

## CURRICULUM VITAE

### Dima Amso

Sackler Institute for Developmental Psychobiology  
 WMC Cornell University  
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### APPOINTMENTS

- 2005-present Assistant Professor, Department of Psychiatry, Neurology & Neuroscience,  
 Weill Cornell Medical College (WCMC), Cornell University
- 2006-present Faculty, IMAGINE: Ithaca Manhattan Graduate Initiative in Neuroscience  
 2007 Adjunct Instructor, New York University

### EDUCATION

- 2005 Ph.D. in Psychology; New York University, New York, NY
- 2002 Summer Institute on the Biology of Developmental Disorders;  
 Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 1999 B.S. in Psychology, *magna cum laude*; Tufts University, Medford, MA

### RESEARCH INTERESTS

Learning, Selective Attention, Multiple Memory Systems, Oculomotor Development, Cognitive Control, Object Perception, Brain Development, Constructivist Approaches

### PROFESSIONAL SERVICE

- 2008 Neuroscience and Child Development Panel Reviewer, Society for Research in Child Development, April, 2009
- 2007 Biological Processes Panel Reviewer, International Conference on Infant Studies, March, 2008
- 2007 Co-Director, John Merck Fund Summer Institute on the Biology of Developmental Disabilities; Cornell University, Ithaca, NY.

### **Ad Hoc Reviewer:**

- *British Journal of Developmental Psychology*
- *Child Development*
- *Cognition*
- *Developmental Science*
- *Developmental Psychology*
- *Infancy*
- *Journal of Experimental Child Psychology*
- *Journal of Cognitive Neuroscience*

### TEACHING EXPERIENCE

- 2005-2009 Neuron to Brain, Learning & Memory Lecture, WCMC Cornell  
 2006-2009 Brain & Mind, Attention Lab, WMC Cornell  
 2007 Statistics for the Behavioral Sciences, Sackler Institute, WCMC Cornell  
 2007 Lab in Developmental Psychology, New York University  
 2004 Perception, New York University (*Graduate Instructor*)  
 2002-2003 Social Psychology, Cornell University (*Graduate Instructor*)

### GRANTS, AWARDS, & FELLOWSHIPS

- 2008-2013 NIMH grant 1K01MH077993-01A2 (Amso)  
 “Development of Neural Systems Underlying Learning and Response to Novelty” \$ 693,802  
 2004 Martin Braine Fellowship in Cognition and Cognitive Development, NYU  
 2003-2004 MacCracken Graduate Research Fellowship, NYU  
 2003 Sackler Biomedical Fellowship, Weill Medical College of Cornell University  
 2002 Merck Fellowship, Biology of Developmental Disorders, Cold Spring Harbor Labs  
 2001-2003 Sage Graduate Research Fellowship, Cornell University  
 1999 Priscilla M. Dunne Memorial Prize Scholarship in Psychology, Tufts University  
 1998 Gibran Kahlil Gibran Memorial Scholarship

### PUBLICATIONS

- Amso, D., Fitzgerald, M., Davidow, J.Y., Gilhooly, T., & Tottenham, N. (under review). Visual exploration strategies and the development of infants’ facial emotion discrimination.
- Amso, D. (in press). The Developmental Process: Evidence from an Integrating Science. To appear in *Developmental Psychology*. Nova Science Publishers.
- Soliman, F., Glatt, C. E., Levita, L., Bath, K. G., Jones, R. M., Pattwell, S. S., Tottenham, N., Amso, D., Somerville, L., Voss, H. U., Glover, G., Ballon, D. J., Lee, F. S., & Casey, B. J. (in press). Genetic Variant BDNF (Val66Met) Polymorphism Alters Learning in Mouse and Human. *Science*.
- Amso, D. (2009). A cohesive developmental social neuroscience: research, methods, and integration. [Review of the book *Handbook of Developmental Social Neuroscience*]. *PsycCritiques-Contemporary Psychology: APA Review of Books*, 54 (No. 40), Article 3.
- Amso, D. (2009). Perceptual development: Attention. In B. Goldstein (Ed.). *Encyclopedia of*

*Perception*. SAGE Publications, Inc.

- Amso, D. & Johnson, S.P. (2009). Building object knowledge from perceptual input. In B.M. Hood & L. Santos (Eds.). *The origins of object knowledge*. OUP.
- Casey, B.J., Glatt, C., Tottenham, N., Soliman, F., Bath, K., Amso, D., Altemus, M., Pattwell, S., Jones, R., Levita, L., Mezey, J., Clark, A., Gunnar, M., Thomas, K., Hempstead, B., McEwen, B., & Lee, F.S. (2009). Brain-derived neurotrophic factor as a Model System for examining Gene by Environment Interactions across Development. *Neuroscience*, *164*, 108-120.
- Amso, D. & Casey, B.J. (2008). The development of cognitive control. In L. Squire (Ed.), *The Encyclopedia of Neuroscience*. San Diego, Elsevier.
- Amso, D. & Johnson, S.P. (2008). Development of visual selection in 3- to 9-month-old infants: Evidence from saccades to previously ignored locations. *Infancy*, *13*(6), 675-686.
- Diamond, A., & Amso, D. (2008). Contributions of neuroscience to our understanding of cognitive development. *Current Directions in Psychological Science*, *17*(2), 136-141.
- Johnson, S. P., Amso, D., Frank, M. C., & Shuwairi, S. M. (2008). Perceptual development in infancy as the foundation of event perception. In T. F. Shipley & J. Zacks (Eds.), *Understanding events: From perception to action*. New York: Oxford University Press.
- Shapiro, T., & Amso, D., (2008). School age development. In A. Tasman, J. Kay, J.A. Lieberman, M.B. First, & M. Maj (Eds.). *Psychiatry, 3rd Edition, Volume 1*. John Wiley & Sons.
- Schlesinger, M., Amso, D., & Johnson, S.P. (2007a). The neural basis for visual selective attention in young infants: A computational account. *Adaptive Behavior*, *15*, 135-148.
- Schlesinger, M., Amso, D., & Johnson, S.P. (2007b). Simulating infants' gaze patterns during the development of perceptual completion. In L. Berthouze, C.G. Prince, M. Littman, H. Kozima, & C. Balkenius (Eds.), *Proceedings of the Seventh International Workshop on Epigenetic Robotics: Modeling Cognitive Development in Robotic Systems*. Sweden: Lund University Cognitive Studies.
- Amso, D., & Johnson, S.P. (2006). Learning by selection: Visual search and object perception in

- young infants. *Developmental Psychology*, 42(6), 1236-45.
- Amso, D., & Casey, B.J. (2006). Beyond *what* develops *when*: Neuroimaging may inform *how* cognition changes with development. *Current Directions in Psychological Science*, 15(1), 24-29.
- Amso, D., & Johnson, S.P. (2006). Visual selection and object perception. In *Proceedings of The Fifth International Conference on Development & Learning*. IEEE.
- Casey, B. J., Amso, D., & Davidson, M. C. (2006). Learning about learning and development with modern imaging technology. In Yuko Munakata & Mark H. Johnson (Eds.), *Processes of Change in Brain and Cognitive Development, Attention & Performance XXI*. Oxford University Press.
- Davidson, M., Amso, D., Cruess, L., & Diamond, A. (2006). Development of cognitive control and executive functions from 4-13 Years: Evidence from manipulations of memory, inhibition, and task switching. *Neuropsychologia*, 44(11), 2037-2078.
- Amso, D. & Johnson, S. P. (2005). Selection and inhibition in infancy: Evidence from the spatial negative priming paradigm. *Cognition*, 95, 2, B27-B36.
- Amso, D., Davidson, M. C., Johnson, S. P., Casey, B. J. (2005). The contributions of the hippocampus and the striatum to simple association and frequency-based learning. *NeuroImage*, 27, 219-298.
- Johnson, S. P., Hannon, E., Amso, D. (2005). Perceptual Development. In *The Cambridge Encyclopedia of Child Development*, Brian Hopkins (Ed.). Cambridge: Cambridge University Press.
- Johnson, S. P., Slemmer, J. A., & Amso, D. (2004). Where infants look determines how they see: Eye movements and object perception performance in 3-month-olds. *Infancy*, 6(2), 185-201.
- Johnson, S. P., Amso, D., Slemmer, J. A. (2003). Development of object concepts in infancy: Evidence for early learning in an eye tracking paradigm. *Proceedings of the National Academy of Sciences (USA)*, 100(18), 10568-10573.
- Diamond, A., Kirkham, N., & Amso, D. (2002). Conditions under which young children CAN

hold two rules in mind and inhibit a prepotent response. *Developmental Psychology*, 38(3), 352-362.

### CONFERENCE PRESENTATIONS

- Amso, D. & Tottenham, N. *Targeted Visual Exploration of Fearful But Not Happy Faces Supports Emotion Discrimination*. To be presented at the International Conference on Infant Studies, Baltimore, MD, 2010.
- Emberson, L., & Amso, D. *Perceptual Learning of Complex Objects: Mechanisms of integration across multiple views of a novel object in cluttered scenes*. Submitted to the Cognitive Neuroscience Society Meeting,
- Kramer, B., & Amso, D. *The role of maintenance in learning to associate temporally discontinuous items: A developmental investigation*. Submitted to the Cognitive Neuroscience Society Meeting, Montreal, Canada, 2010.
- Davidow, J. Y. & Amso, D. *Learning two parameters acting on one item: Evidence from response to novelty in an eye tracking paradigm*. International Conference on Infant Studies, Vancouver, BC, March 2008.
- Fitzgerald, M., Tottenham, N., Davidow, J., Gilhooly, T., & Amso, D. *The development of emotion expression discrimination in infants: Evidence from infant scan patterns*. International Conference on Infant Studies, Vancouver, BC, March 2008.
- Amso, D., Soliman, F., Davidow, J., Hare, T., Getz, S., Millner, A., Bath, K., & Casey, B.J. (May, 2007). *Impact of Brain Derived Neurotrophic Factor Val66Met polymorphism on hippocampal and striatal learning: Evidence from fMRI*. Cognitive Neuroscience Society, New York.
- Amso, D., Davidson, M. C., Galvan, A., Glover, G., & Casey, B. J. (2005, April). *The role of the hippocampus and striatum in frequency and association-based learning: A developmental fMRI study*. Cognitive Neuroscience Society, New York.
- Amso, D. & Johnson, S. P. (2005, April). *Insights into inhibitory development: Evidence from spatial negative priming in infants*. Society for Research in Child Development (SRCD), Atlanta.
- Amso, D., Slemmer, J. A., & Johnson, S. P. (2004, May). *Visual selection and object perception: How do infants know where to look?* International Conference on Infant

Studies, Chicago, IL.

- Amso, D., Davidson, M. C., Johnson, S. P., Glover, G., & Casey, B. J. (2004, April). *The contributions of striatal and hippocampal activity to learning of novel events and novel associations*. Cognitive Neuroscience Society, San Francisco, CA.
- Johnson, S. P., Amso, D., & Slemmer, J. A. (2004, April). *Where infants look determines how they see: Eye movements and development of object perception*. Vision Sciences Society conference, Sarasota, FL.
- Amso, D., & Johnson, S. P. (2003, May). *Using eye movements as a measure of selective attention: Evidence from a spatial negative priming paradigm*. Vision Sciences Society, Sarasota, FL.
- Johnson, S. P., Amso, D., & Slemmer, J. A. (2003, May). *Development of object concepts in infancy*. Vision Sciences Society conference, Sarasota, FL.
- Amso, D., & Johnson, S. P. (2003, April). *Negative priming in infancy: Implications for the development of visual attention*. Society for Research in Child Development, Tampa, FL.
- Amso, D., Slemmer, J. A., & Johnson, S. P. (2002, May). *Visual attention mechanisms are sensitive to manner of occlusion*. Vision Sciences Society, Sarasota, FL.
- Amso, D., Gehlbach, L. N., & Diamond, A. (2001, May). *What underlies negative priming? Contributions of memory to the negative priming effect*. South Carolina Bicentennial Symposium on Attention, Columbia, SC.
- Diamond, A., Davidson, M. C., Cruess, L., Badali, S., Amso, D., & Oross, S. (1999, October). *Long-lasting selective visual deficits from short-term exposure to high neonatal phenylalanine levels in humans*. Society for Neuroscience, Miami Beach, FL.

### **SELECTED TALKS & ADDRESSES**

- Symposium Chair: “Emergent Complexity: A cross domain approach to infant learning.” To be presented at the International Conference on Infant Studies, Baltimore, MD, 2010.
- Columbia University: *Little Mechanisms, Big World*. 2009.
- Symposium on “The Role of Action in the Development of Object Perception”. Cognitive Development Society, San Antonio, TX: The role of oculomotor development on object perception, 2009.

- Symposium on “Paying Attention to Attention in Language Learning and Development”. Society for Research in Child Development, Denver, CO: *The interaction of learning and maintenance systems over development*, 2009.
- Brown University: *Mechanisms of information acquisition: A developmental account*, 2009.
- Research Symposium. “Sensory Integration & Perception: Impact on Function and Development”. The Tenth Annual Research Symposium, R2K, Long Beach, CA: *Mechanisms of visual exploration: A developmental account*, 2009.
- Weill Cornell Program in Neuroscience Retreat: *Mechanisms of visual exploration: A developmental account*, 2008.
- Symposium on “Methods in developmental cognitive neuroscience: the state of the art”. International Conference on Infant Studies, Vancouver, BC: *Functional Magnetic Resonance Imaging & Diffusion Tensor Imaging: Applications and promise for developmental research*, 2008.
- Rutgers, Newark: *Mechanisms of information acquisition: A developmental account*, 2007.
- Symposium on “BDNF, learning and development”. 22<sup>nd</sup> Annual Winter Conference, Current Issues in Developmental Psychobiology, Costa Rica: *Human imaging studies of BDNF, learning and development*, 2007.
- Rockefeller University: *Methods in infancy research*, 2007.
- Symposium on “Toward a constructivist account of perceptual completion”, International Conference on Development and Learning, Bloomington, IN: *Visual selection and object perception*, 2006.
- WMC, Cornell University: *Development of visual selection*, 2005.
- UMASS at Amherst: *Development of visual selection*, 2005.
- Harvard University: *Development of visual selection*, 2005.
- University of Denver: *Development of visual selection*, 2005.
- University of California at Berkeley: *Development of visual selection*, 2005.
- Symposium on “Object knowledge”. Yale University, New Haven: *Building object knowledge from perceptual input*, 2005.