
Stella F. Lourenco
Department of Psychology, Emory University
36 Eagle Row, Atlanta GA, 30322
Phones: Home 773.354.3210, Office 404.727.7448, Fax 404.727.0372
E-mail: stella.lourenco@emory.edu

CITIZENSHIP: Canada

PROFESSIONAL EXPERIENCE

EMORY UNIVERSITY

Assistant Professor, Department of Psychology (January 2007 - present)

SPATIAL INTELLIGENCE LEARNING CENTER (NSF/SLC)

Adjunct Researcher (October 2008 - present)

EDUCATION

UNIVERSITY OF CHICAGO

Ph.D., Psychology, December 2006

UNIVERSITY OF TORONTO

Honours B.Sc., High Distinction, June 2000

RESEARCH INTERESTS

Spatial perception and cognition in normal and atypical populations
Relations among spatial, number, and temporal processing
Individual differences in spatial and numerical reasoning
Embodied representations

PROFESSIONAL MEMBERSHIP

Association for Psychological Science (APS)	Society for Research in Child Development
Cognitive Development Society (CDS)	(SRCD)
Cognitive Neuroscience Society (CNS)	Spatial Intelligence and Learning Center
International Society on Infant Studies (ISIS)	(SILC)
Brain and Behavioral Science (BBS), Associate	Cognitive Science Society

AWARDS & HONORS

Phi Beta Kappa (Emory University), Faculty Honoree, Fall 2007
University of Chicago, John Dewey Lectureship Prize, 2005/2006
University of Chicago, Psychology Graduate Student Organization (PGSO) Research Funding, 2003 – 2007
University of Chicago Fellowship (Tuition plus Stipend), 2001 – 2005

Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship (PGS A), 2001 – 2003, Declined
St. Michael's College Silver Medal Award, University of Toronto, 2000
Dean's List, University of Toronto, 2000, 1998, 1997
Canadian Psychological Association (CPA) Academic Excellence Award, 2000
NSERC Undergraduate Student Research Scholarship, May 1999 – September 1999
St. Michael's College Scholarship, University of Toronto, 1997
Golden Key National Honor Society Scholar Award, University of Toronto, 1997

FUNDING

CURRENT

Emory University, IBIS

“Neural Correlates of Magnitude Representation” (May 2008 - present)

Role: Co-PI (with Phil Wolff) (Funds: \$30,500)

Emory University, Undergraduate Research Matching Grant

“Weighting Geometric and Non-geometric Cues in Young Children” (September 2008 – August 2009)

Role: PI (Funds: \$2,500)

NIH/NICHHD, RO3

“General Magnitude Representation in Infancy: Testing the Associations among Space, Number, and Time” (June 2008 – May 2010)

Role: PI (Funds: \$155,000)

NSF, Science of Learning Center (NIH Supplement)

“Plasticity at the Interface of Spatial and Linguistic Processing” (March 2007 – present)

Role: Consultant

COMPLETED

Emory University, University Research Committee (URC)

“Location Representation in Young Children: On the Nature of Composite Cues” (March 2008 – February 2009)

Role: PI (Funds: \$26,740)

PUBLICATIONS AND MANUSCRIPTS

PUBLISHED PAPERS

* Asterisk indicates student author

Vasilyeva, M., & **Lourenco, S. F.** (in press). Spatial development. In R. Lerner (Ed.) Handbook of Lifespan Human Development, W. F. Overton (Ed.), Volume 1: Methods, Biology, Neuroscience, and Cognitive Development.

Lourenco, S. F., & Longo, M. R. (in press). The plasticity of near space: Evidence for contraction. *Cognition*.

Lourenco, S. F., *Addy, D., & Huttenlocher, J. (in press). Location representation in enclosed spaces: What types of information afford young children an advantage? *Journal of Experimental Child Psychology*.

Huttenlocher, J., **Lourenco, S. F.,** & Vasilyeva, M. (in press). Perspectives on spatial development. In L. B. Smith, M. Gasser, & K. S. Mix (Eds.), *The Spatial Foundations of Cognition and Language*. New York: Oxford University Press.

Lourenco, S. F., & Longo, M. R. (2009). Multiple spatial representations of number: Evidence for co-existing compressive and linear scales. *Experimental Brain Research*, *193*, 151 – 156.

*Holmes, K. J., & **Lourenco, S. F.** (2009). Spatial organization of magnitude in the representation of number and emotion. *Proceedings of the 31st Annual Conference of Cognitive Science Society*. Amsterdam, Netherlands.

Lourenco, S. F., & Levine, S. C. (2008). Early numerical representations and the natural numbers: Is there really a complete disconnect? *Brain & Behavioral Sciences*, *31*, 660.

Lourenco, S. F., & Huttenlocher, J. (2008). The representation of geometric cues in infancy. *Infancy*, *13*, 103 – 127.

Huttenlocher, J., & **Lourenco, S. F.** (2007). Coding location in enclosed spaces: Is geometry the principle? *Developmental Science*, *10*, 741 – 746.

Huttenlocher, J., Hedges, L., **Lourenco, S. F.,** Crawford, L. E., & Corrigan, B. (2007). Estimating stimuli in contrasting categories: Truncation due to boundaries. *Journal of Experimental Psychology: General*, *136*, 502 – 519.

Lourenco, S. F., & Huttenlocher, J. (2007). Using geometry to specify location: Implications for spatial coding in children and nonhuman animals. *Psychological Research*, *71*, 252 – 264.

Huttenlocher, J. & **Lourenco, S. F.** (2007). Using spatial categories to reason about location. In J. Plumert & J. Spencer (Eds.), *The Emerging Spatial Mind* (pp. 3 – 24). New York: Oxford University Press.

Longo, M. R., & **Lourenco, S. F.** (2007). Space perception and body morphology: Extent of near space scales with arm length. *Experimental Brain Research*, *177*, 285 – 290.

Longo, M. R., & **Lourenco, S. F.** (2007). Spatial attention and the mental number line: Evidence for characteristic biases and compression. *Neuropsychologia*, *45*, 1400 – 1407.

Lourenco, S. F., & Huttenlocher, J. (2006). How do young children determine location? Evidence from disorientation tasks. *Cognition*, *100*, 511 – 529.

Reprinted as “Toddlers in Space” in *Navigation News*, March-April, 14 – 17.

Longo, M. R., & **Lourengo, S. F.** (2006). On the nature of near space: Effects of tool use and the transition to far space. *Neuropsychologia*, 44, 977 – 981.

Levine, S. C., Vasilyeva, M., **Lourengo, S. F.**, Newcombe, N., & Huttenlocher, J. (2005). Socioeconomic status modifies the sex difference in spatial skill. *Psychological Science*, 16, 841 – 845.

Lourengo, S. F., Huttenlocher, J., & Vasilyeva, M. (2005). Toddlers’ representations of space: The role of viewer perspective. *Psychological Science*, 16, 255 – 259.

Zelazo, P. D., & **Lourengo, S. F.** (2003). Imitation and the dialectic of representation. *Developmental Review*, 23, 55 – 78.

SUBMITTED MANUSCRIPTS

* Asterisk indicates student author

Lourengo, S. F., Huttenlocher, J., & *Fabian, L. (under revision). *Early sex differences in weighting geometric cues.*

Lourengo, S. F., & Longo, M. R. (under revision). *General magnitude representation in human infants.*

Jacques, S., Zelazo, P. D., & **Lourengo, S. F.** (under revision). *The roles of labelling and abstraction in the development of cognitive flexibility.*

Longo, M. R., & **Lourengo, S. F.** (under review). *Bisecting the mental number line in near and far Space.*

MANUSCRIPTS IN PREPARATION

Levine, S. C., **Lourengo, S. F.**, & Ehrlich, S. B. *Sex differences in spatial and mathematical cognition.*

Lourengo, S. F., & *Addy, D. *Numerical abstraction in preschoolers: ‘Spatial congruity’ effects.*

Lourengo, S. F., *Hussaini, S., & Addy, D. *Embodied representations of number in children.*

Lourengo, S. F., & Levine, S. C. *Hierarchical Representations of Location in Children with Pre- and Perinatal Brain Injury.*

Lourengo, S. F., & *Addy, D. *‘Spatial bootstrapping’ of numerical representations in infancy.*

*Holmes, K., & **Lourengo, S. F.** *Mapping the ‘mental magnitude line’: Spatial organization in the representation of abstract domains.*

Lourenco, S. F., & *Holmes, K. *Implicit magnitude information causes automatic biases in spatial attention.*

***Bonny, J. & Lourenco, S. F.** *The left-to-right organization of magnitude: Comparing number, size, and duration stimuli.*

Lourenco, S. F., *Romero, C., & *Addy, D. *Mental Rotation in Young Children: Differential Effects of Object Characteristics in Boys and Girls.*

Lourenco, S. F., & *Jacobs, E. *Left hemisphere advantage for geometric processing in adult humans.*

Lourenco, S. F. *How do children map location information? Some underlying principles.*

INVITED TALKS

University of Chicago, Department of Psychology (June 2009): *The Representation of General Magnitude: Developmental Origins and the Extent of Generalization.*

Northwestern University, Spatial Training Meeting (May 2009): *Numerical abstraction in preschoolers. 'Spatial congruity' effects.*

National Sciences Foundation, Science of Learning Center (SLC) Meeting (February 2009): *Spatial reasoning following early and late brain injury.*

Michigan Tech University (May 2007): *Early sex differences in weighting geometric cues.*

Emory University, Department of Psychology: *Using geometry to determine location: Implications for spatial coding in young children.*

Indiana University, Department of Psychology: *Using geometry to determine location: Implications for spatial coding in young children.*

University of Minnesota, Institute of Child Development: *Using geometry to determine location: Implications for spatial coding.*

University of Delaware, Department of Psychology: *Using geometry to determine location: Implications for spatial coding.*

CONFERENCE PRESENTATIONS: PAPERS AND POSTERS

Lourenco, S. F., & Levine, S. C. (2009, April). Location Representation following Pre- and Perinatal Brain Injury. Poster presented at the NSF/SLC (Science of Learning Center) Meeting, Philadelphia, PA.

*Bonny, J.W. & **Loourenco, S.F.** (2009, October). *Magnitude acuity and the relation to mathematical skill*. Poster accepted for presentation to the Biennial Meeting of the Cognitive Development Society, San Antonio, TX.

*Holmes, K. J., & **Loourenco, S. F.** (2009, July). *Happier faces shift attention rightward: The cognitive consequences of magnitude processing*. Poster accepted for presentation at the Annual Meeting of the Cognitive Science Society, Amsterdam, Netherlands.

*Holmes, K. J., & **Loourenco, S. F.** (2009, July). *Spatial organization of magnitude in the representation of number and emotion*. Paper accepted for presentation at the Annual Meeting of the Cognitive Science Society, Amsterdam, Netherlands.

*Bonny, J.W. & **Loourenco, S.F.** (2009, July). *The spatial organization of magnitude information*. Poster accepted for presentation at the Annual Meeting of the Cognitive Science Society. Amsterdam, Netherlands.

*Holmes, K. J., & **Loourenco, S. F.** (2009, March). *Spatial organization of magnitude in the representation of abstract domains*. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, CA.

Loourenco, S. F., & Levine, S. C. (2009, March). *Location Representation Following Early Unilateral Brain injury: Evidence of Distinct Deficits and Degrees of Plasticity*. Paper presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Denver, CO.

*Addy, D., & **Loourenco, S. F.** (2009, March). *The Influence of Spatial Variables on Numerical Reasoning in 3-year olds: Evidence from Ordinal and Equivalence Tasks*. Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Denver, CO.

Loourenco, S. F., & Longo, M. (2009, March). *Early representations of general magnitude*. Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Denver, CO.

Loourenco, S. F., & *Addy, D. (2008, March). *Location representation in young children: Is there an advantage for composite cues?* Paper presented at the Biennial Meeting of the International Society of Infant Studies (ISIS), Vancouver, BC, Canada.

Loourenco, S. F., *Fabian, L., & Huttenlocher, J. (2007, March). *Sexually dimorphic weighting of geometric cues in young children*. In S. F. Lourenco (Chair), Spatial representation in young children: How is geometric and non-geometric location information processed? Paper presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Boston, MA.

Huttenlocher, J., & **Loourenco, S. F.** (2007, March). *Coding location in enclosed spaces: Is geometry the principle?* In S. F. Lourenco (Chair), Spatial representation in young children: How is geometric and non-geometric location information processed? Paper presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Boston, MA.

Huttenlocher, J., & **Lourenco, S. F.** (2006, November). *Coding location in enclosed spaces: Is geometry the principle?* Paper presented at the Annual Meeting of the Psychonomic Society, Houston, TX.

Longo, M. R., & **Lourenco, S. F.** (2006, April). *Space perception and body morphology: Extent of near space scales with arm length.* Paper presented at PsychFest: The Annual University of Chicago/Northwestern University Psychology Graduate Student Symposium, Chicago, IL.

Longo, M., & **Lourenco, S. F.** (2006, April). *Relation of space perception to body morphology: Extent of near space scales with arm length.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, CA.

Lourenco, S. F., Huttenlocher, J., & *Fabian, L. (2005, October). *Coding geometric information in infancy.* Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), San Diego, CA.

Longo, M. R., & **Lourenco, S. F.** (2005, April). *Shared representation for numerical and spatial cognition: Pseudoneglect for the mental number line.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), New York, NY.

Levine, S. C., Vasilyeva, M., **Lourenco, S. F.**, Newcombe, N., & Huttenlocher, J. (2005, April). *The sex difference in spatial skill: Sensitivity to socioeconomic status.* Paper presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Atlanta, GA.

Lourenco, S. F., & Huttenlocher, J. (2005, April). *Viewer- vs. space-movement tasks: Toddlers' performance varies by task.* Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Atlanta, GA.

Longo, M. R., & **Lourenco, S. F.** (2004, April). *Extension of peripersonal space through tool use.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, CA.

Lourenco, S. F., Huttenlocher, J., & Vasilyeva, M. (2003, October). *Toddlers' representations of space: The role of viewer perspective.* Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Park City, UT.

Lourenco, S. F., Liebermann, D., & Zelazo, P. D. (2003, October). *Acquiring a dual representation of pictures: Do preschoolers differentiate between content and form?* Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Park City, UT.

Wagner, S., & **Lourenco, S. F.** (2003, April). *Hands on learning: When do children pay attention to teachers' hands?* Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Tampa, FL.

Lourenco, S. F., & Huttenlocher, J. (2001, October). *Spatial cognitive development: A way to the child's mind?* Paper presented at the Biennial Meeting of the Cognitive Developmental Society (CDS), Virginia Beach, VA.

Jacques, S., & **Lourenco, S. F.** (2001, October). *The role of contrastive information in the effectiveness of labels inducing flexible thinking.* Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Virginia Beach, VA.

Lourenco, S. F., & Zelazo, P. D. (2001, April). *Preschoolers' sensitivity to the content and formal properties of pictures: Acquiring a dual representation.* Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Minneapolis, MN.

Lourenco, S. F., Zimmerman, S., & Lojkasek, M. (2000, June). *Shame and guilt during reunion episodes of the Strange Situation.* Paper presented at the 26th Annual Harvey Stancer Research Day, Toronto, ON, Canada.

Lourenco, S. F. (2000, April). *Preschoolers' sensitivity to the content and formal properties of pictures: Acquiring a dual representation.* Paper presented at 30th Psychology Undergraduate Thesis Conference, Guelph, ON, Canada.

Jacques, S., **Lourenco, S. F., & Zelazo, P. D.** (1999, October). *Language, abstraction, and cognitive flexibility.* Poster presented at the First Meeting of the Cognitive Development Society (CDS), Chapel Hill, NC. [See on-line abstract from www.cogdevsoc.org/postrabs.html.]

Marcovitch, S., Zelazo, P. D., McDonald, R. J., & **Lourenco, S. F.** (1999, October). *The effect of number of A trials on rats' performance on the Morris water maze.* Poster presented at the First Meeting of the Cognitive Development Society (CDS), Chapel Hill, NC. [See on-line abstract from www.cogdevsoc.org/postrabs.html.]

Lourenco, S. F., Lojkasek, M., Zimmerman, S., Attoe, L., & Webster, K. (1999, June). *Labelling of infant feeling states and use of shame/guilt by mothers during reunion episodes of the Strange Situation.* Poster presented at the 25th Annual Harvey Stancer Research Day, Toronto, ON, Canada.

Zimmerman, S., Lojkasek, M., Webster, K., **Lourenco, S. F., & Attoe, L.** (1999, June). *Content and style of maternal language during reunion episodes of the Strange Situation.* Poster presented at the 25th Annual Harvey Stancer Research Day, Toronto, ON, Canada.

TEACHING EXPERIENCE

GRADUATE COURSES

Core Seminar in Perceptual Cognition, Spring 2007 (with Lynne Nygaard), Fall 2008 (with Larry Barsalou)

Seminar on Space, Time, and Causation, Fall 2007 – Spring 2008 (with Phil Wolff)

Seminar on Language and Space, Fall 2008 – Spring 2009 (with Laura Namy)

UNDERGRADUATE COURSES

Cognitive Development, Fall 2007, Spring 2009

Seminar on Spatial Development, Spring 2008, Fall 2008

GRADUAT STUDENTS SUPERVISED

Justin Bonny (Fall 2008 – on), **Kelvin Holmes** (Primary Advisor: Phil Wolff), **Umay Suanda** (Primary Advisor: Laura Namy), **Jackie Leventon** (Primary Advisor: Patricia Bauer)

THESES SUPERVISED

Emily Jacobs (Honors Student, 2007/2008), **Carissa Romero** (Honors Student, 2007/2008), **Lydia Fabian** (University of Chicago, Honors Student, 2005/2006)

SERVICE

Psychology Department, Emory University

Faculty Secretary: 2007, 2008

Search Committee: 2008 - 2009

Human Subjects Committee (Chair): 2008 - 2009

College of Arts and Sciences, Emory University

Faculty Representative, Emory College Honor Council: 2007 – 2008

Committee on Academic Standards: 2008

Other

Professional Training Meeting (Developmental Psychology), University of Chicago,
Invited Speaker (2008)

Reviewer

Journals: *Animal Cognition, Child Development, Cognition, Cognitive Development, Developmental Neuropsychology, Developmental Psychology, Developmental Science, The European Journal of Developmental Psychology, Journal of Cognition and Development, Journal of Experimental Biology, Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, & Cognition; Psychological Science, Psychological Research, Psychonomic Bulletin & Review*

Conferences: *American Psychological Association (2008, 2009)*