

BARBARA LANDAU Department of Cognitive Science
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I. Education

Ph.D. Psychology, University of Pennsylvania

Ed.M. Educational Psychology, Rutgers University

B.A. Sociology, University of Pennsylvania

II. Positions Held

2001- Dick and Lydia Todd Professor of Cognitive Science, Johns Hopkins University
 2018- Gilman Scholar, Johns Hopkins University
 2013-2018 Director, Science of Learning Institute, Johns Hopkins University
 2011- 2014 Vice Provost for Faculty Affairs, Johns Hopkins University
 2006-2011 Chair, Department of Cognitive Science, Johns Hopkins University
 2003 Acting Chair, Department of Cognitive Science, Johns Hopkins University

1997- 2000 Professor, Psychology and Linguistics
 Director, Cognitive Science Program, University of Delaware

1995- 1997 Associate - Full Professor, Psychology and Linguistics, University of
 Delaware

1990- 1996 Associate- Full Professor of Psychology, University of California, Irvine
 1992- 1993 Visiting Scientist, University of Pennsylvania
 Institute for Research in Cognitive Science

1983- 1991 Assistant- Associate Professor of Psychology, Columbia University
 1983 Visiting Instructor of Psychology, Princeton University
 1982- 1983 Sloan Post-Doctoral Fellow, University of Pennsylvania

Special Committees and Appointments

2017-2021 NSF Alan T. Waterman Award Committee (Chair in 2020)
 2020 External Review Committee, Cognitive Science, Dartmouth College
 2019 National Academy of Sciences, Atkinson Prize Committee
 2015-2018 Chair-Elect, Chair, and Retiring-Chair of Section J Psychology, AAAS
 2014; 2019 George Bergeron Visiting Professor in Neuroscience, Center for Brain Plasticity &
 Recovery, Georgetown University Medical Center

2009-2013 Advisory Committee, Social, Behavioral and Economic Sciences Directorate, NSF
 2013 Commission, Developmental Cognitive Neuroscience search, University of Trento,
 Rovereto, Italy

2013 U.S. Naval Academy (Annapolis), Selection panel for internal awards
 2012-2013 Steering Committee, Science of Learning Workshops, Georgetown U./ NSF
 2009-2012 Advisory Board, NSF Spatial Intelligence and Learning Center
 2008- 2013 Governing Board, Cognitive Science Society
 2006-2008 Board of Scientific Affairs, American Psychological Association
 2008 External Review Committee (Chair), Cognitive Science Program, Simon Fraser University
 2007/09 External Review Committee, IGERT, University of Pennsylvania

- 2002 Chair, Committee for the Status of Women in Arts and Sciences, Johns Hopkins University
 2000 External Review Committee, Cognitive Science Program, University of Virginia
 National Science Foundation Site Visit Team, Science and Technology Center,
 Carnegie-Mellon and University of Pittsburgh
 1999 National Science Foundation Committee of Visitors: Cognitive, Linguistic, and
 Psychological Cluster

Major outreach:

- 2011-2012 Co-curator of exhibit, Puzzles of the brain: an artist's journey through amnesia. Walters Art Museum, Baltimore, MD (September-December 2011); Morven Princeton NJ (January-June 2012).

Weblinks: http://thewalters.org/news/releases/pressdetail.aspx?e_id=283
<http://historicmorven.org/programs-events/events/exhibitions>

Press coverage: New York Times Science Section, September 19, 2011; Washington Post, September, 19, 2011.

NPR with Guy Raz, <http://m.npr.org/news/Science/141270870>

The Academic Minute, WAMC, <http://wamc.org/post-dr-barbara-landau-johns-hopkins-university-art-and-brain>

Time Magazine, The muse of memory (M. Lemonick), Nov 4, 2013; On-line version

<http://science.time.com/2013/10/24/the-woman-with-no-memory/>; full version for subscribers
<http://content.time.com/time/magazine/article/0,9171,2155608,00.html>

The New Yorker, Life lines (D. Zalewski), March 30, 2015; on-line version

<http://www.newyorker.com/magazine/2015/03/30/an-artist-with-amnesia>

Additional exhibits of LSJ science and art:

Morven, Princeton N.J. (2012)

Fenimore-Cooper Museum, Cooperstown N.Y. (2018)

III. Awards, Honors, Grants, Fellowships

A. Awards, Honors, Distinguished Speeches

- 2018 Elected Member, National Academy of Sciences
 2018 William James Fellow Award, Association for Psychological Science
 2018 Gilman Scholar, Johns Hopkins University
 2009 Fellow, American Academy of Arts & Sciences
 2009 Fellow, John Simon Guggenheim Memorial Foundation
 2008 Fellow, American Association for the Advancement of Science
 2006 Fellow, Cognitive Science Society
 2001 Fellow, Association for Psychological Science (formerly American Psychological Society)
 1999 Fellow, American Psychological Association (Divisions 3, 7)
 1990 Boyd McCandless Young Scientist Award, American Psychological Association

Distinguished invited speeches (see Invited speeches for more)

2020 Keynote, Sigma Xi, Alexandria, November 2020

2018 William James Fellow Award talk, Association for Psychological Science, San Francisco, May

2017 Rumelhart Symposium in honor of Lila Gleitman, Cognitive Science Society, London UK, July

2015 Keynote, Mapping Between Language and Perception: Theoretical Foundations. University of East Anglia, Norwich, U.K. February

2014 Boyd McCandless Memorial Lecture, Emory University, October

2014 Plenary talk, Perspectives on Spatial Cognition: 10th International Symposium of Cognition, Logic, and Communication, University of Latvia, Riga, Latvia

- 2014 Rumelhart Symposium in honor of Ray Jackendoff, Cognitive Science Society, Quebec City July.
- 2012 Cognitive Science Summer School, Language and Thought, New Bulgarian University, July 9-13, 2012 (5 lectures spanning one week)
- 2011 Plenary, Society for Philosophy and Psychology, Montreal, July
- 2011 Keynote, Cognitive Science Society, Boston, July
- 2010 Barbara Gordon Memorial Lecture. Florida International University, March
- 2009 Keynote, Space in language conference. University of Pisa, Pisa Italy, October
- 2008 Keynote, Boston University Conference on Language Development, October
- 2005 Master Lecture Series, University of Arizona (Tucson)
Keynote, Conference on Spatial Information Theory (COSIT -5), Buffalo, NY.
Horizons of Knowledge Lecture, Indiana University
- 2004 Lecture, Inauguration for Centre for Human Communication, University College, London
- 1997 European Society of Philosophy and Psychology, Plenary Session, Milan, Italy.
- 1992 Keynote, Stanford Child Language Forum. Stanford University.
- 1991 Boyd Mc Candless Young Scientist Award Address, American Psychological Association, San Francisco
- 1987 Plenary Session Address, 17th Annual Symposium of the Jean Piaget Society, Philadelphia.

B. Funding

- 2020-2023 Connecting linguistic and perceptual development through symmetry. NSF: BCS-1941014 (Co-PI; PI Trueswell)
- 2017-2020 Interactions between language and cognition in the early acquisition of spatial language NSF: BCS- 1650861 (Co-PI; PI Lakusta) (NCE, 2021)
- 2016-2020 Characterizing and improving children's block-building skills: Interdisciplinary studies using approaches from cognitive science and computer science. NSF: ID 1561278 (Co-PI; PI Shelton). Two-year no-cost extension (2019-2021).
- 2015-2025 Spatial skills in young learners. Gift to Science of Learning Institute for this project.
- 2012-2017 Science of Learning Institute. Gift to Johns Hopkins University.
- 2012-2013 IMLS National Leadership Planning Grant, Walters Art Museum (Cognitive Science partner, along with Brain Sciences Institute and Cognitive Science), "Start with Art" (pre-school arts enriched preschool curriculum). (Co-PI; declined)
- 2011-2013 Art and the brain: Effects of severe brain damage on the artist's mind. Brain Science Institute, Johns Hopkins University (PI)
- 2006-2014 IGERT/ NSF: Unifying the science of language (Co-PI; PI Paul Smolensky)
- 2005-2010 Spatial representation in Williams syndrome. NINDS RO1 NS 050876 (PI; Co-PI J. Hoffman; No-cost extension through 2011)
- 2005-2006 Functional organization of the ventral stream in typically developing children and people with Williams syndrome (with Kirsten O'Hearn). Johns Hopkins University School of Medicine General Clinical Research Center M01-RR00052 (PI)
- 2004-2007 Spatial language in Williams syndrome. March of Dimes Foundation 12-FY04-46 (PI)

- 2001-2004 Spatial cognition and spatial language in Williams syndrome. National Science Foundation BCS 0117744 (PI, Co-PI, J. Hoffman)
- 2001-2004 Spatial language in Williams syndrome. March of Dimes Foundation 12 FY0187 (PI)
- 2000-2005 The shape bias in children's word learning. NICHD RO1 HD 28675-07 (Co-PI; PI L.B. Smith)
- 1998-2000 James. A. Shannon Director's Award, Spatial language and cognition in Williams Syndrome. NIH (PI; Co-P.I., J. Hoffman) 1 R55 NS37923
- 1999-2000 High-density system for recording event-related potentials in cognitive science research. National Science Foundation (Co-P.I. with J. Hoffman, J. Whalen, and C. Phillips)
- 1998-2001 Spatial language and spatial cognition in Williams Syndrome. National Science Foundation (PI; Co-P.I., J. Hoffman) SBR-9808585
- 1999-2001 Spatial cognition: Specialization and interaction. National Science Foundation Supplement for Conference SBR-9808585 (PI)
- 1998-2000 Spatial language and spatial cognition in Williams Syndrome. March of Dimes Foundation, #12-0194 (PI)
- 1997-2000 Naming and the perception of shape in children and adults. NIMH - 1 RO1 MH55240 (PI; Co-PIs L.B. Smith and S. Jones)
- 1997-1998 General University Research Grant (University of Delaware) Spatial language and spatial cognition in individuals with Williams Syndrome
- 1996-1999 The shape bias in children's word learning. NICHD- 2 RO1 HD28675 (Co-P.I., PI L.B. Smith)
- 1992-1994 Haptic exploration, object knowledge, and spatial language in blind and sighted children. Behavioral and Social Sciences Award, March of Dimes Birth Defects Foundation. (PI)
- 1992-1995 The shape bias in children's word learning. NICHD- RO1 HD 28675 (Co-P.I., PI L.B. Smith)
- 1990-1992 Haptic exploration, object knowledge, and spatial language in blind babies. Social Sciences Research Award, March of Dimes Birth Defects Foundation (PI)
- 1988-1990 Haptic exploration and object perception in blind babies. Social and Behavioral Sciences Research Award, March of Dimes Birth Defects Foundation (PI)
- 1981-1987 Language acquisition in premature babies blind from birth. Social and Behavioral Sciences Research Grant, National Foundation-- March of Dimes. (Co-P.I. with L.R. Gleitman)
- 1984-1985 Spencer Foundation Award, Young Faculty Research Grant (PI)
- 1983-1984 Biomedical Research Grant, Columbia University

C. Fellowships

- 1982-1983 Sloan Post-Doctoral Fellow, University of Pennsylvania
- 1980-1982 Predoctoral Fellowship, Language and space in congenitally blind children. National Research Service Award #1F31 MH 0836101
- 1980-1982 Dean's Fellowship, University of Pennsylvania
- 1978-1980 University Fellowship, University of Pennsylvania

IV. Publications and Manuscripts

A. Books and edited volumes

- Landau, B. (Ed.) (2020) 2017 Rumelhart prize issue honoring Lila R. Gleitman. Topics in Cognitive Science. Wiley Online Library. <https://onlinelibrary.wiley.com>
- Landau, B. & Hoffman, J.E. (2012) Spatial representation: From gene to mind. New York: Oxford University Press.
- Landau, B. (2012) Understanding cognitive development: Approaches from mind and brain. Cognitive Neuropsychology, Special Issue. New York: Psychology Press. (Appeared as a separate volume published by Psychology Press, 2013).
- Landau, B., Sabini, J., Jonides, J., & Newport, E. (2000) Perception, Cognition, and Language: Essays in honor of Henry and Lila Gleitman. Cambridge, Mass: MIT Press.
- Gleitman, L.R. & Landau, B. (Eds.) (1994) Acquisition of the lexicon. Cambridge, Mass: MIT Press. ...First published as Gleitman, L.R. & Landau, B. (Eds.) (1994) Acquisition of the lexicon . Lingua, Special Issue, 92.
- Landau, B. & Gleitman, L.R. (1985) Language and experience: Evidence from the blind child. Cambridge, Mass: Harvard University Press.

B. Papers published

- Davis, E.E. and Landau, B. (2020) Seeing vs. seeing that: Children's understanding of direct perception and inference reports. Proceedings of Experiments in Linguistic Meaning, Linguistic Society of America.
- Davis, E.E. and Landau, B. (2020) Seeing and believing: The relationship between perception and mental verbs in acquisition. Language Learning and Development, in press.
- Ferrara, K., Seydell-Greenwald, A., Chambers, C.E., Newport, E.L. & Landau, B. (2020) Development of bilateral parietal activation for a complex visual-spatial function: Evidence from a visual-spatial construction task. Developmental Science, in press.
- Elli, G., Bedny, M., & Landau, B. (2020) "How Does a Blind Person See? Developmental Change in Applying Visual Verbs to Agents with Disabilities." PsyArXiv. June 17.
doi:10.31234/osf.io/dpgx5.
- Lakusta, L., Brucato, M., & Landau, B. (2020) Evidence for a core representation for support in early

- language development. Language Learning and Development. In press.
- Kim, J.G., Gregory, E., Landau, B., McCloskey, M., Turk-Browne, N.B., & Kastner, S. (2020) Functions of ventral visual cortex after bilateral medial temporal lobe damage. Progress in Neurobiology, *191*, 101819.
- Landau, B. (2020) Language and thought: The lexicon and beyond. To appear, L.R. Gleitman, A. Papafragou, & J. Trueswell (Eds.), The Oxford Handbook of the Mental Lexicon, Ch. 9. Oxford: Oxford University Press.
- Landau, B. (2020) Editor's introduction: 2017 Rumelhart Prize Issue honoring Lila R. Gleitman. Topics in Cognitive Science. Wiley-Blackwell.
- Bochynska, A., Vulchanova, M., Vulchanov, V., & Landau, B. (2020) Spatial language difficulties reflect the structure of intact spatial representation: Evidence from high-functioning autism. Cognitive Psychology, *116*, 101249.
- Ferrara, K., Landau, B. & Park, So. (2019) Impaired behavioral and neural representation of scenes in Williams syndrome. Cortex, *121*, 264-276.
- Seydell-Greenwald, A., Pu, S.F., Ferrara, K., Chambers, K.E., Newport, E.L., & Landau, B. (2019) Revisiting the landmark task as a tool for studying hemispheric specialization: What's really right? Neuropsychologia, *127*, 57-65.
- Rissman, L., Rawlins, K., & Landau, B. (2019) Event participants and verbal semantics: Non-discrete structure in English, Spanish, and Mandarin. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), Proceedings of the 41st Annual Conference of the Cognitive Science Society (pp. 960-966). Montreal, QB: Cognitive Science Society.
- Landau, Barbara (2019). Space in semantics and cognition. In Claudia Maienborn, Klaus von Heusinger & Paul Portner (eds.), Semantics - Typology, Diachrony and Processing, vol. 7, 341–365. Berlin: de Gruyter. doi:<https://doi.org/10.1515/9783110589825-012>. Reprint from: Klaus von Heusinger, Claudia Maienborn, Paul Portner 2012 (eds.), Semantics Vol. 3. Berlin/Boston: De Gruyter Mouton, 2805-2824.
- Landau, B. (2018) Learning Simple Spatial Terms: Core and More. Topics in Cognitive Science. Wiley-Blackwell. doi:10.1111/tops.12394
- Cortesa, C., Jones, J.D., Hager, G.D., Khudanpur, S., Landau, B. & Shelton, A. (2018) Constraints and development in children's block construction. Proceedings of the 40th Annual Conference of the Cognitive Science Society, pp. 246-251. New Orleans, LA: Cognitive Science Society.
- Newport, E.L., Landau, B., Seydell-Greenwald, A., Turkeltaub, P.E., Chambers, C.E., Dromerick, A.W., Carpenter, J., Berl, M.M., & Gaillard, W.D. (2017) Revisiting Lenneberg's hypotheses about early developmental plasticity: Language organization after left-hemisphere perinatal stroke. In Biolinguistics (Nicos), *11*, 407-422. PMID: [30556058](https://pubmed.ncbi.nlm.nih.gov/30556058/)
- Ferrara, K., Furlong, S., Park, S., & Landau, B. (2017) Detailed visual memory capacity is present early in childhood. Open Mind: Discoveries in Cognitive Science, *1* (3), 136-147. https://doi.org/10.1162/opmi_a_00014
- Seydell-Greenwald, A., Ferrara, K., Chambers, C.E., Newport, E.L., & Landau, B. (2017) Bilateral parietal activations for complex visual-spatial functions: Evidence from a visual-spatial

- construction task. Neuropsychologia, 106, 194-206.
<http://dx.doi.org/10.1016/j.neuropsychologia.2017.10.005>
- Kamps, F.S., Julian, J.B., Battaglia, P., Landau, B., Kanwisher, N., Dilks, D.D. (2017) Dissociating intuitive physics from intuitive psychology: Evidence from Williams syndrome. Cognition, 168, 146-153. <http://dx.doi.org/10.1016/j.cognition.2017.06.027>
- Cortesa, C.S., Jones, J.D., Hager, G.D., Khudanpur, S., Shelton, A.L. & Landau, B. (2017) Characterizing spatial construction processes: Toward computational tools to understand cognition. In G. Genzelmann, A. Howes, T. Tenbrink, & E.J. Davelaar (Eds.), Proceedings of the 39th Annual Conference of the Cognitive Science Society, pp. 246-251. Austin, TX: Cognitive Science Society.
- Srinivas, S., Landau, B. & Wilson, C. (2017). Adapting to a listener with incomplete lexical semantics. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. J. Davelaar (Eds.), Proceedings of the 39th Annual Conference of the Cognitive Science Society(pp. 3235-3240). Austin, TX: Cognitive Science Society.
- Johannes, K., Wilson, C., & Landau, B. (2016) The importance of lexical verbs in the acquisition of spatial prepositions: The case of *in* and *on*. Cognition, 157: 174-189. PMID 27643981 DOI: 10.1016/j.cognition.2016.08.022
- Johannes, K., Wilson, C., & Landau, B. (2016). Systematic feature variation underlies adults' and children's use of *in* and *on*. Proceedings of the 38th Annual Conference of the Cognitive Science Society. pp. 2429-2434.
- Ferrara, K., Hoffman, J.E., O'Hearn, K., & Landau, B. (2016) Constraints on multiple-object tracking: How atypical development can inform theories of visual processing. Journal of Cognition and Development, 1-22. DOI: 10/1080/15248372.2016.1195389.
- Landau, B. (2016) Update on 'What' and 'where' in spatial language: A new division of labor for spatial terms. Cognitive Science. DOI: 10.1111/cogs.12410
- Gregory, E., McCloskey, M. Ovans, Z., & Landau, B. (2016) Declarative memory and skill-related knowledge: Evidence from a case study of amnesia and implications for theories of memory. Cognitive Neuropsychology. <http://dx.doi.org/10.1080/02643294.2016.1172478>
- Landau, B., Johannes, K., Skordos, D., & Papafragou, A. (2016) Containment and support: Core and complexity in spatial language learning. Cognitive Science. doi: 10.1111/cogs.12389
- Ferrara, K., Silva, M., Wilson, C. & Landau, B. (2015) Spatial language and the embedded listener model in parents' input to children. Cognitive Science, 1-34. doi: 10.1111/cogs.12328
- Ferrara, K. and Landau, B. (2015) Geometric and featural systems, separable and combined: Evidence from reorientation in people with Williams syndrome. Cognition, 144, 123-133.
- Johannes, K., Wang, J., Papafragou, A. & Landau, B. (2015) Similarity and variation in the distribution of spatial expressions across three languages. Proceedings of the 37th Annual Meeting of the Cognitive Science Society, Austin, TX, pp. 997-1002.
- Rissman, L., Rawlins, K., and Landau, B. (2015) Using instruments to understand arguments: Evidence for gradient representation. Cognition, 142, 266-290.

- Landau, B. and Gleitman, L.R. (2015) Height matters. In Toivonen, I., Csúri, P., van der Zee, E. (Eds.) Structures in the mind: Essays on language, music, and cognition in honor of Ray Jackendoff. Cambridge, Mass: MIT Press.
- Lewis, S. and Landau, B. (2015) Language development in children with Williams syndrome: Genes, modularity, and the importance of development. In E. Bavin and L. Naigles (Eds.), The Cambridge Handbook of Child Language, 2nd Edition. Cambridge University Press.
- Valtonen, J., Gregory, E., Landau, B., & McCloskey, M. (2014) New learning of music after bilateral medial temporal lobe damage: evidence from an amnesic patient. Frontiers in Human Neuroscience, 8, Article 694, September 2014. Vol 8, p. 1-10. doi: 10.3389/fnhum.2014.00694
- Gregory, E., McCloskey, and Landau, B. (2014) Profound loss of general knowledge in retrograde amnesia: evidence from an amnesic artist. Frontiers in Human Neuroscience, 5, May 2014. Vol. 8, p. 1-10. doi: 10.3389/fnhum.2014.00287.
- Libertus, M., Feigenson, L., Halberda, J., and Landau, B. (2014) Understanding the mapping between numerical approximation and number words: Evidence from Williams syndrome and typical development. Developmental Science, pp. 1-15. doi: 10/1111/desc.12154
- Schapiro, A., Gregory, E., Landau, B., McCloskey, M., & Turk-Browne, N., (2014). The necessity of the medial temporal lobe for statistical learning. Journal of Cognitive Neuroscience, 26 (8), 1736-1747. doi:10.1162/jocn_a_00578
- Landau, B. & Ferrara, K. (2013) Space and Language in Williams syndrome: Insights from normal development. WIREs Cognitive Science. doi: 10.1002/wcs.1258. PMID: PMC4019450
- Dessalegn, B. & Landau, B. (2013) Interaction between language and vision: It's momentary, abstract, and it develops. Cognition, 127, 331-344.
- Yoshida, T., Dillon, M., Beck, G., Rapp, B., & Landau, B. (2013) Tactile localization on digits and hand: Structure and development. Psychological Science, 20 (10), 1-11. PMID: PMC4275844 NIHMSID: NIHMS624850
- Dessalegn, B., Landau, B., Rapp, B. (2013) Consequences of severe visual-spatial deficits for reading acquisition: Evidence from Williams syndrome. Neurocase, 19 (4), 328-347. DOI:10.1080/13554794.2012.667127. PMID: 22583550
- Rissman, L., Legendre, G., & Landau, B. (2013) Abstract morphosyntax in two and three year- old children: Evidence from priming. Language Learning and Development, 9, (3) 278-292.
- Landau, B. (2012) Editorial overview. In Landau, B. (Ed.), Cognitive Neuropsychology, Special Issue: Understanding cognitive development: Approaches from mind and brain. 1-27.
- Musolino, J. & Landau, B. (2012) Genes, language, and the nature of scientific explanations: The case of Williams syndrome. In Landau, B. (Ed.), Cognitive Neuropsychology, Special Issue: Understanding cognitive development: Approaches from mind and brain. 1-27. PMID: PMC3478137
- Gleitman, L.R. & Landau, B. (2012) Every child an isolate: nature's experiments in language learning. In Piatelli-Palmarini, M. & Berwick, R.C. (Eds.), Rich languages from poor inputs. Oxford University Press.
- Faria, A.F., Landau, B., O'Hearn, K, Li, X. ,Jiang, H., Zhang, J., Oishi, K., Zhang, J., Susumu, M. (2012) Quantitative Analysis of Gray and White Matter in Williams

- Syndrome, *Neuroreport*, 23 (5), 283-289. PMID: 22410548 , PMCID: PMC3305911
- Lakusta, L., & Landau, B. (2012) Language and memory for motion events: Origins of the asymmetry between source and goal paths. *Cognitive Science*, 36 (3), 517-544. PMID: 22257087
- Landau, B. (2012) Space in semantics and cognition: Three themes. In C. Maienborn, K. von Heusinger, Claudia Maienborn, Paul Portner 2012 (eds.), *Semantics Vol. 3*. Berlin/Boston: De Gruyter Mouton, 2805-2824.
- Gregory, E., Landau, B., & McCloskey, M. (2011) Representation of object orientation in children: Evidence from mirror image confusions. *Visual Cognition*, 19 (8), 1035-1062. NIMH MSID #332409, PMID: 22162941, PMC3233365.
- Landau, B. (2011) The organization and development of spatial cognition: Insights from Williams syndrome. In J. Burack, R.M. Hodapp, G. Iarocci, & E. Zigler (Eds.), *The Oxford Handbook of Intellectual Disabilities and Development*, 2nd Ed. New York: Oxford University Press.
- Landau, B. (2011) Review of *The Mind's Eye* by Oliver Sachs. *Journal of Clinical Investigation*, 121(4) (April), 1230. PMCID: PMC3068980
- O'Hearn, K., Hoffman, J., & Landau, B. (2011) Small subitizing range in people with Williams syndrome. *Visual Cognition*, 19 (3), 289-312. PMCID: PMC3080704, PMID: 21516186
- O'Hearn, K., Roth, J.K., Courtney, S.M., Luna, B., Street, W., Terwillinger, R., & Landau, B. (2010) Object recognition in Williams syndrome: Uneven ventral stream activation. *Developmental Science*, 1-17. PMCID: PMC3080704, PMID: 21477194
- Lakusta, L, Dessalegn, B., & Landau, B. (2010) Impaired geometric reorientation caused by genetic defect. *Proceedings of the National Academy of Sciences*, 107, 2813-2817. PMCID: PMC2840366
- Musolino, J. & Landau, B. (2010) When theories don't compete. Response to Thomas, Karaminis, & Knowland's Commentary on Musolino, Chunyo, and Landau. *Language Learning and Development*, 6(2), 170-178.
- Musolino, J., Chunyo, G., & Landau, B. (2010) Uncovering knowledge of core syntactic and semantic principles in individuals with Williams Syndrome. *Language learning and Development*, 6 (2), 126-161. NIHMS #304860 PMCID: PMC3159170
- Landau, B., Dessalegn, B., & Goldberg, A.M. (2010) Language and space: Momentary interactions. In P. Chilton and V. Evans (Eds.), *Language, cognition, and space: The state of the art and new directions*. *Advances in Cognitive Linguistics Series* (Ed. V. Evans, B. Bergen, J. Zinken), p. 51-78. London: Equinox Publishing.
- O'Hearn, K., Hoffman, J., & Landau, B. (2010) Developmental profiles for multiple object tracking and spatial memory: typically developing preschoolers and people with Williams syndrome. *Developmental Science*, 13(3), 430-440. PMCID: PMC2927133
- Munnich, E. & Landau, B. (2010) Developmental decline in the acquisition of spatial language. *Language Learning and Development*, 6(1), 32-59.
- Landau, B. (2009) The importance of the nativist-empiricist debate: Thinking about primitives without

- primitive thinking. Child Development Perspectives, 3, 122-141. PMID: PMC Journal-In Process
- Landau, B. and Lakusta, L. (2009) Spatial representation across species: Geometry, language, and maps. Current Opinion in Neurobiology, 19, 1-8. PMID: PMC2745626
- Landau, B. (2009) Spatial language, spatial cognition: Origins, development, and interaction. Keynote address. Proceedings of the Boston University Conference on Language Development, Volume 33, Brookline, Mass: Cascadilla Press.
- Lee, J., Okamura, A., Landau, B (2009) Haptics as an aid to copying for people with Williams Syndrome. In Third Joint EuroHaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (World Haptics), 356-361. (Refereed conference publication)
- Palomares, M., Landau, B., & Egeth, H. (2009) Orientation perception in Williams syndrome: Discrimination and integration. Brain and Cognition, 69, 495-503. PMID: PMC2702465
- O'Hearn, K., Courtney, S., Street, W., & Landau, B. (2009) Working memory impairment in people with Williams syndrome: Effects of delay, task, and stimuli. Brain and Cognition, 69, 495-503. PMID: PMC2745717
- Palomares, M., Ogbonna, C., Landau, B. & Egeth, H. (2009) Normal susceptibility to visual illusions in abnormal development: evidence from Williams Syndrome. Perception, 38(2), 186-199. PMID: PMC2745710
- Palomares, M., Landau, B., & Egeth, H. (2008). Visuospatial interpolation in typically developing children and people with Williams Syndrome. Vision Research, 48 (23-24), 2439-2450. PMID: PMC2577723
- Dessalegn, B. & Landau, B. (2008) More than meets the eye: The role of language in binding visual properties. Psychological Science, 19 (2), 189-195. PMID: PMID: 18271868
- Dilks, D., Hoffman, J.E., & Landau (2008) Vision for perception and vision for action: Normal and unusual development. Developmental Science, 11(4), 474-486.
- Landau, B., & Hoffman, J.E. (2007) Explaining selective spatial breakdown in Williams syndrome: Four principles of normal development and why they matter. In J. Plumert and J. Spencer (Eds.), The emerging spatial mind. Oxford: Oxford University Press.
- Lakusta, L., Wagner, L., O'Hearn, K., & Landau, B. (2007) Conceptual foundations of spatial language: Evidence for a goal bias in infants. Language Learning and Development, 3 (3), 179-197..
- O'Hearn, K. & Landau, B. (2007) Mathematical skill in individuals with Williams syndrome: Evidence from a standardized mathematics battery. Brain and Cognition, 64, 238-246. PMID: PMC2104493
- Landau, B., Hoffman, J.E. and Kurz, N. (2006) Object recognition with severe spatial deficits in Williams syndrome: Sparring and breakdown. Cognition, 100(3), 483-510.
- Reiss, J., Hoffman, J.E., & Landau, B. (2005) Motion processing specialization in Williams syndrome. Vision Research, 45, 3379-3390.
- O'Hearn, K., Landau, B., & Hoffman, J.E. (2005) Multiple object tracking in people with Williams

- syndrome and in normally developing children. Psychological Science, 16(11), 905-912.
PMCID: PMC2700022
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V. Presentations

A. Invited Talks (separate listing under Distinguished Invited Speeches, p. 2 cv)

Colloquium, University of Arizona, Tucson, February 2020
National Academy of Sciences Writers' Workshop (STEM and Hollywood writers), Tuscon, July 2019
Workshop on statistical learning, Haskins Laboratories, New Haven Conn, Dec. 2018
NeuroIPS Workshop on visually grounded interaction and language, Montreal, Dec. 2018
Wallace Symposium, Center for Talented Youth, Baltimore, MD, April 2018
University of Trondheim, Norway, Workshop on spatial language, December 2017
Kavli Institute, Trondheim Norway, December 2017
University of Connecticut, September, 2017
Rumelhart Symposium, Cognitive Science Society, July 2017
Society for Philosophy and Psychology, Baltimore, June 2017
Colloquium, Boston University, March 2017
Society for Language Development, Boston U., November 2016
Spatial Cognition Symposium, Penn State, May 2016
Origins project workshop, Arizona State U., March 2016
Workshop on spatial language, UCSD, January 2016
Conference on the evolution of language, U. of Trento, Italy, November 2015
Workshop on spatial language, UCSD, January 2015
Plasticity series, Georgetown University, December 2014
Colloquium, Temple University, April 2014
Workshop on spatial language, UCSD, January 2014
Colloquium, Georgetown University, September 2013
University of Trento, Center for Mind/Brain, Italy, June 2013
Workshop on spatial memory: Bayes and beyond, U. of Richmond, May 2013
Symposium on spatial development, SRCD, April 2013
Colloquium, Montclair State University, March 2013
Workshop on spatial development, UCSD, January 2013
Cognitive Science Summer School (course on language and thought), New Bulgarian University, July 2012 (5 lectures).
Colloquium, U. of Pennsylvania Institute for Cognitive Science, November 2011.
Workshop, Language-Action Integration for Artificial Agents: Integrating vision, action, and language. Association for the Advancement of Artificial Intelligence, San Francisco, August 2011.
Panelist, Workshop on spatial language interpretation and generation, Cognitive Science Society, Boston July 2011
Plenary, Society for Philosophy and Psychology, Montreal, July 2011
Keynote, Cognitive Science Society, Boston, July 2011
Symposium on variation in language acquisition. University of Chicago, April 2011.
A.P.A. Leadership conference, Washington, D.C., November 2010.
Science of the Arts panelist, Johns Hopkins University, Baltimore, MD., October 2010.
Mind Brain Institute, Johns Hopkins University, Baltimore, MD., October 2010.
Women in Cognitive Science, at Cognitive Science Society, Portland, Oregon, August 2010.
Biology of language. Cold Spring Harbor Labs, May 2010.
Barbara Gordon Memorial Lecture. Florida International University, March 2010.
Conference in honor of Carol Chomsky (with L.R. Gleitman), MIT, Cambridge, Mass, December 2009
MIT Brain and Cognitive Sciences, Colloquium, November 2009
Keynote, Space in language conference. University of Pisa, Pisa Italy, October 2009
Evolution/Development/Cognition Conference, Center for Mind/Brain, University of Trento, Italy,

June 2009

Symposium on spatial language, SRCD , April 2009
Symposium on spatial cognition, SRCD , April 2009
Vassar College, Colloquium, April 2009
Villanova University, Colloquium, February 2009
University of Maryland Linguistics, Colloquium, December 2008
Keynote, Boston University Conference on Language Development, November 2008
Florida Atlantic University, Colloquium, February 2008
Ohio State University, Colloquium, February 2008
Washington University, St. Louis, Invited speaker, Language and perception conference, March 2008
Kent State University, Colloquium, March 2008
Northwestern/ University of Chicago, Invited speaker, Spatial intelligence and learning center conference on spatial language and cognition, June 2008
Specialization and breakdown in spatial representations. Lecture to Science of Learning Center, University of Chicago, October 2007
Specialization and breakdown in spatial representations: Evidence from Williams syndrome. Symposium on the dorsal/ventral distinction. S.R.C. D., April 2007.
The importance of the nativist/empiricist dialogue: Understanding genes, brains, minds, and development. Symposium on substantive interactionism. S.R.C.D., April 2007.
Starting at the end: Source and goal in spatial language and spatial cognition. State University of NY, Buffalo, March 2007.
Failure to represent geometry in people with Williams syndrome. Special session, How geometric information is represented and used. Psychonomic Society, Houston, November 2006.
Specialization and breakdown in spatial representation: Genes, minds, brains, and development. Cognitive Science Institute, University of Minnesota, August 2006.
Parallels in Path Structure. Cognitive Science Program, University of Arizona, December 2005.
Specialization and breakdown in spatial representation: Mind, Brain, Development. Master Lecture, University of Arizona, December 2005.
Spatial language, spatial thought: Parallels in Path Structure. Keynote speech, Conference on Spatial Information theory (COSIT-5) 2005, Buffalo, NY.
Cognitive Science Program, University of Arizona, December 2005.
Specialization and breakdown in spatial representation: Mind, Brain, and Development. Horizons of Knowledge Lecture, Indiana University, April 2005
Starting at the end: The role of source and goal in spatial language and its development. Indiana University, Speech and Hearing Sciences, April 2005.
Pediatric Neurology Grand Rounds, Johns Hopkins University, March 2005.
How we talk about what we see. Inauguration, Centre for Human Communication, University College, London, June 2004.
Spatial representation in Williams syndrome. Centre for Developmental Language Disorders and Cognitive Neuroscience, University College London, June 2004.
Colloquia 2001-2004: Ohio State University, U. of Maryland, Columbia University, Yale University, Harvard University
Invited talks at conferences: Space and Language, CNRS, Paris, February 2003
Space and Language, Johns Hopkins University (organizer), September, 2003
Space and embodiment, Indiana University, October 2003
Talks in Symposia: Conference on Human Development, Washington DC, May 2004
Spatial language and spatial cognition: The role of axial and vector representations. Workshop on Axes and Vectors in Language and Space. University of Lincolnshire & Humberside, U.K. , July 2000.
Spatial cognition and spatial language in Williams Syndrome. Conference on Spatial Cognition, University of Chicago. October, 1999.
Spatial cognition and spatial language in Williams Syndrome. Johns Hopkins University, October 1999.
Symposium on Spatial Cognition. Cognitive Science Society. August 1999.
Conference on Concepts and Categories. Unilever, England. March, 1999.

Multiple Modalities and Multiple Frames of Reference for Spatial Knowledge. University of California, Santa Barbara. February 1999.

Colloquium, Cognitive Science, Rutgers University. November 1998.

Grounding Word Meaning. Cognitive Science Society. Madison, Wisconsin, July 1998.

“Whither Whorf?” Workshop on Language and Cognition. Northwestern University, May 1998.

Cognitive Science Department, Johns Hopkins, December 1997

European Society of Philosophy and Psychology, Plenary Session, Milan, Italy, August 1997.

Institute on the Teaching of Psychology, American Psychological Society, Washington, D.C., May, 1997.

Colloquium, MIT Brain and Cognitive Sciences. May, 1997

Colloquium, Northwestern University, April 1997.

Discussant, Spatial representation in blind children. Society for Research in Child Development, Washington, D.C., April, 1997.

Learning a shape bias: Longitudinal evidence (with Smith & Jones) Society for Research in Child Development, Washington, D.C., April, 1997.

Some complexities of using reference systems to talk about location. Navigation Workshop. Third Annual Workshop, Cambridge Basic Research, Nissan. Cambridge, Mass., June, 1996.

How we talk about objects and places: Theoretical and empirical considerations. The Carver Symposium: Thinking about the brain. Vision, concepts, and language. University of Iowa, April, 1996.

Colloquium, University of Arizona, January, 1996.

Language and experience: Retrospective and prospective. Mary Kitzinger Trust Symposium on Blindness and Child Development, University of Warwick, UK, September, 1995.

Language and space: Challenges to cognitive science. Workshop on Representation and Processing of Spatial Expressions, International Joint Conference on Artificial Intelligence, Montreal, August, 1995.

Universals in spatial language. Symposium on children's understanding of graphic and linguistic representations of space. Society for Research in Child Development, Indianapolis, Indiana, March, 1995.

Colloquium, Princeton University, February, 1995.

Representations of objects in languages and language learners. Conference on Space and Language, University of Arizona, March, 1994.

Object shape and object name in children. Symposium on visual object conceptualization. Psychonomic Society, Washington, D.C., 1993.

Ontology and perception, object kind and object naming. Twenty-fifth Annual Stanford Child Language Research Forum. Stanford, Ca., April 1993.

Learning to talk about objects and places: Some problems and some solutions. Colloquia, Princeton University; University of Pennsylvania, 1992-93.

Experience and language. Workshop on lexical learning. University of Pennsylvania, January, 1992.

The early development of spatial cognition and spatial language. Symposium on Spatial Cognition in Infancy, Society for Research in Child Development, April 1991.

The Role of Women in Cognitive Science. Ohio State University, April 1991.

Society for Philosophy and Psychology, University of Maryland, June 1990.

Colloquia, Brown University; Rutgers University, 1990.

Objects and places: Geometric and syntactic representations in early lexical learning. New York Child Language Group. New York, May 1989.

Some problems of learning the lexicon from observations of the world. Colloquia, Brandeis University, 1987; Rutgers University, 1988

Psycholinguistics Circle of New York, New York University, 1988

From syntax to meaning in first language learning. Symposium on Theoretical Approaches in the Acquisition of Grammar. Boston University Conference on Language Development, 1986.

Syntactic supports for verb learning. Tutorial on recent work in linguistics. Society for Philosophy and Psychology, Baltimore, 1986.

Language learning in the blind child. Colloquium, Indiana University, Bloomington, 1986.

- Recruiting syntactic information in learning verb meanings: A developmental view. International Linguistics Association, New York, 1986.
- Learning the meanings of visual verbs: Contributions from spatial and linguistic knowledge. Symposium on Language and Blindness. Boston University Conference on Language Development, 1985.
- The development of knowledge in the blind. Teachers' College, Columbia University, New York, 1984.
- Learning words from context: What could it mean? New York Child Language Group, New York, 1984.

C. Papers presented at scientific meetings

- Pasquinelli, R., Lakusta, L., Landau, B. (2020). Will it fall? Is it on? Children and adults use physical knowledge to inform linguistic expressions of support relations. Poster, virtual International Congress of Infant Studies.
- Wodzinski, A., Moya, G., Lakusta, L. & Landau, B. (2020). The language of support: Parents' verb uses in descriptions of support. Poster, virtual International Congress on Infant Studies, July.
- Lakusta, L., Wefferling, J., Hussein, Y., Wodzinski, A. & Landau, B. (2020). Getting Support for 'Support': The Privileging of 'Support-From-Below' in Early Spatial Language Acquisition. Symposium paper, L. Lakusta (chair), Learning 'hard words': The role of conceptual representations when the tough gets tougher. Virtual International Congress on Infant Studies, July.
- Davis, E.E. & Landau, B. (2020) What counts as seeing? Young children's understanding of perceptual reports. Cognitive Science Society, July (virtual).
- Davis, E.E. & Landau, B. (2020) Seeing vs. seeing that: Children's understanding of direct perception and inference reports. ELM, September (virtual).
- Lakusta, L., Wefferling, J., Hussein, Y., & Landau, B. (2019) Delineating the semantic space for support (ON) in early language development. Poster, Cognitive Development Society, Louisville, KY, Oct. 17-19.
- Hafri, A., Landau, B., Bonner, M., & Firestone, C. (2019) When a phone in a basket looks like a knife in a cup: Perception and abstraction of visual-spatial relations between objects. Poster, Vision Sciences Society, St. Pete Beach, FL, May 19.
- Elli, G., Bedny, M., & Landau, B. (2019) How do young children think the blind see? Paper in Symposium on linguistic and cognitive representations of information access. SRCD, Baltimore, MD, March 21-23.
- Davis, E.E., & Landau, B. (2019) Seeing vs. seeing that: Children's understanding of syntactic markers of perception and inference. Poster, SRCD, Baltimore, MD, March 21-23.
- Cortesa, C., Landau, B., & Shelton, A. (2019) Are blocks just for boys? Parental assessment reveals gender stereotypes rather than actual skill. Poster, SRCD, Baltimore, MD, March 21-23.
- Shelton, A., Cortesa, C., Hager, G., Jones, J., Khudanpur, S., & Landau, B. (2018) Action and cognition in block building. Psychonomics, New Orleans, LA., November 17.
- Cortesa, C., Shelton, A., Landau, B., Malpani, A., & Hager, G. (2018) Intuitive knowledge of children's expertise in block building. Poster, Psychonomics, New Orleans, LA, November 18.
- Davis, E. & Landau, B. (2018) Does *see that* help children learn *think that*? The intersection of perception and mental verbs in development. Poster, B.U. Conference on Language Development. Boston, Mass: November.
- Cortesa, C., Jones, J.D., Hager, G., Khudanpur, S., Landau, B., & Shelton, A. (2018) Constraints and development in children's block construction. Cognitive Science Society, Madison, WI, July.
- Lakusta, L., Brucato, M., Kobezak, H., & Iroldi, C. & Landau, B. (2018) A core concept of support for infant cognition and language learning. Symposium: Representations of support from infancy to childhood: Reasoning, categorization, and language. ICIS, Philadelphia, July.
- Landau, B. (2018) Commentary on symposium talks. Symposium: Representations of support from infancy to childhood: Reasoning, categorization, and language. ICIS, Philadelphia, July.
- Landau, B. (organizer) with Newport, E.L., Hensch, T., & Bedny, M. (2018) AAAS Symposium: Brain plasticity revisited: How special is the young brain? AAAS, Austin, Texas, February.

- Ferrara, K., Seydell-Greenwald, A., Chambers, Ca., Newport, E.L. & Landau, B. (2017) Neural and behavioral development of visual-spatial construction ability. Society for Neuroscience, Washington DC, November.
- Ferrara, K., Seydell-Greenwald, A., Newport, E.L. & Landau, B. (2017) Visual-spatial ability after perinatal stroke: Common deficits in patients with right and left-hemisphere lesions. ASNR, Baltimore, November.
- Seydell-Greenwald, A., Ferrara, K., Landau, B., Newport, E.L., Edwards, D, Dromerick, A. (2017). Rehabilitation of visual-spatial impairments after right-hemisphere stroke-- Let's not neglect what's not neglect. ASNR, Baltimore, November.
- Ferrara, K., Seydell-Greenwald, A., Newport, E., & Landau, B. (2017) Neural development of visual-spatial line-bisection ability: What's right? Poster, Cognitive Development Society, Portland, Oregon, October.
- Elli, G.V., Bedny, M., & Landau, B. (2017) How do children think blind people "see"? Developmental changes in the use of visual verbs. Poster, Cognitive Development Society, Portland, Oregon, October.
- Cortesa, C., Jones, J., Hager, G., Khudanpur, S., Shelton, A., & Landau, B. (2017) Characterizing spatial construction processes: Toward computational tools to understand cognition. Paper, Cognitive Science Society, August, London.
- Johannes, K. and Landau, B. (2017) Spatial language: Meaning, use, and lexical choice. Poster, Cognitive Science Society, August, London.
- Srinivas, S., Landau, B. & Wilson, C. (2017) Adapting to a listener with incomplete lexical semantics. Poster, Cognitive Science Society, August, London.
- Davis, E., Yang, M., Vijay, A., & Landau, B. (2017) The intersection of perception and mental verbs in development. Poster, Society for Philosophy and Psychology, June, Baltimore.
- Ferrara, K., Cohen, A., Brown, T., Miller, M., & Landau, B. (2017) Hippocampal volume and autobiographical episodic memory in Williams syndrome. SRCD Symposium on neurocognitive basis of memory. April, Austin, Texas.
- Lakusta, L., Brucato, M., Iroldi, C., Bindra, A., & Landau, B. (2017) Infants' categorization of support configurations. SRCD, Austin Texas, April.
- Ferrara, K., Greenwald, A., Landau, B. & Newport, E. (2017) Visuospatial skills in adults after perinatal stroke. Annual Gatlinburg Conference, San Antonio, Texas, March.
- Ferrara and Landau (2016). Developmental deficit in autobiographical episodic memory: Evidence from WS. Poster, Cog Sci 2016, Philadelphia PA, August.
- Ferrara, K., Landau, B., & Park, S. (2016) Neural and Behavioral Sensitivity to Boundary Cues in Williams Syndrome. Vision Sciences Society, May, St. Pete, FL.
- Lakusta, L., Brucato, M., Bindra, A., Polen, M., & Landau, B. (2016, May). The language of support in young children's spontaneous speech. Poster presented at the International Conference of Infant Studies, New Orleans.
- Brucato, M., Bindra, A., Polen, M., Lakusta, L., & Landau, B. (2016, April). The language of support in young children's spontaneous speech. Oral presentation at Montclair State University's Tenth Annual Student Research Symposium, Montclair.
- Brucato, M., Bindra, A., Polen, M., Lakusta, L., & Landau, B. (2016, March). The language of support in young children's spontaneous speech. Poster presented at the Eastern Psychological Association meeting, New York.
- Park, S., Ferrara, K., & Landau, B. (2015). Impaired behavioral and neural sensitivity to boundary cues in Williams syndrome. Poster presented at the annual meeting of the Vision Sciences Society, May, St. Petersburg, FL.
- Ferrara, K., Furlong, S., Landau, B., & Park, S. (2015). Detailed visual memory capacity is present early in life. Poster presented at the annual meeting of the Vision Sciences Society, May, St. Petersburg, FL.
- Ferrara, K., Landau, B., & Park, S. (2015) Neural and behavioral sensitivity to boundary cues in Williams syndrome. Paper, Society for Neuroscience, October, Chicago, Ill.
- Elli, G.V., Landau, B. & Bedny, M. (2015) How children reason about perception in people with different sensory experience: Evidence from verbs of perception. Poster, Cognitive Development Society, October, Columbia Ohio.

- Johannes, K., Wang, J., Papafragou, A., & Landau, B. (2015) Similarity and variation in the distribution of spatial expressions across three languages. Poster, Cognitive Science Society, July, Pasadena, CA.
- Lewis, S. and Landau, B. (2015) Parents and children prefer shared attention scenarios over follow-in labeling for word learning. Poster, SRCD, March, Philadelphia, PA.
- Furlong, S., Ferrara, K., Landau, B., & Park, S. (2015) Visual memory for objects in young children is surprisingly detailed. Poster, SRCD, March, Philadelphia PA.
- Ferrara, K., Park, S., & Landau, B. (2015) Geometric reorientation: Neural and cognitive signatures in mice and humans. Symposium, SRCD, March, Philadelphia PA.
- Kim, J., Gregory, E., Landau, B., McCloskey, M., Turk-Browne, N.B., & Kastner, S. (2014) Repetition effects in ventral visual cortex after bilateral hippocampal loss. Society for Neuroscience, November, Washington DC.
- Gregory, E., Landau, B., & McCloskey, M. (2013) Non-Hippocampal Learning of Novel Associations and Re-Learning of Previously Known Associations: Evidence From a Training Study With an Amnesic. Poster, Psychonomics Society, November, Toronto.
- Johannes, K., Wilson, C., & Landau, B. (2013) Lexical Verb Knowledge in the Development of Complex Spatial Language. Poster, Psychonomics Society, November, Toronto.
- Valtonen, J., Gregory, E., Ramirez, J., McCloskey, M., & Landau, B. (2013) Music Performance and Learning in a Severely Amnesic Patient With Bilateral Medial Temporal Lobe Damage. Poster, Psychonomics Society, November, Toronto.
- Ferrara, K., Park, S., & Landau, B. (2013) The Development of Visual Statistical Learning at the Categorical Level. Poster, Psychonomics Society, November, Toronto.
- Musolino, J., Achimova, A., & Landau, B. (2013) Logic and Felicity in the face of mental retardation: Evidence from linguistic quantification in WS. Talk, BU Conference on Child Language Development, November, Boston.
- Papafragou, A., Viau, J., & Landau, B. (2013) The ins and outs of spatial language: Places, paths, and negative spatial prepositions. Talk, BU Conference on Child Language Development, November, Boston.
- Rissman, L., Rawlins, K., & Landau, B. (2013) Talk, Workshop on semantic variation, U. of Chicago, October.
- Ferrara, K., Wilson, C., Kelliher, K., Silva, M., & Landau, B. (2013) Adapting descriptions of spatial relationships: Parents' tuning to children's spatial knowledge. Poster, Cognitive Science Society, August, Berlin.
- Kim, Jiye G., Gregory, E., Landau, B., McCloskey, M., Kastner, Sabine, & Turk-Browne, N. (2013) Ventral visual selectivity and adaptation in amnesia. Poster, VSS, May, Naples Florida.
- Halberda, J., Bavelier, D., Landau, B., Hellgren, K., Forsman, L., Jacques, T., Libertus, M. (2013). Training of Number Sense transfers broadly. Talk, VSS, May, Naples Florida.
- Johannes, K., Wilson, C., & Landau, B. (2013) Uncovering complex mappings in the acquisition of spatial language. Poster, SRCD, April.
- Ferrara, B. and Landau, B. (2013) Reorientation and spatial language. Symposium on spatial development, SRCD, April.
- Ferrara, K., Kelliher, K., Silva, M., Wilson, C., & Landau, B. (2013) Do parents adapt descriptions of spatial relationships to child knowledge? Poster, SRCD, April.
- Rissman, L., Rawlins, K., Landau, B. (2013). "Argument judgments and the nature of verbal semantic structure." 31st West Coast Conference on Formal Linguistics, February, Tempe, AZ
- Gregory, E., McCloskey, M., Kelliher, K., & Landau, B. (2012) Retrograde memory impairment encompasses everyday knowledge and expert knowledge: Evidence from an amnesic artist. Society for Neuroscience, November, New Orleans.
- Johannes, K., Wilson, C., & Landau, B. (2012) Modeling verb choice in spatial language: Refining the learning problem. Paper, Boston University Conference on Language Development, November, Boston.
- Viau, J., Landau, B., Papafragou, A. (2011) The development of spatial language: Asymmetries between Containment and Support. Poster, Boston University Conference on Language Development. November, Boston.

- Rissman, L., Rawlins, K., & Landau, B. (2011) Semantic argument structure across languages. Paper, 44th International Annual Meeting of the Societas Linguistica Europaea, included in workshop on The Argument/ Adjunct Distinction Cross-Linguistically, September, Logrono, Spain.
- Gurcanli, O., & Landau, B. (2011) Representation and acquisition of symmetrical verbs. Cognitive Science Society, July, Boston.
- Landau, B. (2011) Commentary, Symposium, On-line studies of event representation. Society for Research in Child Development, April, Montreal.
- Landau, B. and Gregory, E. (2011) Does visual-manual action have a memory? No, then yes. Symposium, Development and integration of the dorsal and ventral streams. Society for Research in Child Development, April, Montreal.
- Landau, B., Chen, M., Dillon, M.R., Beck, G., Rapp, B., & Yoshioka, T. (2010) Tactile stimulus localization ability linked to genetic deletion in people with Williams syndrome. Society for Neuroscience, November, San Diego.
- Papafragou, A., Viau, J., & Landau, B. (2010) Why it's hard to think outside the box: A new asymmetry in the use of locative prepositions. Linguistic Society of America, Baltimore, January.
- Gurcanli, O., Landau, B., & Wilson, C. (2010) Spatial factors that influence linguistic choice in English. Paper, Linguistic Society of America, Baltimore, January.
- Rissman, L., Legendre, G., & Landau, B. (2009) Abstract auxiliary BE representation: Evidence from syntactic priming. Poster, Cognitive Science Society, Amsterdam, July.
- Clements-Stephens, A., Landau, B., Palomares, M., Marchette, S., & Shelton, A. (2009) Tipping the balance: Dorsal and ventral stream processing in visuo-spatial skills. Society for Neuroscience, Chicago, November.
- Dessalegn, B. & Landau, B. (2009) Development of the interaction between language and vision. Poster, The Psychonomic Society, Boston, November.
- Bruck, M. and Landau, B. (2009) Children's reports of touching experiences. Symposium presentation, Association for Psychological Science, San Francisco, May.
- Gregory, E., Trzcinski, N., Hoffman, J., & Landau, B. (2009) The representation of action in memory: A developmental study. Poster, Vision Sciences Society, Naples, May.
- Rissman, L., Legendre, G. & Landau, B. (2009). "Abstract auxiliary BE representation in 2-yr-old children: evidence from syntactic priming." Poster, S.R.C.D., Denver, April.
- Faria AV, Landau B, O'Hearn, K., Zhang J, Oishi K, Li X, Jiang H, Akhter K, van Zijl PCM, Mori S. (2009) White Matter and Cortical Abnormalities in Williams Syndrome Detected by Diffusion Tensor Images. Poster presented at the International Society of Magnetic Resonance in Medicine, April.
- Gurcanli, O. & Landau, B. (2009) The language of joining and separating: Syntactic and semantic contributions. Paper, SRCD, Denver, April.
- Lee, J., Okamura, A., & Landau, B. (2009) Haptic training as an aid to copying in children and people with Williams syndrome. World Haptics Conference, Salt Lake City, March.
- Gurcanli, O. & Landau, B. (2008) Putting things together: How children and adults distribute spatial information across the clause. BU Conference on Child Language Development, Boston, November.
- Dessalegn, B. & Landau, B. (2008) Vision and language: Recoding of visual representations. Poster, Vision Sciences Society, Naples, May.
- Gregory, E., McCloskey, M., & Landau, B. (2008) The representation of the orientation of objects in children. Poster, Vision Sciences Society, Naples, May.
- Dessalegn, B. & Landau, B. (2007) Establishing an asymmetric relationship: How language might affect visual memory. Cognitive Development Society, Santa Fe, NM, October.
- Lakusta, L., Dessalegn, B., & Landau, B. (2007) Failure to reorient using geometry in people with Williams syndrome. Cognitive Development Society, Santa Fe, NM, October.

- Lakusta, L., & Landau, B. (2007). Goal bias in language and in non-linguistic motion event representations. Poster, Society for Research in Child Development, April, Boston.
- Dessalegn, B. & Landau, B. (2007) Language and vision: interaction between two systems. Poster, Cognitive Science Society, Nashville, July.
- Palomares, M., Egeth, H., & Landau, B. (2007) Orientation perception in Williams syndrome: Discrimination and integration. Vision Sciences Society, Sarasota, May.
- Musolino, J., Landau, B. and Chunyo, G. (2006) 'Syntax in Williams Syndrome: It's not impaired or deviant', Paper presented at the Annual Boston University Conference on Language Development. November.
- O'Hearn, K., Roth, J., Landau, B., Courtney, S. & Street, W. (2006). Occipitotemporal Activation to Faces and Houses in Williams Syndrome. Program No. 702.7. Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, November.
- Dessalegn, B. & Landau, B. (2006) Forming a stable spatial representation. International Conference on Spatial Cognition. Rome, Italy, September 2006. Abstract published in Cognitive Processing, Volume 7, Supplement 5, September, 2006.
- Landau, B. (2005) Commentary on spatial representation and development. Cognitive Development Society, San Diego, October.
- Dessalegn, B. & Landau, B. (2005) Relational language helps children bind visual properties of objects. A.P.S., Los Angeles, CA., May.
- O'Hearn, K., Landau, B., Mazzocco, M., & Huang, L. (2005) Mathematical abilities in Williams syndrome. S.R.C.D., Atlanta, GA, April.
- O'Hearn, K., Landau, B., & Hoffman, J. (2005) Subitizing in people with Williams syndrome and normally developing children. S.R.C.D., Atlanta, GA, April.
- Wagner, L., Lakusta, L., O'Hearn, K., & Landau, B. (2005). Sources, manners, and goals: The conceptual foundations of spatial language. S.R.C.D., April, Atlanta, GA.
- Le, U. and Landau, B. (2004) Movement facilitates spatial updating within imagined environments. Psychonomics Society, November, Minneapolis, MN.
- Dilks, D., Reiss, J., Hoffman, J.E. & Landau, B. (2004) Representation of orientation in Williams syndrome. Psychonomics Society, November, Minneapolis, MN.
- Ogbonna, C., Palomares, M., Landau, B., Hoffman, J. & Egeth, H. (2004) The perception of visual illusions in Williams syndrome. Annual Meeting, Vision Sciences, Society, May, Sarasota, FL.
- O'Hearn Donny, K., Landau, B., and Hoffman, J.E. (2004) Development and Breakdown in a Multiple Object Tracking Task. Psychonomic Society, Vancouver, B.C., November.
- O'Hearn Donny, K., Landau, B., Courtney, S. and Hoffman, J.E. (2004) Location and Identity in Williams Syndrome. Conference for the Vision Sciences Society, May, Sarasota, FL.
- O'Hearn Donny, K., Landau, B., and Hoffman, J.E. (2004) Multiple Object Tracking in Preschool Children. International Conference on Infant Studies, Chicago, May.
- Lakusta, L., Wagner, L., O'Hearn Donny, K., and Landau, B. (2004) Conceptual Foundations of Spatial Language: The Importance of Goals in Motion events. International Conference on Infant Studies. Chicago, May.
- Lakusta, L., Licona, L., and Landau, B. (2004) Source Path Vulnerability in Normal and Atypical Development. Conference on Human Development, Washington DC, April.
- Nicol, T., Landau, B., and Resnik, P. (2003) The role of object typicality in children's acquisition of the implicit object construction. Poster, Boston University Conference on Language Development, November, Boston, MA.
- Reiss, J. E., Hoffman, J. E., & Landau, B. (2003). Motion processing in Williams syndrome: Evidence against a general dorsal stream deficit. Poster, Annual Meeting, Vision Sciences Society, May, Sarasota, FL.
- Palomares, M., Landau, B., Hoffman, J.E., & Egeth, H. (2003). Collinear Inhibition in Williams Syndrome? Poster, Annual Meeting, Vision Sciences Society, May, Sarasota, FL.
- Lakusta, L., Licona, R., & Landau, B. (2003). Sources, goals, and the representation of events in language. Poster, Society for Research in Child Development, April, Tampa, FL.
- Dilks, D.D., Landau, B., Hoffman, J.E., & Oberg, P. (2003). Vision for action vs. perception in Williams syndrome: Evidence for developmental delay in the dorsal stream. Poster, Cognitive Neuroscience, April, New York, NY.

- Lakusta, L., Licona, R., Landau, B. (2002). The interaction between spatial representation and spatial language: The language of events. Paper, Boston University Conference on Language Development, November, Boston, MA.
- Dilks, D., Landau, B., Hoffman, J. & Siegfried, J. (2001). Selective impairment of dorsal stream in children with Williams Syndrome. Poster, Cognitive Neuroscience, April, New York, NY
- Munnich, E. & Landau, B. Maturation and second language learning: A focus on spatial semantics. Boston University Conference on Language Development, November 2000.
- Hoffman, J. E., & Landau, B. Spared object recognition with profound spatial deficits: Evidence from children with Williams Syndrome. Poster presented at the Cognitive Neuroscience Society, San Francisco. April, 2000.
- Jordan, H., Reiss, J. E., Hoffman, J. E., & Landau, B. Preserved perception of biological motion in the face of severely impaired spatial cognition: Evidence from Williams Syndrome. Poster presented at the Cognitive Neuroscience Society, San Francisco. April, 2000.
- Zukowski, A., Schwartz, D., & Landau, B. Spatial terms in children with Williams Syndrome. Boston University Conference on Language Development, November 1999.
- Hoffman, J., Landau, B., & Pagani, J. Eye-movements during block construction tasks in Williams Syndrome children. Psychonomics Society, November 1998.
- Kim, M., Landau, B., & Phillips, C. Cross-linguistic differences in children's syntax for locative verbs. B.U. Conference on Language Development, November 1998.
- Zukowski, A., & Landau, B. Spatial language in Williams Syndrome. Boston University Conference on Language Development, November 1998.
- Munnich, E., Landau, B., & Doshier, B. Spatial universals in language and thought: A cross-linguistic investigation. Psychonomics Society, November 1997.
- Li, P., Gleitman, L.R., Landau, B., & Gleitman, H. Space for thought. Boston University Conference on Language Development, B.U., November 1997.
- Smith, L., Jones, S., & Landau, B. Learning how to learn words. Boston University Conference on Language Development, B.U., November 1997.
- Kim, M. & Landau, B. Cross-linguistic acquisition of locative verbs. Harvard Conference on Korean Linguistics, June 1997.
- Landau, B. Perception and knowledge in early object naming. Symposium on lexical learning. International Conference on Infant Studies, Providence, April 1996.
- Landau, B. & Shipley, E. Object naming and category boundaries. Boston University Conference on Language Development, B.U., November 1995.
- Landau, B., Smith, L., & Jones, S. Object shape, object function, and object name. Society for Research in Child Development, Indianapolis, Indiana, March 1995.
- Subrahmanyam, K. & Landau, B. Object perception is modulated by syntax. Stanford Child Language Research Forum, Stanford University, April 1994.
- Subrahmanyam, K. & Landau, B. Perceptual properties and the learning of count and mass nouns. Society for Research on Child Development, New Orleans, 1993.
- Jones, S., Smith, L., & Landau, B. & Gershkoff-Stowe, L. On the origins of the shape bias in young children's novel word extensions. B.U. Conference on Language Development, Boston, 1992.
- Landau, B., Leyton, M., Lynch, B., & Moore, C. Rigidity, malleability, object kind, and object naming. Psychonomic Society, St. Louis, 1992.
- Smith, L., Jones, S., & Landau, B. Words block children's attention to the functions of complex artifacts. Psychonomic Society, St. Louis, 1992.
- Landau, B., Jones, S. & Smith, L. Syntactic context affects the shape bias in learning new words. Psychonomic Society, New Orleans, 1990.
- Landau, B. The representation of objects and places in languages and in early language learning. B.U. Conference on Language Development, Boston, 1990.
- Landau, B., Stecker, D. & Sorich, L. Geometric concepts in young children's uses of in and on. International Conference on Infant Studies, Montreal, 1990.
- Landau, B. Spatial knowledge of objects in the young blind child. International Conference on Infant Studies, Montreal, 1990.
- Kohn, A. & Landau, B. Buoyancy judgments reveal early knowledge of density. Jean Piaget Society, Philadelphia, 1989.

- Landau, B. (Symposium organizer) Objects and Places: Syntactic-semantic mapping in early lexical learning. Symposium on Constraints in Language Learning and Concept Development. AAAS, San Francisco, 1989.
- Landau, B. Object exploration and perception in the blind toddler. International Conference on Infant Studies, Washington, D.C., 1988.
- Kohn, A. & Landau, B. Does children's concept of density develop? A study of sinking and floating. Jean Piaget Society, Philadelphia, 1987.
- Jones, S., Landau, B., & Smith, L. The importance of shape in early lexical learning. E.P.A., New York, 1986.
- Kohn, A. & Landau, B. Linguistic information as an aid to learning word meanings: the case of homonyms. E.P.A., New York, 1986.
- Landau, B. & Lederer, A. Wholes and parts in the early lexicon. E.P.A., Boston, 1985.
- Gerken, L. & Landau, B. Evidence for an open class/ closed class distinction in the speech of two year-olds. E.P.A., Boston, 1985.
- Park, S., Tsukagoshi, K. & Landau, B. Young children's misnaming of colors: An hypothesis and some evidence. S.R.C.D., Toronto, 1985.
- Knapp, L., Gleitman, H., & Landau, B. Spatial inferences with and without vision. E.P.A., Baltimore, 1984.
- Landau, B. Rotations and translations in infancy. International Conference on Infant Studies, New York, 1984.
- Landau, B. Early map use by a congenitally blind child. A.P.A., Washington, D.C., 1982.

VI. Professional Activities and Service to the Field

- Associate Editor, Open Mind (new open access journal, MIT Press) (2016- 2020)
- Associate Editor, Cognitive Critique (2009- present)
- Editorial Board, Cognition (1985-2014)
- Editorial Board, Spatial Cognition and Computation (1998- 2013)
- Editorial Board, Language Learning and Development (2002-present)
- Consulting Editor, American Journal on Mental Retardation (2008- present)
- Board of Reviewers, Cognitive Science (2003- 2005)

- Panels: NIH, Cognition-Perception, 2007
- NIDCD, Special Emphasis Panel, 1998
- NIH, Communication Sciences Panel, 1999
- NIH, BBBP-4 Panel, 1999
- NSF, Learning and Intelligent Systems (LIS) Panel, 1998
- NIH, Cognition/ Perception, 2007

- Program Committee, Cognitive Science Society, 2000, 2005
- Organizing Committee, International Joint Conference on Artificial Intelligence. Symposium on spatial processing and spatial language. Stanford University, March 1996.
- Society for Research in Child Development, Language Development Reviewer (1996-98)
- Linguistic Society of America, Psycholinguistics Consultant for Annual Meeting (1994)

- Ad hoc reviewer: British Journal of Developmental Psychology
- Cerebral Cortex
- Child Development
- Cognitive Psychology
- Developmental Psychology
- Journal of Child Language
- Journal of Experimental Psychology
- Journal of Experimental Child Psychology
- Psychological Science
- Proceedings of the National Academy of Sciences

Science
Trends in Cognitive Science

N.S.F. Linguistics, Cognition, LIS Program
N.I.H., Cognition/ Perception Panel
Cambridge University Press
Harvard University Press
M.I.T. Press
Oxford University Press

Advisory Board, Early Literacy in the Blind, American Printing House for the Blind (1989)

Member: American Association for the Advancement of Science (Fellow)
American Psychological Association (Fellow)
American Psychological Society (Fellow)
Cognitive Development Society
Cognitive Science Society (Fellow)
Psychonomics Society
Society for Research in Child Development
Society for Language Development

VII. Teaching and University Service

Courses (undergraduate and graduate, current):

Developmental Cognitive Neuroscience
Language and Thought
Classic papers in Language Acquisition
Freshman Seminar: Nature, nurture, and mind
Cognitive Development
Specialized Seminars
Supervisor, Undergraduate Research
Supervisor, JHU Provost's Undergraduate Research Awards:
2004 (Chinquere Ogbonna), 2007 (Jin Lee), 2011 (Malena Silva), 2013 (Sarah Furlong)

University and Departmental Service (selective):

Columbia University: (1983-1991)
Graduate Admissions
Colloquium Committee
Joint Committee on the Ph.D. in Education (GSAS and School of Education)

University of California, Irvine: (1990-1996)
Colloquium Committee
New Appointments, Cognitive Science (Junior and Senior)
Committee on Graduate Award for Outstanding Dissertation, Cognitive Science
Faculty Advisor, Undergraduates in Social Sciences (1995)

University of Delaware: (1995-2000)
Director, Cognitive Science Program (1997-2000)
Advisory Committee, Cognitive Science (1995- 2000)
Executive Committee, Linguistics (1996-2000)
Executive Committee, Psychology (1998-2000)
Head, Cognitive Area (1996-97)

Graduate Committee, Psychology (1996-97)
Search Committee, Linguistics and Cognitive Science (1995-96)
Search Committee, Cognitive Psychology (1997-98; 1999-2000)
Search Committee, Department of Philosophy (1997-98)
Eugene DuPont Memorial Scholarship Committee (1997; 2000)
George Herbert Ryden Committee Award for the best dissertation
in the Social Sciences (Spring 1996)
Research Committee, College of Arts and Sciences (1998-99)

Johns Hopkins University (2001-present)

Member, Search Committee for Dean of School of Education (2016)
Vice Provost for Faculty (2011-2014)
Chair, Department of Cognitive Science (2006- 2011)
Chair, Committee for the Status of Women in Arts and Sciences (2002)
Member, Committee for the Status of Women in Arts and Sciences (2007)
Acting Chair, Department of Cognitive Science (2003)
Brain Sciences Initiative Committee (Cog Sci Representative, 2001-2003)
Member, University Committee on Status of Women at JHU (2003-2006)