanenhaus, M. K. (2012). Word learning under adverse listening conditions: Context-specific recognition. *Language and Cognitive Processes, 27*, 1021-1038.
- Aslin, R. N. and Newport, E. L. (2012). Statistical learning: From acquiring specific items to forming general rules. *Current Directions in Psychological Science, 21*, 170-176.
- Kidd, C., Piantadosi, S. T., and Aslin, R. N. (2012). The Goldilocks effect: Human infants allocate attention to visual sequences that are neither too simple nor too complex. *PLoS ONE, 7*(5): e36399. [doi:10.1371/journal.pone.0036399]. [Winner of best student paper in computational modeling at the annual Cognitive Science Society meeting, Portland, OR, August, 2010]
- Qian, T., Jaeger, T. F., and Aslin, R. N. (2012). Learning to represent a multi-context environment: More than detecting changes. *Frontiers in Cognitive Science, 3*:228. [doi:10.3389/fpsyg.2012.00228].
- Aslin, R. N. (2012). Questioning the questions that have been asked about the infant brain using NIRS. *Cognitive Neuropsychology, 29*, 7-33.
- Kidd, C., Palmeri, H., and Aslin, R. N. (2013). Rational snacking: Young children's decision-making on the marshmallow task. *Cognition, 126*, 109-114.
- Reeder, P. A., Newport, E. L., and Aslin, R. N. (2013). From shared contexts to syntactic categories: The role of distributional information in learning linguistic form-classes. *Cognitive Psychology, 66*, 30-54.

- Karuza, E. A., Newport, E. L., Aslin, R. N., Starling, S. J., Tivarus, M. E., and Bavelier, D. (2013). The neural correlates of statistical learning in a word segmentation task: An fMRI study. *Brain and Language*, *127*, 46-54.
- Wu, R., Scerif, G., Aslin, R. N. Smith, T., and Eimer, M. (2013). Searching for something familiar or novel: ERP correlates of top-down attentional selection for specific items and categories. *Journal of Cognitive Neuroscience*, *25*, 719-729.
- Brandone, A. C., Horwitz, S. R., Aslin, R. N., and Wellman, H. M. (2014). Infants' goal anticipation during failed and successful reaching actions. *Developmental Science*, *17*, 23-34. [doi: 10.1111/desc.12095]
- Piantadosi, S. T., Kidd, C., and Aslin, R. N. (2014). Rich analysis and rational models: Inferring individual behavior from infant looking data. *Developmental Science*, *17*, 321-337.
- Aslin, R. N. (2014). Infant learning: Historical, conceptual, and methodological challenges. *Infancy*, *19*, 2-27.
- Aslin, R. N. (2014). Phonetic category learning and its influence on speech production. *Ecological Psychology*, *26*, 4-15. [Special Issue in recognition of the contributions of Herbert L. Pick]
- Karuza, E. A., Emberson, L. L., and Aslin, R. N. (2014). Combining fMRI and behavioral measures to examine the process of human learning. *Neurobiology of Learning and Memory*, *109*, 193-206.
- Kidd, C., Piantadosi, S. T. and Aslin, R. N. (2014). The Goldilocks Effect in infant auditory attention. *Child Development*, *85*, 1795–1804 [DOI: 10.1111/cdev.12263].
- Aslin, R. N. and Newport, E. L. (2014). Distributional language learning: Mechanisms and models of category formation. *Language Learning*, *64: Cognitive Neuroscience Supplement 2*, 86–105. [Special Issue from the WILD Conference on language development, San Sebastian, Spain]
- Qian, T. and Aslin, R. N. (2014). Learning bundles of stimuli renders stimulus order as a cue not a confound. *Proceedings of the National Academy of Sciences*, *111*, 14400-14405. [doi:10.1073/pnas.1416109111]
- Aslin, R. N., Shukla, M., and Emberson, L. L. (2015). Hemodynamic correlates of cognition in human infants. *Annual Review of Psychology*, *66*, 349–79.
- Roser, M. E., Aslin, R. N., McKenzie, R., Zahra, D., and Fiser, J. (2015). Enhanced visual statistical learning in adults with autism. *Neuropsychology*, *29*, 163-172.

- Emberson, L. L., Richards, J. E., and Aslin, R. N. (2015). Top-down modulation in the infant brain: Learning-induced expectations rapidly affect the sensory cortex at 6 months. *Proceedings of the National Academy of Sciences*, *112*, 9585-9590. [doi: 10.1073/pnas.1510343112]
- Wu, R., Nako, R., Band, J., Shadravan, Y., Sherif, G., and Aslin, R. N. (2015). Rapid attentional selection of non-native visual stimuli. *Journal of Cognitive Neuroscience*, *27*, 2299-2307.
- Bejjanki, V. R., Knill, D. C., and Aslin, R. N. (2016). Learning and inference with complex generative models in a spatial localization task. *Journal of Vision*, *16*(5): 9, 1–13.
- Emberson, L. L., Crosswhite, S. L., Goodwin, J. R., Berger, A. J., and Aslin, R. N. (2016). Isolating the effects of systemic vasculature in infant neuroimaging experiments using short distance optical channels: A combination of local and global effects. *Neurophotonics*, *3*(3), 031406 [doi:10.1117/1.NPh.3.3.031406].
- Wu, R., Pruitt, Z., Runkle, M., Sherif, G., and Aslin, R. N. (2016). A neural signature of rapid category based target selection as a function of intra-item perceptual similarity, despite inter-item dissimilarity. *Attention, Perception & Psychophysics*, *78*, 749-760.
- Qian, T., Jaeger, T. F., and Aslin, R. N. (2016). Incremental implicit learning of bundles of statistical patterns. *Cognition*, *157*, 156-173.
- Piantadosi, S. T. and Aslin, R. N. (2016). Compositional reasoning in early childhood. *PLoS ONE* *11*(9): e0147734. doi: 10.1371/journal.pone.0147734.
- Karuza, E. A., Li, P., Weiss, D. J., Bulgarelli, F., Zinszer, B., and Aslin, R. N. (2016). Sampling over non-uniform distributions: A neural efficiency account of the primacy effect in statistical learning. *Journal of Cognitive Neuroscience*, *28*, 484-500.
- Goodwin, J. R., Cannaday, A. E., Palmeri, H., DiCostanzo, A., Emberson, L. L., Aslin, R. N., and Berger, A. J. (2016). Optimized methodology for acquisition of functional near-infrared spectroscopy data from alert, upright infants. *Neurophotonics*, *3* (3), 031415. doi: 10.1117/1.NPh.3.3.031415.
- Bankieris, K. R. and Aslin, R. N. (2016). Explicit associative learning and memory in synesthetes and nonsynesthetes. *iPerception* *1-12*. [doi: 10.1177/2041669516658488]
- Bankieris, K. R. and Aslin, R. N. (2017). Implicit associative learning in synesthetes and non-synesthetes. *Psychonomic Bulletin & Review*, *24*, 935-943. [doi: 10.3758/s13423-016-1162-y]
- Aslin, R. N. (2017). Statistical learning: A powerful mechanism that operates by mere exposure. *WIREs Cognitive Science*, *8*:e1373. *Special Issue on Development*. [doi: 10.1002/wcs.1373].

- Emberson, L. L., Cannon, G., Palmeri, H., Richard, J. E., & Aslin, R. N. (2017). Using fNIRS to examine occipital and temporal responses to stimulus repetition in young infants: Evidence of selective frontal cortex involvement. *Developmental Cognitive Neuroscience*, 23, 26-38. [doi.org/10.1016/j.dcn.2016.11.002]
- Emberson, L. L., Boldin, A., Riccio, J. E., Guillet, R., & Aslin, R. N. (2017). Deficits in top-down, sensory prediction in infants at-risk due to premature birth. *Current Biology*, 27, 431-436. [doi.org/10.1016/j.cub.2016.12.028]
- Emberson, L. L., Zinszer, B. D., Raizada, R. D. S., and Aslin, R. N. (2017). Decoding the Infant Mind: Multichannel Pattern Analysis (MCPA) using fNIRS. *PLoS ONE*, April 20, 12(4):e0172500. [doi: 10.1371/journal.pone.0172500].
- Emberson, L. L., Crosswhite, S. L., Richards, J. E., & Aslin, R. N. (2017). The lateral occipital cortex (LOC) is selective for object shape, not texture/color, at 6 months. *Journal of Neuroscience*, 37 (13), 3698-3703. [doi: https://doi.org/10.1523/JNEUROSCI.3300-16.2017].
- Bankieris, K. R., Bejjanki, V. R., & Aslin, R. N. (2017). Cue integration for continuous and categorical dimensions by synesthetes. *Multisensory Research*, 30, 207-234.
- Schuler, K. D., Reeder, P. A., Newport, E. L., and Aslin, R. N. (in press). The effect of Zipfian frequency variations on category formation in adult artificial language learning. *Language Learning and Development*.
- Mulak, K. E., Cory D. Bonn, C. D., Chládková, K., Aslin, R. N., & Escudero, P. (in press). Indexical and linguistic processing by 12-month-olds: Discrimination of speaker, accent and vowel differences. *PLoS ONE*.
- Emberson, L. L., Rizzieri, A., & Aslin, R. N. (in press). How visual is visual prediction? *Infancy*. [doi: 10.1111/infa.12188]
- Bergelson, E. and Aslin, R. N. (in press). Semantic specificity in one-year-olds' word comprehension. *Language Learning & Development*. [doi: 10.1080/15475441.2017.1324308]
- Reeder, P. A., Newport, E. L., and Aslin, R. N. (in press). Distributional learning of subcategories in an artificial grammar: Category generalization and subcategory restrictions. *Journal of Memory and Language*.
- Piantadosi, S. T., Palmeri, H., and Aslin, R. N. (in press). Limits on composition of conceptual operations in 9-month-olds. *Infancy*.

Manuscripts Under Review

Zinszer, B. D., Bayet, L., Emberson, L. L., Raizada, R. D. S., & Aslin, R.N. (revision under

- review). Decoding semantic representations from fNIRS signals. *Neurophotonic*.
- Bankieris, K. R., Bejjanki, V. R., & Aslin, R. N. (revision under review). Sensory cue-combination in the context of newly learned categories. *Scientific Reports*.
- Karuza, E. A., Emberson, L. L., Roser, M. E., Cole, D., Fiser, J., & Aslin, R. N. (revision under review). Neural signatures of spatial statistical learning: Characterizing the extraction of structure from complex visual scenes. *Journal of Cognitive Neuroscience*.
- Bergelson, E. and Aslin, R. N. (under review). Early (Noun) Relations: Cross-word and home-lab linkages in 6-month-olds. *Proceedings of the National Academy of Sciences*.
- Bankieris, K. R., Qian, T., & Aslin, R. N. (under review). Synesthetes as entrenched learners: Evidence from a non-stationary statistical learning task. *Memory & Cognition*.
- Bayet, L., Zinzser, B. D., Pruitt, Z., Aslin, R. N. & Wu, R. (under review). Perceptual narrowing of neural representations, but not target selection, when searching for faces. *Scientific Reports*.
- Schuler, K. D., Reeder, P. A., Lukens, K. R., Aslin, R. N., & Newport, R. N. (under review). Children can use distributional cues to acquire grammatical categories. *Cognition*.
- Emberson, L. L., Jaekl, P., Tadin, D., & Aslin, R. N. (revision in preparation). Visual expectation fails to increase the double-flash illusion. *Multisensory Research*.
- Starling, S. J. and Aslin, R. N. (revision in preparation). Probability learning in an uncertain world: How children adjust to changing contingencies. *Cognitive Development*.
- Wu, R., Qian, T., and Aslin, R. N. (revision in preparation). Parallel processes of instance and schema learning for novel stimuli in 9-month-olds. *Cognition*.
- Weiss, D. J., Zinszer, B. D., Poepsel, T. J., & Aslin, R. N. (revision in preparation). Stay or switch: The impact of consistency on statistical learning of multiple structures. *Cognitive Science*.