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## I. Education

Ph.D. Psychology, University of Pennsylvania, 1982

Ed.M Educational Psychology, Rutgers University, 1977

B.A. Sociology, University of Pennsylvania, 1970

## II. Positions Held

2006-      Chair, Department of Cognitive Science  
 2001-      Dick and Lydia Todd Professor 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

2009-2012      Advisory Committee, Social, Behavioral and Economic Sciences Directorate, NSF  
 2009-      Advisory Board, NSF Spatial Intelligence and Learning Center  
 2008- 2013      Governing Board, Cognitive Science Society  
 2006-2008      Board of Scientific Advisors, 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

## III. Awards, Honors, Grants, Fellowships

### A. Awards, Honors, Distinguished Speeches

2009      Fellow, American Academy of Arts & Sciences

- 2009 Fellow, John Simon Guggenheim Memorial Foundation
- 2008 Fellow, American Association for the Advancement of Science  
Keynote, Boston University Conference on Language Development
- 2006 Fellow, Cognitive Science Society
- 2005 Master Lecture Series, University of Arizona  
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
- 2001 Fellow, Association for Psychological Science (formerly American Psychological Society)
- 1999 Fellow, American Psychological Association (Divisions 3, 7)
- 1997 European Society of Philosophy and Psychology, Plenary Session, Milan, Italy.
- 1992 Keynote Address, Stanford Child Language Forum. Stanford University.
- 1990 Boyd McCandless Young Scientist Award, American Psychological Association  
(Boyd McCandless Address, A.P.A., San Francisco, 1991.)
- 1987 Plenary Session Address, 17th Annual Symposium of the Jean Piaget Society,  
Philadelphia.

#### B. Grants

- 2005-2010 Spatial representation in Williams syndrome. NINDS RO1 NS 050876
- 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
- 2004-2007 Spatial language in Williams syndrome. March of Dimes Foundation 12-FY04-46
- 2001-2004 Spatial cognition and spatial language in Williams syndrome. National Science Foundation BCS 0117744
- 2001-2004 Spatial language in Williams syndrome. March of Dimes Foundation 12 FY0187
- 2000-2005 The shape bias in children's word learning. NICHD RO1 HD 28675-07
- 1998-2000 James. A. Shannon Director's Award, Spatial language and cognition in Williams Syndrome. NIH (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 (Co-P.I., J. Hoffman) SBR-9808585

- 1999-2001 Spatial cognition: Specialization and interaction. National Science Foundation Supplement for Conference SBR-9808585
- 1998-2000 Spatial language and spatial cognition in Williams Syndrome. March of Dimes Foundation, #12-0194
- 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. with L.B. Smith and S. Jones)
- 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.
- 1992-1995 The shape bias in children's word learning. NICHD- RO1 HD 28675 (Co-P.I. with L.B. Smith and S. Jones)
- 1990-1992 Haptic exploration, object knowledge, and spatial language in blind babies. Social Sciences Research Award, March of Dimes Birth Defects Foundation.
- 1988-1990 Haptic exploration and object perception in blind babies. Social and Behavioral Sciences Research Award, March of Dimes Birth Defects Foundation.
- 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
- 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

- Landau, B. & Gleitman, L.R. (1985) Language and experience: Evidence from the blind child. Cambridge, Mass: Harvard University 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., Sabini, J., Jonides, J., & Newport, E. (2000) Perception, Cognition, and Language: Essays in honor of Henry and Lila Gleitman. Cambridge, Mass: MIT Press.
- B. Papers published
- Landau, B. (2009) The importance of the nativist-empiricist debate: Thinking about primitives without primitive thinking. Child Development Perspectives, in press. 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: NIHMS130902
- 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, in press.
- Landau, B. (2009) Space in semantics and cognition: Three themes. In P. Portner (Ed.), Semantics: An international handbook of natural language meaning. Mouton-de-Gruyter.
- O'Hearn, K., Hoffman, J., & Landau, B. (2009) Multiple object tracking in people with Williams syndrome and in normally developing children. Developmental Science, in press. NIHMSID: NIHMS 30331.
- Palomares, M., Landau, B., & Egeth, H. (2009) Orientation perception in Williams syndrome: Discrimination and integration. Brain and Cognition, 69, 495-503. NIHMSID: NIHMS113626
- Dominici, F., Busch-Vishniac, I., Landau, B., Jarosz, J., Stokes, E., Gillian, R., Lebo, K., Thompson, L., Zeger, S. , Johnson, K., Fried, L.P. (2009) Women in academic leadership: A Johns Hopkins case study of root causes for under-representation. Academe, in press.
- 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. NIHMSID: NIHMS102975
- 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. NIHMS 74877
- 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: PMC Journal-In Process
- 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 NIHMSID# 105517. PMID: PMC Journal-In Process
- Landau, B. (2008) The organization and development of spatial cognition: Insights from Williams

- syndrome. In J. Burack (Ed.), Handbook of Intellectual Disabilities and Development. Oxford: Oxford University Press.
- 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.
- Landau, B., Dessalegn, B., & Goldberg, A.M. (2007) 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). London: Equinox Publishing.
- 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: Sparing 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. PMID: PMC2700022
- Landau, B. and Hoffman, J.E. (2005) Parallels between spatial cognition and spatial language: Evidence from Williams syndrome. Journal of Memory and Language, *53* (2), 163-185.
- Landau, B., Hoffman, J.E., Reiss, J.E., Dilks, D., Lakusta, L., and Chunyo, G. (2005). Specialization, breakdown, and sparing in spatial cognition: Lessons from Williams syndrome. In C. Morris, H. Lenhoff, & P. Wang (Eds.), Williams-Beuren syndrome: Research and Clinical Perspectives. Baltimore, MD: Johns Hopkins Press.
- Landau, B. and Lakusta, L. (2005) Spatial language and spatial representation: Autonomy and interaction. In M. Hickmann & S. Robert (Eds.), Space in languages: linguistic systems and cognitive categories. John Benjamins.
- Lakusta, L. and Landau, B. (2005) Starting at the end: The importance of goals in spatial language. Cognition, *96*(1), 1-33.
- Georgopoulos, M-A., Georgopoulos, A.P, Kurz, N., and Landau, B. (2004) Figure copying in Williams syndrome and normal subjects. Experimental Brain Research, *157*, 137-146.

- Munnich, E. & Landau, B. (2003) The effect of spatial language on spatial representations: Setting some boundaries. In D. Gentner. & S. Goldin-Meadow (Eds.) Language in mind: Advances in the study of language and thought. Cambridge, MA: MIT Press.
- Landau, B. (2003) Perceptual units and their mapping with language: How children can (or can't?) use perception to learn words. In D.G. Hall and S. Waxman (Eds.), Weaving a lexicon. Cambridge, Mass: MIT Press.
- Landau, B. & Zukowski, A. (2003) Objects, motions, and paths: Spatial language of children with Williams Syndrome. Special Issue, Developmental Neuropsychology., C.B. Mervis (Ed.), 23(1-2), 105-138.
- Landau, B. (2003) Axes and direction in spatial language and spatial cognition. In E. vanderZee and J. Slack (Eds.), Representing direction in language and space. Oxford: Oxford University Press.
- Hoffman, J.E., Landau, B. & Pagani, J. (2003) Spatial breakdown in spatial construction: Evidence from eye fixations in children with Williams syndrome. Cognitive Psychology, 46, 260-301.
- Landau, B. (2002) Spatial cognition. In V. Ramachandran (Ed.), Encyclopedia of the human brain, Vol. 4. San Diego: Academic Press, 395-418.
- Landau, B. (2002) Early experience and cognitive organization. In L. Nadel (Ed.), Encyclopedia of Cognitive Science. Nature Publishing Group, England: Macmillan Publishers Ltd.
- Jordan, H., Reiss, J., Hoffman, J.E., and Landau, B. (2002) Intact perception of biological motion in the face of profound spatial deficits: Williams syndrome. Psychological Science, 13(2), 162-167.
- Smith, L.B., Jones, S.S., Landau, B., Gershkoff-Stowe, L., and Samuelson, L. (2002) Object name learning provides on-the-job training for attention. Psychological Science, 13(1), 13-19.
- Munnich, E., Landau, B., & Doshier, B. (2001) Spatial language and spatial representation: A cross-linguistic comparison. Cognition, 81, 171-207.
- Landau, B. & Shipley, E. (2001) Labeling patterns and object naming. Developmental Science, 4(1), 109-118.
- Landau, B. (2001) Perceptual units and their mapping with language. In T. F. Shipley and P. Kellman (Eds.) From fragments to objects: Segmentation and grouping in vision. Advances in Psychology Series, Elsevier Publishing.
- Landau, B. (2000) Concepts, the lexicon, and acquisition: Fodor's new challenge. Mind and Language.
- Landau, B. (2000) Language and space. In B. Landau, J. Sabini, J. Jonides, and E. Newport (Eds.), Perception, cognition, and language: Essays in honor of Henry and Lila Gleitman. Cambridge, Mass: MIT Press.
- Landau, B., Sabini, J., Jonides, J., & Newport, E. (2000) Introduction. In B. Landau, J. Sabini, J. Jonides, and E. Newport (Eds.), Perception, cognition, and language: Essays in honor of Henry and Lila Gleitman. Cambridge, Mass: MIT Press.
- Landau, B. (1999) Reinventing a broken wheel: Commentary on "Perceptual symbol systems". Behavioral and Brain Sciences.

- Landau, B. and Leyton, M. (1999) Perception, object kind, and object naming. Spatial Cognition and Computation, 1(1), 1-29.
- Subrahmanyam, K, Landau, B., & Gelman, R. (1999) Shape, material, and syntax: Interacting forces in the acquisition of count and mass nouns. Language and Cognitive Processes, 14(3), 249-281.
- Kim, M., Landau, B., & Phillips, C. (1999) Cross-linguistic differences in children's syntax for locative verbs. In A. Stringfellow (Ed.), Proceedings of the Boston University Conference on Language Development, Vol. 23. Brookline, Mass: Cascadilla Press.
- Singh, M. & Landau, B. (1998) Parts of visual shape as primitives for categorization. Behavioral and Brain Sciences, 21(1), 36.
- Landau, B., Smith, L., & Jones, S. (1998) Object perception and object naming in early development. Trends in Cognitive Sciences, 2(1), 19-24.
- Landau, B. (1998) Nativist perspectives on the acquisition of knowledge. In W. Bechtel & G. Graham (Eds.), A companion to cognitive science. Oxford, UK: Blackwell.
- Wright, C.E. & Landau, B. (1998) Language and Action: Current challenges to cognitive theory. In J. Hochberg (Ed.), Handbook of perception and cognition. Perception and cognition at century's end: History, philosophy, theory. Orlando, Fla: Academic Press.
- Landau, B., Smith, L., & Jones, S. (1997) Object shape, object function, and object name. Journal of Memory and Language, 36(1): 1-27.
- Landau, B. and Munnich, E. (1997) The representation of space and spatial language: Challenges for cognitive science. In P. Olivier & P. Gapp (Eds.), Representation and processing of spatial expressions. Hillsdale, NJ: Erlbaum.
- Landau, B. (1997) Language and experience in blind children: Retrospective and prospective. In V. Lewis and G.M. Collis (Eds.), Blindness and Psychological Development 0-10 years. Leicester, UK: British Psychological Society.
- Smith, L., Jones, S. & Landau, B. (1996) Naming in young children: A dumb attentional mechanism? Cognition, 60(2), 143-171.
- Landau, B. & Shipley, E. (1996) Object naming and category boundaries. In A. Stringfellow (Ed.), Proceedings of the Boston University Conference on Language Development. Brookline, Mass: Cascadilla Press.
- Landau, B. (1996) Multiple geometric representations of objects in languages and language learners. In P. Bloom, M. Peterson, L. Nadel, & M. Garrett (Eds.), Language and Space. Cambridge, Mass: MIT Press.
- Landau, B. (1994) Object shape, object name, and object kind: Representation and development. In D. L. Medin (Ed.), The psychology of learning and motivation, Vol. 31. San Diego, Ca: Academic Press.
- Landau, B. (1994) Where's what and what's where? The language of objects in space. In L.R. Gleitman & B. Landau (Eds.), Acquisition of the Lexicon. Special Issue, Lingua, 92, 259-296. (Reprinted by MIT Press)
- Jackendoff, R. & Landau, B. (1994) What is coded in parietal representations? Commentary on M. Jeannerod, The representing brain. Behavioral and Brain Sciences.

- Subrahmanyam, K. & Landau, B. (1994) Modulation of object perception by count and mass syntax. In E. Clark (Ed.), Proceedings of the Twenty-sixth Annual Stanford Child Language Research Forum. Stanford, Ca: C.S.L.I.
- Landau, B. (1993) Ontology and perception, object kind and object naming. In E. Clark (Ed.) Proceedings of the Twenty-fifth Annual Stanford Child Language Research Forum. Stanford, Ca.: C.S.L.I.
- Landau, B. & Jackendoff, R. (1993) "What" and "where" in spatial language and spatial cognition. Behavioral and Brain Sciences, 16(2), 217-238, 255-265. (Target article and response to commentaries.)
- Landau, B. (1993) Learning the language of space. Keynote Address, in E. Clark (Ed.) Proceedings of the Twenty-fourth Annual Stanford Child Language Research Forum. Stanford, Ca: C.S.L.I.
- Landau, B., Smith, L. & Jones, S. (1992) Syntactic context and the shape bias in children's and adults' lexical learning. Journal of Memory and Language, 31, 807-825.
- Landau, B., Jones, S. & Smith, L. (1992) Perception, ontology, and naming in young children: Commentary on Soja, Carey, & Spelke. Cognition, 43, 85-91.
- Smith, L., Jones, S. & Landau, B. (1992) Count nouns, adjectives, and perceptual properties in novel word interpretations. Developmental Psychology, 28(2), 273-286.
- Jackendoff, R. & Landau, B. (1991) Spatial language and spatial cognition. In D.J. Napoli and J. Kegl (Eds.), Bridges between Psychology and Linguistics: A Swarthmore Festschrift for Lila Gleitman. Hillsdale: Erlbaum.
- Jones, S., Smith, L. & Landau, B. (1991) Object properties and knowledge in early lexical learning. Child Development, 62, 499-516.
- Landau, B. (1991) Spatial representations of objects in the blind child. Cognition, 38, 145-178.
- Landau, B. & Stecker, D. (1990) Objects and places: Geometric and syntactic representation in early lexical learning. Cognitive Development, 5, 287-312.
- Gerken, L.A., Landau, B. & Remez, R. (1990) Function morphemes in young children's speech perception and production. Developmental Psychology, 26(2), 204-216.
- Kohn A. & Landau, B. (1990) A partial solution to the homonym problem: Linguistic forms as an aid to word learning. Journal of Psycholinguistic Research, 19(2), 71-89.
- Landau, B., Smith, L.B. & Jones, S. (1988) The importance of shape in early lexical learning. Cognitive Development, 3, 299-321.
- Landau, B. & Spelke, E.S. (1988) Geometrical complexity and object search in infancy. Developmental Psychology, 24(4), 512-521.
- Landau, B. (1988) Knowledge and its expression in the blind child. In H. Rosen and D. Keating (Eds.), Constructivist perspectives on atypical development. Hillsdale: Erlbaum.
- Landau, B. (1988) The construction and use of spatial knowledge in blind and sighted children. In J. Stiles-Davis, M. Kritchewsky, and U. Bellugi (Eds.), Spatial Cognition: Brain bases and

development. Hillsdale: Erlbaum.

Gleitman, L., Gleitman, H., Landau, B., and Wanner, E. (1988) Great expectations. In A. Galaburda (Ed.), *From neurons to reading*. Cambridge, MA: MIT Press.

Landau, B. (1987) New failures to learn. Commentary on R. Schank, G. Collins, and L. Hunter, Transcending inductive category formation in learning. *Behavioral and Brain Sciences*, 10(2).

Gleitman, L.R., Gleitman, H., Landau, B. & Wanner, E. (1987) Where learning begins: Initial representations for language learning. In F. Newmeyer (Ed.) *The Cambridge Linguistic Survey*.

Landau, B. (1986) Early map use as an unlearned ability. *Cognition*, 22, 201-223.

Landau, B. & Spelke, E. (1985) Spatial knowledge and its manifestations. In H.M. Wellman (Ed.), *Children's searching: The development of search skill and spatial representation*. Hillsdale: Erlbaum.

Landau, B. & Gleitman, L.R. (1984) The meaning of vision-related terms to a blind child. In *Proceedings of the Annual Meeting of the Cognitive Science Society*. Boulder, Co.

Landau, B. (1984) The construction and control of visual space. *Contemporary Psychology*, 29(10), 789-790.

Landau, B., Spelke, E. & Gleitman, H. (1984) Spatial knowledge in a young blind child. *Cognition*, 16, 225-160.

Landau, B. (1983) Blind children's language is not "meaningless". In A.E. Mills (Ed.), *Language and communication in the blind child*. London: Croom Helm.

Landau, B. (1982) Will the real grandmother please stand up? The psychological reality of dual meaning representations. *Journal of Psycholinguistic Research*, 11(1), 47-62.

Landau, B., Gleitman, H., & Spelke, E. (1981) Spatial knowledge and geometric representation in a child blind from birth. *Science*, 213, 1275-1278.

... (1984) Reprinted in N.R. Cromley, D. Hamilton, C.H. Klaus, R. Scholes, & N. Sommers (Eds.), *Fields of writing: Readings across the disciplines*. New York: St. Martin's Press.

## V. Presentations

### A. Invited Talks

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

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.

Spatial language and spatial cognition.

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

- Rissman, L., Legendre, G., & Landau, B. (2009) Abstract auxiliary BE representation: Evidence from syntactic priming. Poster, Cognitive Science Society, Amsterdam, July.
- 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.
- 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.
- 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.
- 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. Sparing 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

Editorial Board, *Cognition* (1985-present)

Editorial Board, *Spatial Cognition and Computation* (1998- present)

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

Organizing Committee, International Joint Conference on Artificial Intelligence. Symposium on spatial processing and spatial language. Stanford University, March 1996.

Program Committee, Cognitive Science Society, 2000, 2005

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  
American Psychological Association  
American Psychological Society  
Cognitive Development Society  
Cognitive Science Society  
Psychonomics Society  
Society for Research in Child Development  
Society for Language Development

## VII. Teaching and University Service

Undergraduate courses:

Introduction to Cognitive Development

Freshman Seminar, Nature, nurture, and mind  
Introduction to Cognitive Science (Honors Course)  
Seminars: Spatial Cognition (developmental, adult, and comparative perspectives);  
Maturation and Development; Language Learning; Cognitive Development  
Developmental Cognitive Neuroscience  
Supervised Independent Research (Honors and non-Honors)  
Supervisory, JHU Provost's Undergraduate Research Awards:  
2004 (Chinquere Ogbonna), 2007 (Jin Lee)

Graduate courses:

Proseminars: Sensation and Perception (developmental section)  
Cognition (developmental, problem-solving and reasoning, psycholinguistics, spatial cognition)  
Seminars: Spatial Cognition; Language Learning; Cognitive Development  
Developmental Cognitive Neuroscience

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)  
Chair, Department of Cognitive Science (2006- present)  
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)