

Mark S. Strauss, Ph.D.

Personal Information:

Work Address: Department of Psychology
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Education:

1978 Ph.D. in Psychology
University of Illinois, Champaign, IL
Advisor: Leslie B. Cohen

1972 M.A. in Psychology
Case Western Reserve University, Cleveland, Oh
Advisors: Robert Fantz & Joseph Fagan
(concurrent with B.A.)

1972 B.A. in Psychology
Case Western Reserve University, Cleveland, Oh

Professional Experience

1999-2001 Chairperson, Developmental Psychology Program
1982-1986 University of Pittsburgh

1986-1999 Founder and Associate Director
[Office of Child Development](#)
University of Pittsburgh

1988-1992 Chairperson, Department of Psychology
University of Pittsburgh

1984 Associate Professor with Tenure
Department of Psychology
University of Pittsburgh

2000, 1998 Visiting Instructor, Department of Psychology
Carnegie-Mellon University

1978-1984 Assistant Professor, Department of Psychology
University of Pittsburgh

1972-1975 Lieutenant, Medical Service Corps
United States Navy Reserve on active duty at:
Submarine Medical Research Laboratory, Groton, CT

Honors and Awards

2006 Elected by Students as an *Honorary Faculty Member*
Golden Key International Honour Society

2005 Chancellor's Distinguished Teaching Award
University of Pittsburgh (University's Highest Honor for
Teaching)

1989 Distinguished Contribution Award
American Psychological Society

Media Experience

Recent Media Interviews:

Pittsburgh Post-Gazette, January, 2007
Pittsburgh Post-Gazette, September 2008
Discover Magazine, March 2009
ABC News, July 2009
Pittsburgh Post-Gazette, September 2010
WTAE T.V., January 2010
WQED T.V., March 2010
Ivanhoe Communications (syndicated to 250 stations), May 2011

Media Consulting Experiences

KDKA-T.V., "For Kids Sake Project" Helped create over 40, thirty second pieces that aired between programming.

Westinghouse T.V.: The Discovery Year (Nationally distributed program hosted by Christopher Reeve)

CBS: "Cobbs Law" (Made for T.V. Movie with Walter Matthau and Art Carnie)

Life Magazine: Cover story on infant development

Representative Guest Appearances:

Walter Cronkite Universe Show (interview with Charles Osgood)
NBC: Today Show (interview with Connie Chung)
NBC: Today Show (interview with Katie Couric)
KDKA: Pittsburgh 2-day Show
KTCA News (Minneapolis)
WQEX: Parent Talk
WQED: The Editors

Representative Professional Activities

Grant Review Panels:

National Science Foundation, National Institutes of Health, U.S. Department of Education, Autism Speaks Foundation

Community Boards:

2008-present: Chair, Board of Directors, Autism Speaks, Pittsburgh Chapter
1995-2009: Education Committee, Pittsburgh Children's Museum
1994-1998: Evaluation Committee, United Way of Pittsburgh

Representative University Committees:

Member, Council on Aging, Pitt Institute on Aging
Member, Committee to review Graduate School of Public Health
Chairperson, Senate Student Affairs Committee
Member, Provost Budget and Planning Committee
Board Member, University Center for Urban and Social Research
Member, Board of Trustee Budgetary Advisory Committee
Member, Honor's College Development Committee

Teaching Experience

Undergraduate courses routinely taught:

Introductory Psychology, Developmental Psychology, Infant Development
Applied Issues of Children and Families, Graduate Developmental Research and Theory, Freshman Studies, Honor's Introductory Psychology

Recent Ph.D. Students:

Keiran Rump (September 2010), Post-Doctoral Fellowship, University of Pennsylvania
Holly Gastgeb (July 2010), Post-Doctoral Fellowship, WPIC, Pittsburgh, PA
Catherine Best (August, 2010) Post-Doctoral Fellowship, Ohio State
Joyce Giovannelli (2006): Children's Advantage, Ohio
Lisa Newell (2004): Indiana University of Pennsylvania
Rachel Chung (2002): Carlow College
Clayton Mash (1999): National Institutes of Health
Amy Booth (1998): Northwestern University

Grants Received

Current Funding

2007-2012 NICHD (P50): Project I: Biological and Information Processing Mechanisms Underlying Autism Project I (P.I.): Categorization and perceptual knowledge: Its origins and development in high and low function individual with autism (\$1.5 million)

Project II (Co-I.): Disturbances of affective contact: Development of brain mechanisms for emotion processing. (Kevin Pelphrey, P.I.)

2011-2013 NIH: Developmental Characteristics of Diffusion Tensor Pathway Changes in Autism (Co-PI, PI: Thomas Contura, M.D., Ph.D., Washington University)

2010-2011 Autism Science Foundation, Predoctoral Fellowship Support, P.I. (\$28,000)

2010-2015 NIH: Early Social and Emotional Development in Toddlers at Genetic Risk for Autism (Co-I, PI: Susan Campbell)

Past Funding:

2008-2010 Autism Speaks, Predoctoral Fellowship Support, P.I. (\$62,000)

2005-2007 National Alliance for Autism Research, Predoctoral Fellowship Support, P.I. (\$50,000)

2002-2007 NICHD Collaborative Program of Excellence in Autism
Project I: Categorization and the abstraction of concepts in individuals with autism, P.I. (664,000)

1996-2001 U.S. Department of Education, Urban Community Service Program, co-P.I., (\$1.7 million)

1993-1996 U.S. Department of Education, Pittsburgh Urban Community Service Program, co-P.I. (\$1.5 million)

1992-1995 Heinz Endowment, Support for the Office of Child Development, co-P.I. (\$600,000)

1989-1992 Heinz Endowment, Support for the Office of Child Development, co-P.I. (\$525,000)

1992-1997 U.S. Office of Human Development Services, Training grant in Public Child Welfare, P.I. (\$750,000)

- 1990-1991 U.S. Office of Human Development Services, Subcontract for training on child abuse and neglect, Mary Carasco, M.D., P.I. (\$25,000)
- 1987-1990 National Center on Child Abuse and Neglect, U.S. Office of Human Development Services, U.S. Department of Health and Human Services, Interdisciplinary Training Grant on Child Abuse and Neglect. P.I., (\$460,000).
- 1986-1988 Heinz Endowment, Establishment and support of the "Office of Child Development, P.I., (270,000)
- 1986-1989 The Buhl Foundation, Establishment and support of the "Office of Child Development, P.I. (\$140,000)
- 1985-1988 U.S. Department of Education, Interdisciplinary training for Developmental Psychology Specialists for Handicapped Children, P.I., (&267,000)
- 1984-1987 National Science Foundation, Development of Numerical Concepts in Infants P.I., (240,000)
- 1984 The Pittsburgh Foundation, Sponsor of conference on "Child Development and the Media, P.I. (\$10,000)
- 1984 Maurice Falk Foundation, Sponsor of conference on "Child Development and the Media, P.I. (\$5,000)
- 1981 The Buhl Foundation, Visual Acuity Assessment of Severely Handicapped Infants and Children, P.I. (\$70,000)

Publications

- Cornell, E. H., & Strauss, M. S. (1973). Infants' responsiveness to compounds of habituated visual stimuli. *Developmental Psychology, 9*, 73-78.
- Kinney, J., Luria, S., & Strauss, M. S. (1974). Visual evoked During Saturated Diving *Aerospace Medicine, 45*, 1017-1025.
- Kinney, J., Luria, S., Strauss, M. S., McKay, C., & Paulson, H. (1974). *Shallow habitat air dive series (Shad 1 and 2): The effects on visual performance and physiology. Naval Submarine Medical Research Laboratory, Report 793.*
- Luria, S., Paulson, H., Kinney, J., McKay, C., Strauss, M. S., & Ryan, A. (1975). The effects of common therapeutic drugs on vision. *Naval Submarine Medical Research Laboratory, Report 808.*
- Luria, S., & Strauss, M. S. (1975). Eye movements during search for coded and uncoded targets. *Perception and Psychophysics, 17*, 303-308.

- McKay, C., Strauss, M. S., Kinney, J., & Luria, S. (1977). Visual evoked responses, EEG's, and reaction time during normoxic saturation dive, *NISAT Undersea Biomedical Research*, 4, 131-145.
- Luria, S., & Strauss, M. S. (1978). Comparison of eye movements over faces in photographic positives and negatives. *Perception*, 1, 349-358.
- Cohen, L. B., DeLoache, J., & Strauss, M. S. (1979). Infant Visual Perception. In J. Osofsky (Ed.), *Handbook of Infancy*. New York: John Wiley.
- DeLoache, J., Strauss, M. S., & Maynard, J. (1979). Picture perception in infancy. *Infant Behavior and Development*, 2, 77-89.
- Strauss, M. S. (1979). The abstraction of prototypical information by adults and 10-monthold infants. *Journal of Experimental Psychology: Human Learning and Memory*, 50, 618-632.
- Carter, P., & Strauss, M. S. (1981). Habituation is not enough, but it's not a bad start: A reply to Sophian. *Merrill-Palmer Quarterly*, 27, 333-337.
- Strauss, M. S., & Curtis, L. E. (1981). Infant perception of numerosity. *Child Development*, 52(1146-1152).
- Strauss, M. S., & Johnson, C. N. (1982). Academic Perspectives: Applying research, teaching research and pursuing a career. *Child Care Quarterly*, 11, 55-66.
- Kail, R. B., & Strauss, M. S. (1984). Child Development Research: An historical perspective. In R. Kail & N. Spear (Eds.), *Comparative approaches to the study of memory development*. Hillsdale, NJ: Erlbaum.
- Olson, G. M., & Strauss, M. S. (1984). Theories of infant memory: Past, present, and future. In M. Moscovitch (Ed.), *Infant Memory: The Erindale Symposium on Cognition*. New York: Plenum Press.
- Strauss, M. S., & Carter, P. (1984). Infant Memory development: Limitations and future directions of research. In R. Kail & N. Spear (Eds.), *Comparative approaches to the study of memory development*. Hillsdale, NJ: Erlbaum.
- Strauss, M. S., & Curtis, L. E. (1984). The development of quantitative knowledge in infancy. In C. Sophian (Ed.), *The origins of cognitive skill*. Hillsdale, NJ: Erlbaum
- Strauss, M. S., & Brownell, C. A. (1985). A commentary on infant stimulation programs. In M. Frank (Ed.), *Infant programs: Truths and untruths*. New York: Hayworth Press.
- Brownell, C. A., & Strauss, M. S. (1984). Infant stimulation and development: Conceptual and

empirical consideration. *Child Care Quarterly*, 17.

- Brownell, C. A., & Strauss, M. S. (1985). Infant stimulation and development: Conceptual and empirical considerations. In M. Frank (Ed.), *Infant programs: Truths and Untruths*. New York: Plenum.
- Lewis, P., & Strauss, M. S. (1986). Infant concept development. In G. Whitehurst (Ed.), *Annals of Child Development*. Storrs, CT: J.A.I. Press.
- Sandstrom, D., & Strauss, M. S. (1986). Visual acuity, perception and memory in infants with Interventricular Hemorrhaging. *Infant Behavior and Development, Special Issue*, 6.
- McCall, R. B., Green, B.L., Strauss, M. S., & Groark, C. J. (1998). Issues in community-based research and program evaluation. In I. E. Siegel & K. A. Renninger (Eds.), *Handbook of Child Psychology* (5 ed., Vol. 4). New York: Wiley.
- McCall, R. B., Green, B. L., Groark, C. J., Strauss, M. S., & Farber, A. E. (1999). An Interdisciplinary, University-Community, Applied Developmental Science Partnership. *Journal of Applied Developmental Psychology*, 20.
- McCall, R. B., Groark, C. J., Strauss, M. S., & Johnson, C. N. (1997). An experiment in promoting interdisciplinary applied human development: The University of Pittsburgh model. *Journal of Applied Developmental Psychology*, 16, 609-628.
- McCall, R. B., Groark, C. J., Strauss, M. S., & Johnson, C. N. (1998). Challenges of university-community outreach to traditional universities: The University of Pittsburgh Office of Child Development experience. In R. M. Lerner & L. A. K. Simon (Eds.), *University-Community Collaborations for the Twenty-First Century: Outreach Scholarship for Youth and Families*. New York: Garland.
- McCall, R. B., Green, B.L., Groark, C.J., Strauss, M.S., & Farber, A.E. (1999). An Interdisciplinary, University-Community, Applied Developmental Science Partnership. *Journal of Applied Developmental Psychology*, 20, 207-226.
- Gastgeb, H., Strauss, M. S., & Minshew, N. J. (2006). Do Individuals With Autism Process Categories Differently: The Effect of Typicality and Development. *Child Development*, 77, 1717-1729.
- Rump, K. M., Giovannelli, J. L., Minshew, N. J., & Strauss, M. S. (2009). The Development of Emotion Recognition in Individuals with Autism: An Expertise Approach. *Child Development*, 80, 1434-1447.
- Gastgeb, H., Rump, K. M., Best, C. A., Minshew, N. J., & Strauss, M. S. (2009). Prototype Formation in Autism: Can Individuals with Autism Abstract Facial Prototypes. *Autism Research*, 2, 1-6.
- Best, C. A., Minshew, N. J., & Strauss, M. S. (2010). Gender Discrimination of Eyes and Mouths

by Individuals with Autism. *Autism Research*, 3, 88-93.

Wilkinson, D, Best, C.A., Minshew, J. & Strauss, M.S., (2010) Memory Awareness and Theory of Mind in Individuals with Autism, *Journal of Autism and Developmental Disabilities*, 40, 1371-1377.

Newell, L. C., Best, C. A., Gastgeb, H., Rump, K. M., & Strauss, M. S. (2011). The development of categorization and facial knowledge: Implications for the study of autism. In L. M. Oakes, C. H. Cashon, M. Casasola & R. H. Rakison (Eds.), *Infant perception and cognition: Recent advances, emerging theories, and future directions*.

Gastgeb, H., Best, C.A., Minshew, N.J., & Strauss, M.S., (in press) Can Individuals with Autism Abstract Prototypes of Natural Faces? *Journal of Autism and Developmental Disabilities*.

Dundas, E., Best, C.A., Minshew, N.J., & Strauss, M.S., (in press) A Lack of Left Visual Field Bias when Individuals with Autism Process Faces

Strauss, M.S., Newell, L.C., Best, C.A., Hannigen, S.F., Gastgeb, H.Z., & Giovannelli, J.L., (in submission) The development of facial gender categorization in individuals with and without autism: The impact of typicality.

Gastgeb, H.Z, Dundas, E.M., Minshew, N.J., & Strauss, M.S. (in submission) Category formation in autism: Can individuals with autism form categories and prototypes of dot patterns.

Wilkinson, D.A., Best, C.A., Strauss, M.S., (in submission) Are individuals with autism able to perceive facial distinctiveness?

Dundas, E., Gastgeb, H., & Strauss, M.S. (in submission) Left visual field biases when infants process faces: A comparison of infants at high- and low- risk for autism spectrum disorders.

Best, C.A., Giovannelli, J.L., Strauss, M.S., (in submission) The Development of a face space in childhood: Memory for typical and distinctive faces in children with and without autism.

Representative Recent Conference Papers and Posters

Hannigen, S.F., Rump, K., Lynn, K.M., & Strauss, M.S.(2011) Bisual attention to smiling and neutral faces: Effects of smile intensity and infant risk-status. Poster presented at the International Meetings for Autism Research, San Diego, CA.

Rump, K. & Strauss, M.S. Ecological momentary assessment: A new method for studying affect in adolescents with autism. (2011) Poster presented at the International Meetings for Autism Research, San Diego, CA.

Green, S.C., Chua, K.W., Wexler, D.N. & Strauss, M.S. An eye-scanning approach to measuring receptive language abilities in infant at high and low risk for autism. Poster presented at the

International Meetings for Autism Research, San Diego, CA.

Gastgeb, H.Z., Wilkinson, D., Minshew, N.J., & Strauss, M.S. Can individuals with autism abstract prototypes of faces? Poster presented at the International Meetings for Autism Research, San Diego, CA.

Conturo, T.E., Williams, D.L., Smith, C.D., McMichael, A.R., Chua, K.W., Green, S.C., Strauss, M.S., Minshew, N.J. (2011) Network model of face processing in autism based on diffusion tensor tracking (DTT) and behavioral data. Poster presented at the International Meetings for Autism Research, San Diego, CA.

Hannigen, S.F., Bobak, A., Minshew, N.J. & Strauss, M.S., Development of positive affect matching between infants at high and low risk for autism. (2011) Poster presented at the meetings of the Society for Research in Child Development, Montreal, CN

Chua, K.W., Green, S.C., & Strauss, M.S.,(2011) An Eye-Scanning Approach to Studying Receptive Language in Typically Developing Infants. Poster presented at the meetings of the Society for Research in Child Development, Montreal, CN

Strauss, M.S., Gastgeb, H., Chua, K.W., Green, S., Hannigen, S.F., & Wilkinson, D.,(2010) The abstraction of prototypes by infants at low and high risk for autism. International Meetings for Autism Research, Philadelphia, PA

Conturo, T.E., Williams, D.L., William, E.L., Smith, C.D., Gultepe, E, Akbudak, E., Strauss, M.S., & Minshew, N.J., (2010) Microstructural changes in face processing pathways in autism, Diffusion tensor tracking (DTT) with behavioral comparison. International Meetings for Autism Research, Philadelphia, PA

Hannigen, S., Minshew, N., & Strauss, M.S. (2010) Mothers' Affective Responses to High- and Low-Risk Infants During Face-to-Face Interaction: Effects of Infant Risk-Status and Age. International Meetings for Autism Research, Philadelphia, PA.

Hannigen, S. & Strauss, M.S., (2010) Smiling Behavior of Infants at Low and High Risk for Autism: Are High Risk Infants Less Attuned to Changes in Interactive Context? International Conference for Infant Studies, Baltimore, MD

Best, C.A., Wilkinson, D. & Strauss, M.S. (2009) Ratings of Facial Attractiveness by High-Functioning Individuals with Autism, International Meetings for Autism Research, Chicago, IL

Gastgeb, H., Dundas, E., Minshew, N., & Strauss, M.S., (2009) Category Formation in Autism: Can Individuals with Autism Form Categories of Dot Patterns, International Meetings for Autism Research, Chicago, IL

Wilkinson, D., Minshew, N., & Strauss, M.S., (2009) Recognition of Distinctive Faces in Individuals with Autism, International Meetings for Autism Research, Chicago, IL

Hannigen, S., Best, C., Rump, K., Minshew, N., & Strauss, (2009) An eye-tracking study: The effect of task on visual attention faces in autism. International Meetings for Autism Research, Chicago, IL

Best, C.A., Dundas, E.M. & Strauss, M.S. (April 2009). Identifying gender information in morphed faces: An eye tracking study of individuals with autism. Poster at the Society for Research in Child Development, Denver, CO

Dundas, E.M., Gastgeb, H.Z., Best, C.A., & Strauss, M.S.,(April 2009) Perceptual bias in face processing: An eye tracking study of individuals with autism. Poster at the Society for Research in Child Development, Denver, CO

Rump, K.M., Dundas, E.M., & Strauss, M.S. (April, 2009) Performance and process of emotion recognition in individuals with autism: A developmental perspective. Poster at the Society for Research in Child Development, Denver, CO

Wilkinson, D.A., Minshew, N.J., & Strauss, M.S. (April 2009). Facial processing in individuals with autism: A closer look at configural and featural processing. Poster at the Society for Research in Child Development, Denver, CO

Rump, K. Gastgeb, H. Minshew, N., & Strauss, M.S. (2007) Metacognitive monitoring in children and adults with autism: Examining self-awareness of knowledge. Poster at the International Meetings for Autism Research, Boston, MA

Wilkinson, D.A., Best, C.A., Minshew, N.J., Strauss, M.S., (2007) Metamemory in individuals with autism: Self-awareness of performance of facial recognition tasks. Poster at the International Meetings for Autism Research, Boston, MA

Best, C.A., Strauss, M.S., Newell, L.C., & Minshew, N.M. (2007) Memory for faces: A comparison of intentional vs. incidental paradigms. Poster at the International Meetings for Autism Research, Boston, MA

Gastgeb, H., Strauss, M., S., & Minshew, N. J. (June 2006). Do Individuals with Autism Process Categories Differently? The Effect of Typicality on the Development of Expertise. Poster session at the International Meeting for Autism Research, Montreal, Canada.

Rump, K.M., Strauss, M.S., & Minshew, N.J. (June, 2006). *The development of emotion recognition in individuals with autism: Are children more proficient than adults?* Poster accepted for presentation at the International Meeting for Autism Research, Montreal, Canada.

Best, C. A., Strauss, M. S., & Minshew, N. J. (June, 2006) Gender recognition of facial regions: How well do individuals with autism identify gender when shown eyes and mouths separately?

Gastgeb, H., Strauss, M.S., Rump, K.M., Best, C.A., Newell, L.C., Minshew, N.J.(2005) Do Individuals With Autism Process Categories Differently: The Effect of Typicality on Basic Level

Object Categorization. Poster to be presented at the meetings of the Society for Research in Child Development, Atlanta, GA.

Best, C.A., Strauss, M.S., Newell, L.C., Gastgeb, H., Rump, K.M., Minshew, N.J., (2005) Memory Abilities of Children and Adults With Autism: Incidental Recognition of Distinctive Versus Typical Faces, Poster to be presented at the meetings of the Society for Research in Child Development, Atlanta, GA.

Strauss, M.S., Newell, L.C., Best, C.A., Rump, K.M., Gastgeb, H., Minshew, N.J. (2005) Discrimination of Facial Gender by Typically Developing Children and Individuals With Autism, Poster to be presented at the meetings of the Society for Research in Child Development, Atlanta, GA.

Strauss, M.S., Turner, K., Booth, J, Minshew, N.J., Numerical Estimation: Do individuals with autism demonstrate superior abilities? Poster to be presented at the International Meetings for Autism Research, Boston, MA. May, 2005

Gastgeb, H., Strauss, M.S., Minshew, N.J. (2005) Object Categorization in individuals with autism. Poster to be presented at the International Meetings for Autism Research, Boston, MA.

Best, C.A., Strauss, M.S., Newell, L.C., Minshew, N.J., Face knowledge in individuals with autism: abstracting specific information from faces. (2005), Poster to be presented at the International Meetings for Autism Research, Boston, MA.

Rump, K.M., Strauss, M.S., Giovannelli, J., Turner, K., Minshew, N.J., (2005) Recognizing subtle expressions of emotion: individuals with autism and emotion recognition. Poster to be presented at the International Meetings for Autism Research, Boston, MA.

Strauss, M.S., The role of gender categorization in face recognition. International Conference for Infant Studies, Chicago, 2004

Best, C.A., Newell, L., & Strauss, M.S. Gender categorization in preschool children: The effects of typicality and hair. International Conference for Infant Studies, Chicago, 2004 Preschoolers' implicit memory for typical and distinctive faces. International Conference for Infant Studies, Chicago, 2004

Strauss, M.S. The Perception and Recognition of Faces by Infants, Preschoolers, and Individuals With Autism. Paper presented at Society for Research in Child Development. Tampa,

Strauss, M.S. Symposium Chair, The Development of Facial Expertise, Society for Research in Child Development, Tampa. development, Boston, 1981. Infant immediate and delayed memory for perceptual dimensions. International conference of infant studies, New Haven, 1980. Abstraction of prototypical information. American Psychological Association, 1979.

Recent Invited Talks

Baby Sibling Research Consortium, San Francisco, December 2007

Carnegie Mellon University, Pittsburgh, October 2008
Autism Speaks, Los Angeles, May 2008
ARC National Conference, Keynote Luncheon Speaker, 2009
Children's Hospital of Pittsburgh, Child Development Unit, September 2009
Baby Sibling Research Consortium, Miami, January 2009
Mr. Roger's Company, Pittsburgh, January 2009
Prestley Ridge School, Pittsburgh, April 2009
North Allegheny High School, April 2009
Parents in Toto, Zienople, Pa, May 2010
Children's Institute of Pittsburgh, December 2010
LEND Program, Children's Hospital of Pittsburgh, April 2011
Autism Through the Lifespan Conference, Pittsburgh, April 2011
Children's Hospital of Philadelphia, June 2011