

LAURA A. THOMPSON

Department of Psychology
College of Arts and Sciences
New Mexico State University
Box 30001/Dept. 3452
Las Cruces, NM 88003-8001
(575) 646-4024 (work)

CURRICULUM VITAE

Current Research Interests

- Stress, self-regulation, and attention and working memory processes in adults
- Neuroendocrine functioning and its impact on infant learning and memory
- Stress and its implications for adult face-to-face language understanding
- Child and adult attention during multi-modal language comprehension

Present Positions

- 2015 **Core Faculty, Clinical Psychology Program, Fielding Graduate University.**
Current responsibilities include teaching one course a semester and serving on graduate student committees.
- 2012 **Distinguished Achievement Professor of Psychology, New Mexico State University.** Current responsibilities include: director of NIH-funded Mother-Infant Research Laboratory, director of the NSF-funded Face-to-Face Interaction Laboratory, teaching 1 graduate-level course per year, teaching 3 undergraduate courses per year, advisor to 1 Ph.D. student and 2 Master's students, Chair of Psychology Department P & T committee, member of Psychology undergraduate committee.

Education and Post-Doctoral Training

- 1987-1989 Postdoctoral Fellow, Max Planck Institute for Human Development and Education, Berlin, Germany
- 1987 Ph.D. University of California, Santa Cruz
Experimental Psychology
- 1983 M.A. University of Cincinnati
Psychology
- 1979 B.A. Bemidji State University (MN)
Psychology Graduated Summa cum laude

Professional Experience

- 2007 Member of National Institutes of Health, Cognition and Perception review panel

- 2002-2012 Professor of Psychology, New Mexico State University
- 2001 Member of review panel for the National Institute on Aging (NIA)
- 1999-Present Member of National Institutes of Health review panels for the MBRS-SCORE program
- 1997 Minority dissertation proposal reviewer for the NIA
- 1996-2001 Member of 3 National Science Foundation review panels to evaluate Major Research Instrumentation Grants for research in Computer and Information Science and Engineering (CISE/EIA)
- 1995-2002 Associate Professor Psychology, New Mexico State University
- 1989-1995 Assistant Professor of Psychology, New Mexico State University
- 1983-1987 Graduate Research Assistant, University of California, Santa Cruz, Program in Experimental Psychology
- 1982-1983 Research Internship in Human Factors, IBM, San Jose, CA
- 1979-1980 Research Assistant in Human Factors, Honeywell, Minneapolis, MN

Grants

- 2008-2013 Principal Investigator, *Infant Cortisol Reactivity and its Relationship to Learning and Memory*, Eunice Kennedy Shriver National Institute of Child Health & Human Development. (\$1,170,000 total funding)
- 2005-2008 Principal Investigator, *Cortisol, Synchrony, and Infant Cognitive Development*, National Institutes of Health. (\$1,090,000 total funding)
- 2004-2008 Principal Investigator, *Acquisition of Equipment for a Face-to-Face Interaction Laboratory for Studying Cognitive, Neurocognitive, Social Cognitive, and Emotional Aspects of Human Communication*, National Science Foundation. (Direct costs: NSF: \$253,491; NMSU: \$108,437)
- 1999-2003 Principal Investigator, *Maternal/Infant Synchrony in Cortisol and Behavior: Relations with Cognitive Development*, National Institutes of Health. (\$109,500 total funding)
- 1994-1995 Co-PI, *Developing Computer Tools for the Professional Translator*, National Security Agency. (\$1,170,000 total funding)
- 1990-1998 Principal Investigator, New Mexico State University mini-grants (4 small grants)

Awards

- 2013 College of Arts & Sciences Travel Award
- 2012 Distinguished Achievement Professorship (awarded the title)

- 2011 Margaret Manasse Endowed Fund Award—(One of five NMSU faculty members honored that year for achievements in research, teaching, and service)
- 2011 Dennis W. Darnall Faculty Achievement Award—(One NMSU faculty member honored every year for achievements in research, teaching, and service)
- 2007 College of Arts and Sciences Outstanding Faculty Achievement Award
- 1999 College of Arts and Sciences Summer Research Award to Faculty
- 1990 National Institute on Aging Award to attend the Interdisciplinary Conference on Aging in Washington, D. C.

PUBLICATIONS

Journal Articles

- Thompson, L. A., Morgan, G., & Jurado, K. A. (2015). A longitudinal study of infant cortisol response during learning events. *Monographs of the Society for Research in Child Development*, 80 (4), xx-xxx.
- Killough, C. M., Thompson, L. A., & Morgan, G. (2015). Self-regulation and working memory in musical performers. *Psychology of Music*, 43, 86-102. DOI:10.1177/0305735613498917 2015.
- Stauble, M. R., Thompson, L. A., & Morgan, G. (2013). Increases in cortisol are positively associated with gains in encoding and maintenance working memory performance in young males. *Stress: The International Journal on the Biology of Stress*, 16, 402-410. PMID: PMC3846387
- Morgan, G., Killough, C. M., and Thompson, L. A. (2013). Does visual information influence infants' movement to music? *Psychology of Music*, 41, 249-264. DOI: 10.1177/0305735611425897
- Thompson, L. A., Malloy, D. M., Cone, J. M., & Hendrickson, D. L. (2010). A new methodology for investigating visuospatial attention across different face regions in live face-to-face communication settings, *Interaction Studies*, 11:2, 336-348.
- Thompson, L. A., Malloy, D. M., & Le Blanc, K. L. (2009). Lateralization of visuospatial attention across face regions varies with emotional prosody, *Brain and Cognition*, 69, 108-115.
- Thompson, L. A., & Trevathan, W. R. (2009). Cortisol reactivity, maternal sensitivity, and infant preference for mother's familiar face and rhyme in 6-month-old infants. *Journal of Reproductive and Infant Psychology*, 27(2), 143-167.
- Thompson, L. A., & Trevathan, W. R. (2008). Cortisol reactivity, maternal sensitivity, and learning in 3-month-old infants. *Infant Behavior and Development*, 31, 92-106.
- Thompson, L. A., Garcia, E., & Malloy, D. M. (2007). Reliance on visible speech cues during multi-modal language processing: Individual and age differences. *Experimental Aging Research*, 33, 373-397.
- Bond, G. D., Thompson, L. A., & Malloy, D. M. (2005). Lifespan changes in prison inmates' social networks. *International Journal of Aging and Human Development*, 61, 161-178.

- Bond, G. D., Thompson, L. A., & Malloy, D. M. (2005). Vulnerability of older adults to deception in prison and non-prison contexts. *Psychology and Aging, 20*, 1-11.
- Bond, G. D., Malloy, D. M., Arias, E., Nunn, S., & Thompson, L. A. (2005). Lie-biased decision making in a prison context. *Communication Reports, 18*, 9-19.
- Bond, G. D., Malloy, D. M., Thompson, L. A., Arias, E., & Nunn, S. (2004). Post-probe decision making in a prison context. *Communication Monographs, 71*, 269-285.
- Thompson, L. A., Malmberg, J., Goodell, N., & Boring, R. (2004). The distribution of attention across a talker's face. *Discourse Processes, 38*, 145-168.
- Thompson, L. A. & Malloy, D. M. (2004). Attention resources and visible speech encoding in older and younger adults. *Experimental Aging Research, 30*, 1-12.
- Trafimow, D., Brown, J., Grace, K., Thompson, L. A., & Sheeran, P. (2002). The relative influence of attitudes and subjective norms from childhood to adolescence: Between-participants and within-participants analyses. *American Journal of Psychology, 115*, 395-414.
- Brown, J., Thompson, L. A., & Trafimow, D. (2002). The father-daughter relationship rating scale. *Psychological Reports, 90*, 212-214.
- Thompson, L. A., Madrid, V., Westbrook, S., & Johnston, V. (2001). Infants attend to second order relational properties of faces. *Psychonomic Bulletin & Review, 8*, 769-777.
- Thompson, L. A., Williams, K., L'Esperance, P., & Cornelius, J. (2001). Context-dependent memory under stressful conditions: The case of skydiving. *Human Factors, 43*, 618-626.
- Thompson, L. A., Aidinejad, M., & Ponte, J. (2001). Aging and the effects of facial and prosodic cues on emotional intensity ratings and memory reconstructions. *Journal of Nonverbal Behavior, 25*, 101-126.
- Thompson, L. A., Gómez, R. L., & Schvaneveldt, R. W. (2000). The salience of temporal cues in the developing structure of event knowledge. *American Journal of Psychology, 113*, 613-641.
- Thompson, L. A., & Guzman, F. (1999). Some limits on encoding visible speech and gestures using a dichotic shadowing task. *Journals of Gerontology: Psychological Sciences, 54(B)*, 347-349.
- Thompson, L. A., & Markson, L. (1998). Developmental changes in the effect of dimensional salience on the discriminability of object relations. *Journal of Experimental Child Psychology, 69*, 1-25.
- Thompson, L. A., & Malmberg, J. (1998). Discriminability learning for the 1990s? [Review of the book *Levels of Cognitive Development*]. *American Journal of Psychology, 111*, 627-631.
- Thompson, L. A., Driscoll, D., & Markson, L. (1998). Memory for visual-spoken language in children and adults. *Journal of Nonverbal Behavior, 22*, 167-187.
- Thompson, L. A., & Lee, K. (1996). Information integration in cross-modal pattern recognition: An argument for acquired modularity. *Acta Psychologica, 92*, 79-104.

- Thompson, L. A. (1995). Encoding and memory for visible speech and gestures: A comparison between young and older adults. *Psychology and Aging, 10*, 215-228.
- Thompson, L. A., & Ogden, W. C. (1995). Visible speech improves human speech understanding: Implications for speech processing systems. *Artificial Intelligence Review Journal, 9*, 347-358.
- Thompson, L. A. (1994). Dimensional classification strategies predominate in perceptual classification. *Child Development, 65*, 1627-1645.
- Thompson, L. A., & Massaro, D. W. (1994). Children's integration of speech and pointing gestures in comprehension. *Journal of Experimental Child Psychology, 57*, 327-354.
- Thompson, L. A., & Kliegl, R. (1991). Adult age effects of plausibility on memory: The role of time constraints during encoding. *Journal of Experimental Psychology: Learning, Memory and Cognition, 17*, 542-555.
- Thompson, L. A., & Massaro, D. W. (1989). Before you see it, you see its parts: Evidence for feature encoding and integration in preschool children and adults. *Cognitive Psychology, 21*, 334-362.
- Massaro, D. W., Cohen, M. C., & Thompson, L. A. (1988). Visible language in speech perception: Lipreading and reading. *Visible Language, 22*, 8-31.
- Thompson, L. A. (1987). Central resource involvement during the visual search for features and conjunctions of features. *Acta Psychologica, 66*, 189-200.
- Thompson, L. A., & Massaro, D. W. (1986). Evaluation and integration of speech and pointing gestures during referential understanding. *Journal of Experimental Child Psychology, 42*, 144-168.
- Massaro, D. W., Thompson, L. A., Barron, B., & Laren, E. (1986). Developmental changes in visual and auditory contributions to speech perception. *Journal of Experimental Child Psychology, 41*, 91-113.

Chapters, Published Reviews, and Proceedings

- Thompson, L. A., Morgan, G., Stauble, M., & Unger, C. (in press). Breastfeeding and its relation to cortisol response, temperament, arousal and better learning and memory in infancy. To appear in J. Worobey (Ed.), *Infant Feeding: Parental Perceptions, Behaviors and Health Effects*. Nova Publishers.
- Thompson, L. A., & Strosser, G. L. (2012). Perceptual development. In V. S. Ramachandran (Ed.), *Encyclopedia of human behavior, Vol. 3, 2nd edition*, pp. 49-56. Academic Press.
- Thompson, L. A. (2000). Paying homage to a coherence-maker in a fractionated discipline. [Review of R. R. Hoffman, M. F. Sherrick, and J. S. Warm (Eds.), *Viewing psychology as a whole: The integrative science of William N. Dember*]. *American Journal of Psychology, 113*, 303-332.
- Thompson, L. A., & Ogden, W. C. (1995). Visible speech improves human speech understanding: Implications for speech processing systems. In P. McKeivitt (Ed.) *Integration of natural language and vision processing (Vol. III): Theory and grounding representations*. Kluwer: The Netherlands.

Thompson, L. A. (1998). Cognitive Constraints on the Use of Visible Speech and Gestures. *Proceedings of the Fifteenth National Conference on Artificial Intelligence*. Representations for Multi-Modal Human-Computer Interaction Workshop. International Joint Conferences on Artificial Intelligence.

Thompson, L. A., & Massaro, D. W. (1994). Perceptual development. In V. S. Ramachandran (Ed.), *Encyclopedia of human behavior, Vol. 3, 1st edition*. San Diego CA: Academic Press.

Thompson, L. A. (1990). Review of L. L. Light and D. M. Burke (Eds.), *Language, memory, and aging*. *American Journal of Psychology*, 103, 569-574.

Papers in Various Stages of Submission and Revision

Morgan, G., Thompson, L. A., & O'Hearn, A. Mother-Infant Interactional Patterns Predict Infant Learning. Submitted, *Infancy*.

Thompson, L. A., Morgan, G., & Unger, C. Maternal Cortisol Response During Pregnancy Predicts Cortisol Response and Learning and Memory Performance in Young Infants, in preparation.

PROFESSIONAL PRESENTATIONS (selected from over 50)

Thompson, L. A. Stress Reactivity, Cognition, and Empowering People to Think Better. Colloquium given at the University of California, Merced, Psychology Department, January 16, 2014.

Thompson, L. A., Robbins, A., & Covey, L. Emotional and Physiological Arousal Exhibit Differing Effects on Infant Cortisol Reactivity During Learning Events. Poster presented at the International Conference on Infant Studies in Mpls., MN, June 7 - 9, 2012.

Morgan, G., Thompson, L. A., & O'Hearn, A. Infant Learning is Associated With Mother-Infant Interactional Patterns. Poster presented at the International Conference on Infant Studies in Mpls., MN, June 7 - 9, 2012.

Morgan, G., Thompson, L. A., & Stauble, M. R. Do Breastfed Infants Learn Better? Influences of Infant Temperament and Cortisol Reactivity. Poster presented at the International Conference on Infant Studies in Mpls., MN, June 7 - 9, 2012.

Thompson, L. A., & DeVargas, E. Breastfeeding, cortisol, fear and approach: Pieces of a developmental puzzle. Poster presented at the International Society for Psychoneuroendocrinology Conference in San Francisco, CA, July 23-26, 2009.

Thompson, L. A., & Jurado, K. A. Infants that regulate stress learn: Cortisol tuning in the first year of life. Poster presented at the International Society for Psychoneuroendocrinology Conference in San Francisco, CA, July 23-26, 2009.

Thompson, L. A. A Longitudinal Study of Behavioral and Psychophysiological Synchrony Between Mothers and Infants During Learning Events. Poster presented at the Biennial Meeting for the Society for Research in Child Development, April, 2009.

Hendrickson, D.L., & Thompson, L. A. Improvements in Facial Attention Distribution in Trait Anxiety Participants. Poster presented at the American Psychological Society Meeting, San Francisco, May, 2009.

- Thompson, L. A. Synchrony as a Foundation for Optimal Social/Emotional/Cognitive Development. Colloquium given at the University of Arizona, Psychology Department, March 6, 2009.
- Thompson, L. A. How Emotional Climate Change Can Affect Cognition. Colloquium given at the University of Louisville, Psychological and Brain Sciences Department, November, 2007.
- Thompson, L. A. Cortisol, Behavioral synchrony, and Infant Learning: A Cross-Sectional Study with 3- and 6-Month-Old Infants and Their First-Time Mothers. Paper presented at a Symposium entitled: The Role of Early Mother-Child Interaction in Cognitive Development of Infants in their First Year of Life, European Conference on Developmental Psychology in Jena, Germany, August, 2007.
- Thompson, L. A. Creating a Blueprint for Success: Discovery, Learning & Engagement. Talk given at Purdue University, Child Development and Family Studies Department, May, 2007.
- Thompson, L.A. Cognition, Context, and Development: Stories From Across the (Other) Border. Colloquium given at the University of Texas at El Paso, March, 2007.
- Thompson, L.A. How Adrenocortical Functioning and Maternal Sensitivity Impact Infants' Learning and Attention. Colloquium given at the University of Alabama, February, 2007.
- Thompson, L. A. & Trevathan, W. R. Cortisol, Mother-Infant Synchrony, and Learning in 6-Month-Old Infants. Poster presented at the International Conference on Infant Studies biennial conference, June, 2006, Kyoto, Japan.
- Thompson, L. A., Clayton, K., Silva, K., Foltz, P. W., & Malmberg, J. Maternal infant-directed language coherence and its relation to infant grammar acquisition. Poster presented at the International Conference on Infant Studies, May, 2004, Chicago, IL.
- Thompson, L. A., Trevathan, W. R., Villarreal, R., Peña, X., & Arias, E. Maternal/infant synchrony in cortisol and behavior: Relations with learning in 6-month-old infants. Poster presented at the International Conference on Infant Studies, May, 2004, Chicago, IL.
- Thompson, L. A., Trevathan, W., Diaz, L., Licon, D., Fields, L., Villarreal, R., & Silva, K. Maternal/infant synchrony in cortisol and behavior: Relations with learning in 6-month-old infants. Paper presented at Society for Research in Child Development, April, 2003, Tampa, FL.
- Thompson, L. A., Trevathan, W., Diaz, L., Licon, D., Gonzales, H., & Fields, L. Maternal/infant synchrony in cortisol and behavior: Relations with learning in 3-month-old infants. Paper presented at the International Conference on Infant Studies, April, 2002, Toronto, Canada.
- Thompson, L. A. Cognitive constraints on the use of visible speech and gestures. Paper presented at the Representations for Multi-Modal Human-Computer Interaction Workshop. American Association for Artificial Intelligence (AAAI), July, 1998, Madison, WI.
- Thompson, L. A. The myth of a holistic-to-analytic shift in perceptual development. Invited presentation given to the Developmental Psychology Research group, University of Oregon, March, 1996.
- Thompson, L. A. I see what you're saying: Visual-spoken language understanding and lifespan development. Invited colloquium given to the Cognitive Science and Decision Making Institute at the University of Oregon, March, 1996.

UNIVERSITY TEACHING (18 Different Courses)

Courses in Cognitive Psychology

- Cognitive Psychology
- Memory: Theoretical and Practical Aspects
- Cognitive Psychology (Graduate Core Course)
- *Distance Education* Cognitive Psychology (Graduate Core Course)
- Seminar on Expertise and Skill Acquisition (Graduate Seminar)

Courses in Biopsychology

- Psychology and the Brain
- Behavioral Neuroscience (Graduate Core Course)

Courses in Developmental Psychology

- Developmental Psychology: Conception through Childhood
- Developmental Psychology: Adolescence through Old Age
- Perceptual and Cognitive Development (Graduate and Undergraduate)
- Research Methods in Developmental Psychology
- Thinking Across the Lifespan (Graduate Seminar)
- Developmental Psychology (Graduate Core Course)
- *Distance Education* Developmental Psychology (Graduate Core Course)

Honors Courses

- Cognitive Science
- The Human Mind

Human Factors

Introductory Psychology

PROFESSIONAL SERVICE AND LEADERSHIP (selected)

2011-2013	University Research Council
2010-2013	Arts & Sciences Faculty Affairs Committee
2010-2012	Chair, Psychology SURF Funds Advisory Committee
2014-Present 2010-2011	Biology Department P & T Committee
2009-2014	Chair, Psychology Department Promotion and Tenure (P & T) Committee
2013-Present	Psychology Department Undergraduate Curriculum Committee
2009-2011	Member, Psychology Department Master's Degree Distance Education Program Committee
2007-2008	Arts and Sciences Faculty Awards Committee
2006-2009	Computer Science Department P & T Committee
2006	ADVANCE program leadership program participant
2005-Present	ADVANCE program mentor to female faculty members

2005-2006	Biosciences Sub-cluster Leader (Cognitive, Neural, and Behavioral Sciences; 22 faculty)
2004-2009	Chair, P & T Committees for 2 faculty members
2004	Member, Family & Child Sciences Assistant Professor Search Committee
2003-2006	History Department P & T Committee
2002-2009	Chair, Psychology Department Search Committees for Assistant Professor in Engineering and Cognitive Psychology (3 times)
2000-2010	Psychology Department Undergraduate Program Committee
2001	Psychology Department Field Experience Coordinator
2000	Arts and Sciences Committee to create 5-year plan for the College
1999	Focus group participant on the topic of Teaching Child Development at the Society for Research in Child Development meeting
1991-Present	Research mentor to over 25 minority undergraduate and graduate students pursuing careers in psychology through nationally-funded programs (MBRS-RISE; MARC; American Indian Bridge Program; McNair Program; Howard Hughes Medical Institute Program)
1989-1995	Chair, Psychology Department Colloquium Committee

EDITORIAL EXPERIENCE

1989-Present	Ad Hoc Reviewer , <u>Artificial Intelligence Review Journal</u> ; <u>Behaviour Research and Therapy</u> ; <u>Behavioural Brain Research</u> ; <u>Brain and Cognition</u> ; <u>Child Development</u> ; <u>Cognition</u> ; <u>Cognition and Emotion</u> ; <u>Developmental Psychology</u> ; <u>Developmental Science</u> ; <u>European Journal of Cognitive Psychology</u> ; <u>Journal of Experimental Child Psychology</u> ; <u>Journal of Gerontology: Psychological Sciences</u> ; <u>Journal of Memory and Language</u> ; <u>Journal of Nonverbal Behavior</u> ; <u>Memory & Cognition</u> ; <u>Psychology and Aging</u> ; <u>Psychoneuroendocrinology</u> ; <u>Stress</u> .
1989-Present	Book Reviewer , Numerous books in Introductory Psychology, Developmental Psychology, Human Factors, and Research Methods

COMMUNITY OUTREACH ACTIVITIES

2011	Associate Film Producer, <i>Utopia on the Rio Grande</i>
2010-2013	Piano player at Cottonbloom Nursing Home Facility in Las Cruces
2008-Present	Piano accompanist, First Christian Church in Las Cruces
2006	Guest speaker at Oñate High School to discuss Philosophy of Science and the Brain
2001-2003	Court-Appointed Special Advocates for Children (CASA) Volunteer
1999	Guest speaker at El Paso Community College “Director Accreditation” class

1995 Guest speaker at Good Samaritan Village to talk about Aging and the Brain
1994 Participant in the “Expanding Your Horizons Conference” for high school girls
1983-Present Raising 3 children!