CURRICULUM VITAE

Scott A. Adler

**GENERAL INFORMATION**

**Professional Address**:

Department of Psychology

Centre for Vision Research

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**Education**:

Brooklyn College-CUNY - 1985-1990 B.S. - 1990 (Psychology- Honours)

Rutgers University - 1990-1995 M.S. - 1992 (Cognitive Psychology)

Ph.D. - 1995 (Cognitive Psychology)

**Academic Positions**:

Associate Professor York University 2005 - present

Assistant Professor York University 2000 - 2005 Research Associate Salk Institute for Biological Studies 1998 - 2000

Postdoctoral Fellow University of Denver 1995 - 1998

Teaching Assistant Rutgers University 1990 - 1995

# Research Assistant Montefiore Medical Center 1987 - 1990

**Honours and Awards**:

Member, Psi Chi - The National Psychological Honor Society 1990

Winner, Master’s Thesis of the Year Award - New Jersey Psychological Assoc. 1992

Winner, Dissertation Award - International Society for Infant Studies 1996

Honorable Mention, Shahin Hastroudi Memorial Prize

- American Psychological Society 1996

Research Merit Award - York University 2006

**PROFESSIONAL CONTRIBUTION AND STANDING:**

**Research Support**:

National Institute of Mental Health Postdoctoral Fellowship (University of Denver) –

“Visual Expectations in Infancy”, US$75,000, 1995 - 1998

Natural Sciences and Engineering Research Councils Grant –

“Infant Memory Processes and Cognitive Expectations”, $68,000, 2001 - 2004

Natural Sciences and Engineering Research Council Equipment Grant –

“Infants’ Eye Movements and Cognitive Expectations”, $35,000, 2001

Natural Sciences and Engineering Research Council Discovery Grant –

“Nature of the Development of Expectation Mechanisms”, $25,500, 2005 - 2007

York Faculty of Arts Research Grant --

“The Development of Selective Attention in Infancy”, $5,000, 2006 - 2007

York University Advanced Research Seminar Grant --

“The Development of the Infant as an Integrated Whole”, $7,500, 2007

Social Sciences and Humanities Research Council Small Grant --

“The Development of Selective Attention in Infancy”, $1,500, 2007 - 2008

York Faculty of Health Research Grant --

“The Development of Selective Attention in Infancy”, $3,000, 2007 - 2008

York Faculty of Health Research Grant --

“The Development of Selective Attention in Infancy”, $3,000, 2009 - 2010

National Institute of Mental Health Small Grant (R03) --

“Development of Selective Attention in Infancy as Measured by Eye Movements”,

US$100,000, 2010 - 2013

York Faculty of Health Research Grant --

“The Development of Selective Attention in Infancy”, $3,000, 2013 - 2014

York Faculty of Health Research Grant --

“The Development of Selective Attention in Infancy”, $3,000, 2015 - 2016

The Hallward Fund of the Toronto Foundation —

“Exploring the Caesarean Birth Experience as a Risk Factor for Attentional and Cognitive Developmental Consequences” $205,000, 2016 -2022

**Publications**:

Articles (Refereed)

Kato, M., Brijlall, D., Adler, S.A., Kato, S., & Herz, F. (1992). Effect of hyperosmolality on

alkaline phosphatase and stress-response protein 27 of MCF-7 breast cancer cells. Breast

Cancer Research and Treatment, 23, 241-249.

# Herz, F., Deitch, D., Adler, S.A., & Brijlall, D. (1993). Short-term culture of exfoliated cells

from the urine of patients with bladder tumors. Urological Research, 21, 23-26.

Rovee-Collier, C., Borza, M., Adler, S.A., & Boller, K. (1993). Infant eyewitness testimony:

Integrating postevent information with a prior memory representation. Memory and

Cognition, 21, 267-279.

# Adler, S.A., & Rovee-Collier, C. (1994). The memorability and discriminability of primitive

perceptual units in infancy. Vision Research, 34, 449-459. (Reproduced on the database

of the Educational Resources Information Center [ERIC].)

Rovee-Collier, C., Adler, S.A., & Borza, M. (1994). Substituting new details for old? Effects of

delaying postevent information on infant memory. Memory and Cognition, 22, 644-656.

Adler, S.A. (1997). Selective integration of temporally distinct perceptual information in infant

memory. Infant Behavior and Development, 20, 3-28.

Adler, S.A., Gerhardstein, P., & Rovee-Collier, C. (1998). Levels-of-processing effects on

infant memory? Child Development, 69, 280-294.

Adler, S.A., Inslicht, S., Rovee-Collier, C., & Gerhardstein, P.C. (1998). Perceptual asymmetry

and memory retrieval in 3-month-old infants. Infant Behavior and Development, 21,

253-272.

Adler, S.A., Wilk, A., & Rovee-Collier, C. (2000). Reinstatement versus reactivation effects on

active memory in infants. Journal of Experimental Child Psychology, 75(2), 93-115.

Gerhardstein, P.C., Adler, S.A., & Rovee-Collier, C. (2000). A dissociation in infants’ memory

for stimulus size: Evidence for the early development of multiple memory systems.

Developmental Psychobiology, 36, 125-135.

Krauzlis, R., & Adler, S.A. (2001). Effects of directional expectations on motion perception and

pursuit eye movements. Visual Neuroscience, 36, 125-135.

Adler, S.A., Bala, J., & Krauzlis, R. (2002). Primacy of spatial information in target selection

for pursuit and saccades. Journal of Vision, 2, 627-644, <http://journalofvision.org/2/9/5/>,

DOI 10.1167/2.9.5.

Adler, S.A., & Haith, M.M. (2003). The nature of infants’ visual expectations for event content.

Infancy, 4, 389-421. doi: 10.1207/S15327078IN0403\_05

Adler, S.A., & Orprecio, J. (2006). The eyes have it: Visual pop-out in infants and adults.

Developmental Science, 9, 189-206. doi: 10.1111/j.1467-7687.2006.00479.x

# Baker, T.J., Tse, J., Gerhardstein, P.C., & Adler, S.A. (2008). Contour integration in 6-month- old infants: Discrimination of distinct contour shapes. Vision Research, 48, 136-148.

# doi: 10.1016/j.visres.2007.10.021

# Adler, S.A., Haith, M.M., Arehart, D.M., & Lanthier, E.C. (2008). Infants’ visual expectations and the processing of time. Journal of Cognition and Development, 9, 1-25.

Adler, S. A. & Gallego, P. (2014). Search asymmetry and eye movements in infants and adults.

Attention, Perception, & Psychophysics, 76, 1590-1608. doi: 10.3758/s13414-014-0667-

6

Adler, S.A., & Wong-Kee-You, A.M.B. (2015). Differential attentional responding in caesarean versus vaginally delivered infants. Attention, Perception, & Psychophysics, 77, 2529-2539. doi: 10.3758/s13414-015-0969-3

Wong-Kee-You, A.M.B., & Adler, S.A. (2016). Anticipatory eye movements and long-term memory in early infancy. Developmental Psychobiology, 58, 841-851. doi:

10.1002/dev.21472

Comishen, K.J., Bialystok, E., & Adler, S.A. (2019). The impact of bilingual

environments on selective attention in infancy. Developmental Science, 22(4), e12797.

doi: 10.1111/desc.12797

Comishen, K.J., & Adler, S.A. (2019). The development of infants’ expectations for event

timing. Timing and Time Perception, 7, 219-242. doi: 10.1163/22134468-20191148

Wong-Kee-You, A.M.B., Tsotsos, J., & Adler, S.A. (2019). Spatial attention-

modulated surround suppression across development: A psychophysical study. Journal of Vision, 19(7):9, 1-16. doi: 10.1167/19.7.9.

Adler, S.A., Comishen, K.J., Wong-Kee-You, A.M.B., & Chubb, C. (2020).

Sensitivity to major versus minor musical modes is bimodally distributed in young infants. The Journal of the Acoustical Society of America, 147(6), 3758-3764. doi: 10.1121/10.0001349.

Adler, S.A., & Baker, T.J. (under review). Speed of information processing in infants and

adults: Age differences in saccadic reaction time sensitivity. Cognition.

Stevens, D.\*, Adler, S.A.\*, Solomon-Harris, L., Comishen, K.J., Wong-Kee-You, A.M.B., Spreng, N., & Turner, G. (submitted). Visual attention deficits and aberrant brain network connectivity in adults born via C-section. Science. (\*co-first and corresponding authors)

Articles and Chapters (Invited)

Rovee-Collier, C., & Adler, S.A. (1994). Les souvenires des nourrisons (Long-term memory in

infants and toddlers). La Recherche (Paris), Special Issue: La Memoire, 25 (267), 736-

741. (Also reprinted in Spanish edition.)

Haith, M.M., Wass, T., & Adler, S.A. (1997). Infant expectations: Advances and issues.

Monographs of the Society for Research in Child Development, 62 (2, Serial No. 250),

150-160.

Adler, S.A. (2005). Visual search and pop-out in infancy. In L. Itti, G. Rees, and J. Tsotsos (Eds.), The neurobiology of attention. Amsterdam: Elsevier Press.

Gerhardstein, P.C., Shroff, G., Dickerson, K., & Adler, S.A. (2009). The development of object recognition through infancy. In F. Columbus (Ed.), New directions in

developmental psychobiology. Nova Science Publishers: New York.

Book

Vasta, R. Younger, A., Adler, S.A., Miller, S.A., & Ellis, S. (2008). Child Psychology: 2nd Canadian Edition. Mississauga, ON: John Wiley & Sons Canada.

Younger, A., Adler, S.A., & Vasta, R. (2012). Child Psychology: A Canadian Perspective (3rd Edition). Mississauga, ON: John Wiley & Sons Canada.

**In Progress Work:**

Adler, S.A., Wong-Kee-You, A.M.B., & Fuda, C. (in preparation). Saccadic localization of a

conjunction target by infants and adults. Attention, Perception, & Psychophysics.

Wong-Kee-You, A.M.B., & Adler, S.A. (in preparation). The effect of target-distractor

similarity on single-feature target search performance in development: A diffusion model

analysis. Developmental Science.

Rahimi, M., & Adler, S.A. (in preparation). Impact of caesarean section type on infants’ and

adults’ selective attention and visual search. Proceedings of the National Academy of

Sciences.

Adler, S.A., & Baker, T.J. (in preparation). Infants’ face perception: Sensitivity to geometric

variability and orientation. Developmental Psychology.

Adler, S.A. (in preparation). Infant long-term memory for partially occluded shapes. Infancy.

Adler, S.A. (in preparation). Visual expectations in infancy: A prelude to cognitive planning.

Developmental Review.

# **Conference Presentations**:

Papers (refereed)

# Rovee-Collier, C., & Adler, S.A. (1991, April). Substituting details in infant memory. Paper

# presented at the meeting of the Eastern Psychological Association, New York City, NY.

Adler, S.A., & Rovee-Collier, C. (1992, April). Differential forgetting of textons in 3-month-old

infants. Paper presented at the meeting of the Eastern Psychological Association, Boston,

MA.

Adler, S.A., & Rovee-Collier, C. (1993, March). Infant memory for primitive perceptual

features. Paper presented at the meeting of the Society for Research in Child

Development, New Orleans, LA.

Adler, S.A., & Rovee-Collier, C. (1993, April). Delay effects on a prior memory. Paper

presented at the meeting of the Eastern Psychological Association, Crystal City, VA.

Adler, S.A., & Rovee-Collier, C. (1993, November). Resetting infant memories. Paper

presented at the meeting of the International Society of Developmental Psychobiology,

Arlington, VA.

Adler, S.A., & Rovee-Collier, C. (1994, April). Specificity in resetting infants’ memories.

Paper presented at the meeting of the Eastern Psychological Association, Providence, RI.

Adler, S.A., & Rovee-Collier, C. (1994, May). The effect of enhanced attention on infants’

perceptual memory. Paper presented at the meeting of the Association for Research in

Vision and Ophthalmology, Sarasota, FL.

Adler, S.A., & Rovee-Collier, C. (1994, June). The effect of enhanced attention on infants’

memory. Paper presented at the International Conference on Infant Studies, Paris,

France.

Adler, S.A., Inslicht, S., & Rovee-Collier, C. (1995, March). Search asymmetries and memory

retrieval in 3-month-old infants. Paper presented at the meeting of the Society for

Research in Child Development, Indianapolis, IN.

Adler, S.A., Gerhardstein, P.C., & Rovee-Collier, C. (1995, March). Facilitation and

suppression effects of differential attention on infants’ perceptual memory. Paper

presented at the meeting of the Eastern Psychological Association, Boston, MA.

Adler, S.A. (1995, May). Infants’ integration of perceptual information across temporally

separated presentations. Paper presented at the meeting of the Association for Research

in Vision and Ophthalmology, Ft. Lauderdale, FL.

Adler, S.A. (1996, April). Selective integration of perceptual information in infant memory.

Paper presented at the International Conference on Infant Studies, Providence, RI.

Gerhardstein, P.C., Adler, S.A., & Rovee-Collier, C. (1996, April). Attention enhances and

suppresses retention at 3 months. Paper presented at the International Conference on

Infant Studies, Providence, RI.

Gerhardstein, P.C., Adler, S.A., & Rovee-Collier, C. (1996, April). Task-specific size invariance

in 3-month-old infants. Paper presented at the meeting of the Association for Research in

Vision and Ophthalmology, Ft. Lauderdale, FL.

Adler, S.A., Rovee-Collier, C., & Wilk, A. (1996, November). Reinstatement and priming

procedures differentially prolong infant retention. Paper presented at the meeting of the

International Society for Developmental Psychobiology, Washington, DC.

Adler, S.A. (1997, April). Infants’ processing of color category information in the formation of

visual expectations. Paper presented at the meeting of the Society for Research in Child

Development, Washington, DC.

Adler, S.A., Haith, M.M., & Lewis, A.A. (1997, April). Effect of asynchronous time intervals

on infants’ expectations. Paper presented at the meeting of the Society for Research in

Child Development, Washington, DC.

Gerhardstein, P.C., Rovee-Collier, C., & Adler, S.A. (1997, April). Three-month-olds show a

dissociation in memory in size. Paper presented at the meeting of the Eastern

Psychological Association, Washington, DC.

Adler, S.A. (1997, November). Infants’ visual expectations for color category information.

Paper presented at the meeting of the Psychonomic Society, Philadelphia, PA.

Adler, S.A. (1998, April). Infant visual expectations for events’ color content. Paper presented

at the International Conference on Infant Studies, Atlanta, GA.

Adler, S.A., & Haith, M.M. (1998, April). Infants form temporal visual expectations based on

the average rate of information flow. Paper presented at the International Conference on

Infant Studies, Atlanta, GA.

Adler, S.A. (1999, April). The future of infants’ future-oriented processes: New directions and

connections. Chaired symposium session at the meeting of the Society for Research in

Child Development, Albuquerque, NM.

Wilk, A., Adler, S.A., & Rovee-Collier, C. (1999, April). Reinstatement versus reactivation

effects on infant memory. Paper presented at the meeting of the Eastern Psychological

Association, Providence, RI.

Krauzlis, R.J., & Adler, S.A. (1999, May). Effects of prior information on perceptual

judgments and smooth eye movements elicited by random dot motion. Paper presented at

the meeting of the Association for Research in Vision and Ophthalmology, Ft.

Lauderdale, FL.

Wilk, A., Adler, S.A., & Rovee-Collier, C. (1999, October). Reinstatement vs. Reactivation

effects on active memory in young infants. Paper presented at the meeting of the

International Society for Developmental Psychobiology, Coral Gables, FL.

Adler, S.A., Bala, J., & Krauzlis, R.J. (1999, October). The effect of prior spatial information on

saccadic and smooth pursuit eye movements. Paper presented at the meeting of the

Society for Neuroscience, Miami Beach, FL.

Bala, J.K., Adler, S.A., & Krauzlis, R.J. (2000, May). Interactions between target selection and

release of fixation for pursuit and saccadic eye movements. Paper presented at the

meeting of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale,

FL.

Adler, S.A., Bala, J.K., & Krauzlis, R.J. (2000, November). Effects of prior sensory and motor

information on the initiation of pursuit and saccades. Paper presented at the meeting of

the Society for Neuroscience, New Orleans, LA.

Adler, S.A., & Orprecio, J.Z. (2002, April). Visual pop-out in infancy: Evidence from eye

movement latencies. Paper presented at the International Conference on Infant Studies,

Toronto, Ontario, Canada.

Adler, S.A., Zeilikman, L., & Mosadegh, S. (2002, April). Working memory and visual

expectations in 3-month-old infants. Paper presented at the International Conference on

Infant Studies, Toronto, Ontario, Canada.

Orprecio, S.A., & Adler, S.A. (2003, May). Visual pop-out in infancy: Effects of set-size on eye

movement latencies. Paper presented at the meeting of the Vision Sciences Society,

Sarasota, FL.

Adler, S.A., Prising, K., & Jung, S. (2004, May). The role of working memory in infants’

expectations. Paper presented at the International Conference on Infant Studies, Chicago,

IL.

#### Adler, S.A., & Orprecio, J. (2004, May). Face perception by young infants: Effects of

geometric variability and orientation. Paper presented at the International Conference on

Infant Studies, Chicago, IL.

Gallego, P., Ramanan, S., & Adler, S.A. (2005, April). Long-term memory and visual

expectations in infancy. Paper presented at the meeting of the Society for Research in

Child Development, Atlanta, GA.

Adler, S.A., Zilberberg, K., & Chockalingam, K. (2005, May). Sensitivity to the geometric

variability of faces in infants. Paper presented at the meeting of the Vision Sciences

Society, Sarasota, FL.

Baker, T.J., Adler, S.A., Tse, J., & Gerhardstein, P. (2005, May). Can 6-month-old infants

integrate individual elements to discriminate contours? Paper presented at the meeting of

the Vision Sciences Society, Sarasota, FL.

Baker, T.J., Adler, S.A., Tse, J., & Gerhardstein, P. (2005, November). Can 6-month-old

infants integrate individual elements to discriminate contours? Paper presented at the

Objects, Perception, and Attention Meeting, Toronto, ON.

Adler, S.A., & Baker, T.J. (2006, May). Infants’ sensitivity to variability in face configuration.Paper presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Baker, T.J., & Adler, S.A. (2006, May). Six-month-old infants’ ability to detect contours. Paper presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Gallego, P., & Adler, S.A. (2006, May). Search asymmetry and eye movements in infancy. Paper presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Adler, S.A., & Baker, T.J. (2007, April). New paradigm for measuring perceptual discriminations: Evidence from contour integration and face discrimination studies.

Paper presented at the meeting of the Society for Research in Child Development, Boston, MA.

Gallego. P., & Adler, S.A. (2007, April). Long-term memory and visual expectations in infancy. Paper presented at the meeting of the Society for Research in Child Development, Boston, MA.

Tse, J., Baker, T.J., Adler, S.A., & Gerhardstein, P. (2007, May). The role of awareness in saccadic conditioning. Paper presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Baker, T.J., & Adler, S.A. (2008, May). Saccadic reaction times and speed of information processing development. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Tung, A., & Adler, S.A. (2010, April). Sensitivity of infants’ expectations to temporal decay. Paper presented at the meeting of the International Society for Infant Studies, Baltimore, MD.

Rajchel, J. & Adler, S.A. (2011, March). Feature processing and illusory conjunctions in

infants’ long-term memory. Paper presented at the meeting of the Society for Research

in Child Development, Montreal, Canada.

Adler, S.A., & Castellan, D. (2011, March). Infants’ long-term memory for occluded shapes. Paper presented at the meeting of the Society for Research in Child Development, Montreal, Canada.

Fuda, M.C., & Adler, S.A. (2011, May). Search asymmetry and eye movements in infants and adults. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Adler, S.A. (2011, May). Feature processing and illusory conjunctions in infants’ long-term memory. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Fuda, C.M., & Adler, S.A. (2012, May). Conjunction search in infants and adults: An eye movement study. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Wong-Kee-You, A.W.K., & Adler, S.A. (2012, May). Spatial cueing of infants’ target selection and eye movements. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Fuda, C.M., & Adler, S.A. (2012, June). Comparing conjunction and feature searches in 3- month-old infants and adults. Paper presented at the International Conference in Infant Studies, Minneapolis, MN.

Adler, S.A., & Direnfeld, L. (2012, June). Infants’ long-term memory of occluded shapes.

Paper presented at the International Conference in Infant Studies, Minneapolis, MN.

Adler, S.A., & Saini, R. (2012, June). Feature processing and illusory conjunctions in infants’ long-term memory. Paper presented at the International Conference in Infant Studies, Minneapolis, MN.

Wong-Kee-You, A.W.K., & Adler, S.A. (2013, May). Anticipatory eye movements, pupil size changes and memory in infants. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Fuda, C.M., & Adler, S.A. (2013, May). Top-down versus bottom-up cueing effects on infants’ conjunction search and eye movements. Paper presented at the meeting of the Vision Sciences Society, Naples, FL.

Wong-Kee-YouYou, A.W.K., & Adler, S.A. (2013, June). Spatial cueing of infants’ target selection and eye movements. Paper presented at the meeting of the Child Vision Research Society, Toronto, Canada.

Fuda, C.M., & Adler, S.A. (2013, June). Top-down versus bottom-up cueing effects on infants’ conjunction search and eye movements. Paper presented at the meeting of the Child Vision Research Society, Toronto, Canada.

Wong-Kee-You, A.W.K., & Adler, S.A. (2014, May). Spatial cueing of infants’ selective attention, target selection and eye movements. Paper presented at the meeting of the Vision Sciences Society, St. Pete Beach, FL.

Adler, S.A., Fuda, C., & Wong-Kee-You, A.M.B. (2014, May). Infant and adult localization of a conjunction target: An eye movement study. Paper presented at the meeting of the

Vision Sciences Society, St. Pete Beach, FL.

Wong-Kee-You, A.M.B., & Adler, S.A. (2014, July). Differential attentional responding in caesarean versus vaginally delivered infants. Paper presented at the meeting of the Canadian Society for Brain, Behavior, and Cognitive Science, Toronto, Canada.

Kakvan, M., Wong-Kee-You, A.M.B., & Adler, S.A. (2015, May). Attentional switching in bilingually- and monolingually-exposed infants. Paper presented at the meeting of the Vision Sciences Society, St. Pete Beach, FL.

Wong-Kee-You, A.M.B., & Adler, S.A. (2015, May). Visual attention differences in caesarean versus vaginally delivered infants. Paper presented at the meeting of the Vision Sciences Society, St. Pete Beach, FL.

Kakvan, M., Wong-Kee-You, A.M.B., Bialystok, E., & Adler, S.A. (2015, June). Attentional switching in bilingually- and monolingually-exposed infants. Paper presented at the meeting of the Canadian Society for Brain, Behavior, and Cognitive Science, Ottawa, Canada.

Comishen, K., Yee, A., Wong-Kee-You, A.M.B., & Adler, S.A. (2016, May). Differential attentional responding in caesarean versus vaginally delivered adults. Paper presented at the meeting of the Canadian Association for Neuroscience Satellite Symposium: Action and Perception, Toronto, Canada.

Wong-Kee-You, A.M.B., Safar, L., Kim, Alice S.N., Rosenbaum, R.S., & Adler, S.A. (2016, November).  Does Target-Distractor Similarity Differentially Affect Visual Search Performance In Children, Adolescents and Adults? Paper presented at the meeting of the Object Perception, Visual Attention, and Visual Memory (OPAM) group, Boston, MA.

Comishen, K.J., & Adler, S.A. (2017, March). The Use of Temporal Information in 6-Month- Old Infants’ Visual Expectations. Paper presented at the 24th Cognitive Neuroscience Society Conference, San Francisco, CA.

Wong-Kee-You, A.M.B., & Adler, S.A. (2017, October). Examining The Effect of Target-

Distractor Similarity on Single-Feature Target Search Performance in Children and Adolescents. Paper presented at the bi-annual Cognitive Development Society

Conference, Portland OR.

Adler, S.A., Comishen, K.J., Wong-Kee-You, A.M.B., & Sabovitch, S. (2018, May). Differential

Attentional Responding in Caesarean versus Vaginally Delivered Adults. Paper presented at the annual conference of the Vision Science Society, St. Pete’s Beach, FL.

Wong-Kee-You, A.M.B., & Adler, S.A. (May, 2018). Is Spatial Attention-Modulated Surround Suppression Observed Across Development? Paper presented at the annual Vision Science Society Conference, St. Pete’s Beach, FL.

Comishen, K.J., & Adler, S.A. (2018, July). The Development of Infants' Expectations for Event Timing. Paper presented at the 21st International Congress of Infant Studies, Philadelphia, PA.

Comishen, K.J., Wong-Kee-You, A.M., Chubb, C., & Adler, S.A. (2018, July). Bimodal Distribution of Performance in Discriminating Major/Minor Modes in 6-Month-Old Infants. Paper presented at the 21st International Congress of Infant Studies, Philadelphia, PA.

Adler, S.A., Comishen, K.J., & Wong-Kee-You, A.M.B. (2019, May). Adults’

Selective Attention and Eye Movements as a Function of Birth Experience. Paper

presented at the annual conference of the Vision Science Society, St. Pete’s Beach, FL.

Rahimi, M., & Adler, S.A. (2019, May). Differences in visual search and eye movements

between caesarean-section and vaginally-delivered infants and adults. Paper

presented at the annual conference of the Vision Science Society, St. Pete’s Beach, FL.

Comishen, K.J., Chubb, C., & Adler, S.A. (2019, August). Bimodal Distribution of Performance

in Discriminating Major/Minor Modes in 6-Month-Old Infants. Paper presented at

the meeting of The Society for Music Perception and Cognition. New York, NY.

Chubb, C., Dean, T., Mednicoff, S.D., Ho, J., Waz, S.C., Douthitt, C., Comishen, K.J., & Adler,

S.A. (2019, August). What tone-scramble experiments reveal. Paper presented at the meeting of The Society for Music Perception and Cognition. New York, NY.

Solomon-Harris, L., Adler, S.A., & Stevens, W.D. (2020, March). Caesarean-section birth is

associated with atypical intrinsic functional connectivity of visual regions in adulthood. Paper presented at the meeting of the Cognitive Neuroscience Society. Boston, MA.

Papers (invited)

Haith, M.M., Adler, S.A., & Wass, T. (1996, April). Time factors in infant expectation. Invited

symposium paper presented at the International Conference on Infant Studies,

Providence, RI.

Adler, S.A. (1999, April). Categorization, dissociations, and the function of anticipations in

infants’ visual expectations. Invited symposium paper presented at the meeting of the

Society for Research in Child Development, Albuquerque, NM.

Adler, S.A. (1999, June). Infants’ cognitive expectations and visual orienting at 3 months.

Invited symposium paper presented at the meeting of the American Psychological

Society, Denver, CO.

Adler, S.A. (2000, July). Visual expectations for the discrete timing versus the temporal flow of

event occurrence in young infants. Invited symposium paper presented at the

International Conference on Infant Studies, Brighton, England.

Media Coverage

*Scott Adler, York University - Visual Attention (*April, 2015*)*

The Academic Minute, http://academicminute.org/2015/04/scott-adler-york-university-visual-attention/

*C-Section May Raise Attention Deficit Risk in Neonates* (August 2015)

Medical Research, http://medicalresearch.com/author-interviews/c-section-may-raise-attention-deficit-risk-in-neonates/16555/

*Caesarean Delivery Slows Baby’s Ability to Focus* (August, 2015)

The Times of India, http://timesofindia.indiatimes.com/life-style/health-fitness/health-news/Caesarean-delivery-slows-babys-ability-to-focus/articleshow/48465547.cms

*C-Section Could Impact Baby’s Ability to Focus: York U Study* (August, 2015)

Science Newsline, http://www.sciencenewsline.com/news/2015081214580064.html

*How a C-Section Can Affect Your Baby’s BRAIN Development: Procedure ‘Slows a Newborn’s Ability to Concentrate* (August, 2015)

Daily Mail, http://www.dailymail.co.uk/health/article-3194960/How-C-section-affect-baby-s-BRAIN-development-Procedure-slows-newborn-s-ability-concentrate.html

*Study: C-Sections May Affect Baby’s Ability to Concentrate* (August, 2015)

CBS Atlanta, http://atlanta.cbslocal.com/2015/08/12/study-c-sections-may-affect-babys-ability-to-concentrate/

*C-Section, Spatial Attention: Birthing Procedure May Affect Baby’s Ability to Focus, Says Study* (August, 2015)

Headlines and Global News, http://www.hngn.com/articles/118456/20150812/c-section-spatial-attention-birthing-procedure-affect-babys-ability-focus.htm

*C-Section May Slow Babies Spatial Attention* (August, 2015)

Psych Central, http://psychcentral.com/news/2015/08/12/c-section-may-slow-babies-spatial-attention/90730.html

*Birth Type Linked to Spatial Attention and Ability to Focus, Says Research* (August, 2015)

Parent Herald, http://www.parentherald.com/articles/8902/20150812/birth-type-linked-to-spatial-attention-ability-to-focus-says-research.htm

*C-Section Impact Baby’s Ability to Focus Attention* (August, 2015)

Neuroscience News, http://neurosciencenews.com/attention-focus-babies-c-section-2418/

*C-Section Babies Slower to Focus Their Attention, Says Study* (August, 2015)

The Toronto Star, http://www.thestar.com/life/2015/08/14/c-section-babies-slower-to-focus-their-attention-says-study.html

*Kaiserschnitt Fördert Konzentrationsstörungen Beim Kind* (August, 2015)

Pravda TV, http://www.pravda-tv.com/2015/08/kaiserschnitt-foerdert-konzentrationsstoerungen-beim-kind/

*C-Sections May Affect Babies’ Cognition* (September, 2015)

The Berlin Eye, <http://www.theberlineye.com/news/C-sections-may-affect-babies%27-cognition-3229>

*Babies Exposed To Bilingual Environments Develop Advantages In Attention* (January, 2019)

The Medical News, <https://www.news-medical.net/news/20190130/Babies-exposed-to-bilingual-environments-develop-advantages-in-attention.aspx>

*Babies Who Hear More Than One Language Develop Attention Advantage: Study* (January, 2019)

CTV News, <https://www.ctvnews.ca/sci-tech/babies-who-hear-more-than-one-language-develop-attention-advantage-study-1.4275452>

*Babies Who Hear More Than One Language at Home Develop Attention Advantage: Study* (January, 2019)

Montreal Gazette, <https://montrealgazette.com/pmn/life-pmn/babies-who-hear-more-than-one-language-at-home-develop-attention-advantage-study/wcm/06467064-5a5e-4af4-941d-f70b6e90a441?fbclid=IwAR2zMd2cXFeGmSk1kwy5yuEGArgOjeEFe6SaLJdkdyRvYYelwM7pCbKPxa8>

*Some Infants Can Identify Differences in Musical Tones at Six Months* (June, 2020)

Neuroscience News, <https://neurosciencenews.com/infant-music-tone-16489/amp/>

*Some six-month-old infants can discriminate between major and minor musical notes, study shows* (June, 2020)

The Medical News, <https://www.news-medical.net/news/20200604/Some-six-month-old-infants-can-discriminate-between-major-and-minor-musical-notes-study-shows.aspx>

*Distinguer les Tonalités Majeures et Mineures, Une Capacité Innée? (Distinguishing major and minor tones, an innate ability?*) (July, 2020)

Cerveau & Psycho (Scientific American, French Edition), <https://www.cerveauetpsycho.fr/sd/perception/distinguer-les-tonalites-majeures-et-mineures-une-capacite-innee-19734.php>

*Being Born With a Musical Ear: Study Shows Infants Can Identify Differences in Major and Minor Tones* (August, 2020)

CTV National News, https://www.ctvnews.ca/video?clipId=2002490

**CONTRIBUTIONS TO THE PROFESSION:**

**Invited Lectures:**

Adler, S.A. (1995). The perceptual base of infant long-term memory. Developmental

Psychology Group seminar, Indiana University, Bloomington, IN.

Adler, S.A. (1996). The relation between perceptual and mnemonic processes in infancy.

Developmental Psychology Group seminar, University of Denver, Denver, CO.

Adler, S.A. (1996). Selective integration of perceptual information in infant memory.

Dissertation Award presentation, International Conference on Infant Studies, Providence,

RI.

Adler, S.A. (1996). The interface between perception and memory in infancy. Department of

Psychology seminar, Southern Methodist University, Dallas, TX.

Adler, S.A. (1997). The interface between perception and memory in infancy. Department of

Psychology seminar, Kent State University, Kent, OH.

Adler, S.A. (1997). The interface between perception and memory in infancy. Department of

Psychology seminar, The University at Buffalo-State University of New York, Buffalo,

NY.

Adler, S.A. (1997). What is memory good for? The “when” and “what” of infant visual

expectations. Cognitive Psychology Group seminar, The University at Buffalo-State

University of New York, Buffalo, NY.

Adler, S.A. (1997). The interface between perception and memory in infancy. Department of

Psychology seminar, Dalhousie University, Halifax, Nova Scotia, Canada.

Adler, S.A. (1998). Perception and memory as related processes: Evidence from early in

development. Developmental Psychology Group seminar, Yale University, New Haven,

CT.

Adler, S.A. (1998). Perception and memory as related processes: Evidence from early in

development. Department of Psychology seminar, University of California at San Diego,

La Jolla, CA.

Adler, S.A. (1998). Perception and memory as related processes: Evidence from early in

development. Department of Psychology seminar, Carnegie Mellon University,

Pittsburgh, PA.

Adler, S.A. (1998). Perception and memory as related processes: Evidence from early in

development. Department of Psychology seminar, Stanford University, Stanford, CA.

Adler, S.A. (1998). What is memory good for? The “when” and “what” of infant visual

expectations. Developmental Psychology Group seminar, Stanford University, Stanford,

CA.

Adler, S.A. (1998). Infants’ cognitive expectations and visual orienting. Vision Science Group

seminar, The Salk Institute for Biological Studies, La Jolla, CA.

Adler, S.A. (1999). Memories of the past and expectations for the future: Infants’ processing of

event information. Department of Psychology seminar, Cornell University, Ithaca, NY.

Adler, S.A. (1999). Memories of the past and expectations for the future: Infants’ processing of

event information. Department of Psychology seminar, Brown University, Providence,

RI.

Adler, S.A. (1999). Long-term memory and visual expectations in 3-month-old infants.

Department of Experimental Psychology seminar, University of Bristol, Bristol, England.

Adler, S.A. (1999). Memories of the past and expectations for the future: Infants’ processing of

event information. Department of Psychology seminar, University of Haifa, Haifa, Israel.

Adler, S.A. (2000). Memories of the past and expectations for the future: Infants’ processing of

event information. Department of Psychology seminar, York University, North York,

Ontario, Canada.

Adler, S.A. (2000). Memories of the past and expectations for the future: Infants’ processing of

event information. Department of Psychology seminar, Barnard College, Columbia

University, New York City, NY.

Adler, S.A. (2003). Infants’ eye movement, visual expectations, and other stuff. Department of

Psychology seminar, McMaster University, Hamilton, ON.

Adler, S.A. (2006). The infant does not just live in the “here” and “now”: Expectations and memory for events. Department of Psychology seminar, University of Minnesota, Minneapolis, MN.

Adler, S.A. (2019). Visual attention, eye movements, and experience in infancy. CREATE

“Brain in Action” and Centre for Vision Research seminar, York University, Toronto, ON.

**Manuscript Reviewing:**

Journals

Infant Behavior and Development 1996 - present

Developmental Psychology 1997 - present

Journal of School Psychology 1999

Infancy 1999 - present

Memory 2002

Child Development 2002 - present

Vision Research 2004 - present

Psychological Science 2004

Developmental Psychobiology 2004 - present

Biennial Meeting of the Society for Research in Child Development 2004 - 2005

Journal of Experimental Child Psychology 2007 - present

Biennial Meeting of the International Society for Infant Studies 2009 - 2010

*Guest Editor*, Special Issue of Brain Sciences: Cognition in Infancy 2014

Grant Adjudication

External Reviewer, National Institutes of Health 2013 – 2015

Member, Canadian Institutes of Health Research,

Behavioural Sciences – C review panel 2018

External Reviewer, National Science Foundation 2021

Books

Advances in Infancy Research (Vol. 10) 1996

Advances in Infancy Research (Vol. 12) 1998

Progress in Infancy Research (Vol. 2) 1999

Child Psychology: A Contemporary Viewpoint, 1st Canadian Ed. 2003

Developmental Psychology: Childhood & Adolescence, 2nd Canadian Ed. 2004

**Membership in Professional Organizations**:

Cognitive Development Society

International Society for Infant Studies

Society for Neuroscience

Society for Research in Child Development

Psychonomic Society

Vision Sciences Society

**TEACHING:**

**Undergraduate Teaching:**

Developmental Psychology, Psych 2110

Infancy, Psyc 3520

Seminar in Developmental Psychology, Psyc 4010

**Supervision of Honours Students**

Sabra Inslicht, Search Asymmetries in Infant Memory, Rutgers University, B.A. completed 1994

Tara Chotiner, Sensitivity of Infant Expectations to Temporal Grouping, University of Denver, B.A. completed 1997

Lina Zeilikman, Temporal Decay and Visual Expectations in Infancy, York University, B.A. completed 2002

Sahar Mosadegh, The Effect of Interference on Infants’ Visual Expectations, York University, B.A. completed 2002

Isabelle Bastien, Role of Working Memory in Infants’ Visual Expectations, York University, B.A. completed 2003

Krista Prising, Sensitivity of Infants’ Expectations to Temporal Decay and Interference, York University, B.A. completed 2004

Soohee Jung, Sensitivity of Infants’ Expectations to Temporal Decay and Interference, York University, B.A. completed 2004

Pamela Gallego, The Relation between Long-Term Memory and Expectations in Infancy, York University, B.A. completed 2004

Kala Chockalingam, Infants’ Sensitivity to the Geometric Variability of Faces, York University, B.A. completed 2005

Amy Lichtman, Role of Working Memory in Infants’ Visual Expectations, York University,

B.A. completed 2005

# Sapna Ramanan, The Relation between Long-Term Memory and Expectations in Infancy, York

# University, B.A. completed 2005

Sunira Chaudhri, Infants’ Sensitivity to the Geometric Variability of Faces, York University, B.A. completed 2006

Lindsay Galea, Development of Speed of Processing in Infancy. York University, B.A. completed 2007

Jonathan Lipszyc, Working Memory and Infants’ Visual Expectations. York University, B.A. completed 2007

Jenn Smith, Temporal Decay and Infants’ Visual Expectations. York University, B.A. completed 2009

Jeff Ordon, Development in the Perception of Depth: Infants’ Sensitivity to Lightness Contrast. York University, B.A. completed 2010

Nik Kumar, Infants’ Long-Term Memory for Features and Feature Relations. York University, B.A. completed 2011

Sidra Naseem, Infants’ Search for a Conjunction of Features. York University, B.A. completed 2011

Rachita Saini, Object features, illusory conjunctions and infants’ long-term memory. York University, B.A. completed 2012

Leah Direnfeld, Infant long-term memory for occluded shape contours. York University, B.A. completed 2012

Sepideh Saedi, Infants’ forgetting of partially occluded shapes. York University, B.A.

completed 2013

Ruth Shach, Six-month-olds’ discrimination of tonal sequences. York University, B.A. completed 2013

Alan Yee, Spatial cueing of attention in caesarean section versus vaginally born adults. York University, B.A. complected 2015

Arnold Ganeswaran, Discrimination of tonal sequences in infancy. York University, B.A. complected 2015

Deborah Zahlbstein, Phonemic discrimination by 6-month-old infants as measured in an eye movement task. York University, B.A. complected 2015

Leyla Safar, Development of easy versus hard feature searches from infancy to adolescence. York University, B.A. completed 2016

Matthew Comishen, Birth experience, visual attention, and developmental disabilities across

development. York University, B.A. completed 2019

**Graduate Teaching:**

Perceptual Development, Psyc 6750

Infancy, Psyc 6680

Developing the Visual Brain, Psyc 6635

Topics in Cognitive Development, Psyc 6640

### **Supervision of Graduate Students:**

# Master’s

# Jazmine Orprecio, Effect of variability in face space and orientation on infants’ face perception, completed January 2004.

# Pamela Gallego, Search asymmetries and eye movements in infancy, completed July 2006.

Joanna Rajchel, Object features, illusory conjunctions and infants’ long-term memory, completed August 2010.

Daniella Castellan, Infants’ long-term memory for occluded shape contours, completed April 2011.

Amrit Tung, Sensitivity of infants’ visual expectations to temporal decay, completed August 2011.

Christina Fuda, Top-down versus bottom-up influences on the development of infants’ conjunction search, completed October 2012.

Audrey W.K. You, Anticipatory eye movements, pupil size changes, and long-term memory in infants, completed October 2013.

Mahta Kakvan, Attentional switching in infants exposed to bilingual versus monolingual environments, completed February 2017.

Kyle Comishen, Development of temporal processing and expectations in early infancy,

completed December 2017.

Maryam Rahimi, Differential attentional responding by planned and emergency caesarean-

section versus vaginally delivered infants and adults, completed September 2019.

Ph.D.

Thomas Baker, Development of speed of processing in visual expectations, completed August 2007.

Audrey M.B. Wong-Kee-You, Spatial attention-modulated surround suppression across

development: A psychophysical study, completed September 2018.

**Committee Membership:**

Master’s Yarixa Barillas 2001

Master’s (Dean’s Rep) Aarlene Kahn 2002

Master’s (Supervisor) Jazmine Orprecio 2004

Master’s Jacob Gryn (Comp Sci) 2004

Master’s Tracey Rogers 2004

Master’s Longena Ng 2005

Master’s (Chair) Paula McLaughlin 2006

Master’s (Supervisor) Pamela Gallego 2006

Master’s (Supervisor) Joanna Rajchel 2010

Master’s (Outside Member) Erika Yates (Kinesiology) 2010

Master’s (Supervisor) Daniella Castellan 2011

Master’s (Chair) Leann Presley 2011

Master’s (Outside Member) Brian Nairn (Kinesiology) 2011

Master’s (Supervisor) Amrit Tung 2011

Master’s (Supervisor) Christina Fuda 2012

Master’s (Dean’s Rep) Benjamin Cassidy 2013

Master’s (Supervisor) Audrey Wong Kee You 2013

Master’s (Outside Member) Nicholas Rapp (Biology) 2013

Master’s (Supervisor) Mahta Kakvan 2017

Master’s (Supervisor) Kyle Comishen 2017

Master’s Angela Capani 2019

Master’s (Supervisor) Maryam Rahimi 2019

Minor Area Paper Jean Varghese 2003

Minor Area Paper Alisa Levy 2007

ABC Doctoral Qualifying Project Lily Solomon-Harris 2020

Ph.D Qualifying Exam Antonio Rodriquez-Sanchez (Comp Sci) 2007

Ph.D. Jenny Demark 2004

Ph.D. (Univ. of Toronto) Shauna Kingsnorth 2005

Ph.D. Jean Varghese 2006

Ph.D. (Supervisor) Thomas Baker 2007

Ph.D. Ljiljana Velisavljevic 2008

Ph.D. Lisa Barymi 2010

Ph.D. (Chair) Diana Tajik-Parvinchi 2011

Ph.D. (Supervisor) Audrey Wong-Kee-You 2018

Ph.D. (Chair) Ashley Chung-Fat-Yim 2020

**University Service:**

# Departmental

Member, Psychology Department Graduate Executive Committee 2003-2005, 2010-2019

Member, Psychology Department Executive Committee 2014-2016

Director, Developmental and Cognitive Processes Colloquium Series 2003-2008

Coordinator, Developmental Science Graduate Program 2010-2019

Chair, Developmental Science Faculty Recruitment Committee 2016-2017

Member, Tenure & Promotion Adjudication Committee 2021

Director, Developmental and Cognitive Processes Colloquium Series 2021-

### Faculty

Member and Chair, Faculty of Arts Petitions Committee 2001-2005

Member and Co-Chair, Faculty of Science Committee on Exams

# and Academic Standards 2003-2005

Member, Arts Faculty Council 2004-2006

Member and Chair, Faculty of Health Committee on Exams and

Academic Standards 2006-2009

### Member and Chair, Faculty of Graduate Studies Admissions Committee 2006-2008

### Chair, Faculty of Health Sub-Committee for Academic Honest Hearing Panels 2006-2012, 2015-2017

Member and Chair, Faculty of Health Petitions Committee 2013-2016

Member and Chair, Faculty of Graduate Studies Appeals and Academic Honesty

Committee 2017-2019

### University

Member, York Ad-Hoc Research Committee 2003-2005

Member, Senate Appeals Committee 2008-2011

Member, Senate 2009-2010