DIMA AMSO Ph.D.

Curriculum Vitae

Professor
Department of Psychology
Columbia University
da2959@Columbia.edu

EMPLOYMENT

2020-	Professor, Psychology Columbia University
2015-2020	Associate Professor *with tenure* Department of Cognitive, Linguistic, & Psychological Sciences
2010 – 2015	Assistant Professor Department of Cognitive, Linguistic, & Psychological Sciences Brown University Providence, RI
2005-2010	Assistant Professor of Psychology in Psychiatry Sackler Institute for Developmental Psychobiology Weill Cornell Medical College, NY, NY

EDUCATION

2005	New York University, NY, NY PhD in Psychology Dissertation Title*:* Visual Selective Attention in Infancy
1999	Tufts University, Medford, MA BS in Psychology *magna cum laude*

RESEARCH AREA

Brain and Cognitive Development in Infancy and Childhood
Development of Visual Attention and Learning/Memory Interactions
Environmental Shaping of The Development of Executive Functions

RESEARCH FUNDING

Current Support

National Science Foundation (PI Amso)
NSF # 1844476
The Impact of SES on WM in Naturalistic Versus Structured Settings
2020-2023 ($442,903)

Wellcome Trust Leap Program (Amso, Co-PI, Consortium PI Donald)
A Multiscale Approach to Characterizing Developing Executive Functions
2021-2024 (CU total $1,932,662)

Provost's Grants Program For Mid-Career Faculty Who Contribute to the Diversity Goals of the University (PI Amso)
Building a Collaborative Science and Community Outreach Infrastructure.
2021-2024 ($37,000)

National Institute of Health (Amso Co-PI, Consortium PI D'SA)
HEAL Initiative: HEALthy Brain and Child Development Study
Assessing the cumulative risk of early life substance and environmental exposure on child neurodevelopment and health
2021-2026 (CU total $2,336,367)

National Institute of Child and Human Development (DA Co-Mentor, PI Rosen)
K99 HD099203
The neurodevelopmental mechanisms linking environmental experience and executive function
2020-2025

Pending Support
National Institute of Health (Project PI, Amso, Consortium PIs Chung & Veenstra-VanderWeele)
P50 Columbia University Autism Center of Excellence (CU-ACE)
2022-2027 ($12,311,961)

Completed Support
National Institute of Drug Abuse (PIs Amso, Buka, Deoni, D'Sa)
R34 The Cumulative Risk of Substance Exposure and Early Life Adversity on Child Health Development and Outcomes 2019-2021

Carney Institute Innovation Award (PIs Amso, Shenhav)
A circuit-level examination of incentive shaping mechanisms underlying the socioeconomically driven achievement gap
2019-2021

National Institute of Mental Health (PIs Amso, Serre)
R21 MH113870
SmartPlayroom Technology: Naturalistic Data Collection in Young Children

James S. McDonnell Scholar Award in Understanding Human Cognition (PI Amso)
Emergent complexity in human development: Evidence from process-oriented investigations of attention and memory
2011-2019

National Institute of Mental Health (PIs Amso, Badre)
NIMH R01-MH099078
Role of Experience in the Development of Cognitive Control and Frontal Cortex
2012-2017

National Institute of General Medical Sciences (Project PI Amso)
P20GM103645 Center of Biomedical Research Excellence
Development of vision and selective attention in typical and ASD individuals
2013-2016
$1,505,769

National Institute for Mental Health (PI Amso)
NIMH K01MH077993
Development of Neural Systems Underlying Learning and Response to Novelty
2007-2012
$809,958

Simons Foundation Autism Research Initiative (PIs Amso, Sheinkopf)
Biomarkers of Emotion Regulation, Social Response & Social Attention in ASD
2015-2017

Hassenfeld Child Health Innovation Award (PIs Amso, Bath)
Neural Mechanisms by Which Socioeconomic Status Shapes Brain Development
2017-2018

Norman Prince Neuroscience Institute New Frontiers Fund (PIs Amso, Tyrka)
Developmental Response to Severe Early Stress: Neural Mechanisms of Cognitive and Behavioral Effects
2014-2015

Awarded Student Grants (Amso mentees)
Monique Gilmore, BA candidate Agnes Scott College, (summer supervisor, Amso)
2021, STEM Scholars Program

Cassandra T-Pederson, BS candidate, CLPS (supervisor Amso)
2019, Undergraduate Training and Research Award

Andrew Lynn, PhD candidate CLPS (supervisor Amso)
2018, Center for Vision Research Pilot Award

Denise Werchan, PhD candidate CLPS (supervisor Amso)
2018-2019 Robin Chemers Neustein Graduate Research Fund Award in Brain Science

Kristen Tummeltshammer, PI (sponsor Amso)
2016-2019, NIH Ruth Kirschstein F32 NRSA

Andrew Lynn, PhD candidate CLPS (supervisor Amso)
2015-2018, National Science Foundation Graduate Research Fellowship

Denise Werchan, PhD candidate CLPS (supervisor Amso)
2013-2016, National Science Foundation Graduate Research Fellowship

Elena Tenenbaum, Postdoctoral candidate, CLPS (co-supervisor Amso)
2012-2014, Autism Speaks Translational Postdoctoral Fellowship

Rachel Martino, BS candidate, CLPS (supervisor Amso)
2017, Undergraduate Training and Research Award

Benjamin Silver, BS candidate, CLPS (supervisor Amso)
2016, Undergraduate Training and Research Award

Kate Nussenbaum, BS candidate, CLPS (supervisor Amso)
2014, Undergraduate Training and Research Award and Solsbery Undergraduate Fellowship

PUBLICATIONS

* Denotes trainee first authors. Last author is senior author. By convention in my field, the first author tends to be the lead student/post-doc or primary contributor, the last author tends to be the faculty principle investigator, and others are listed in order of their contribution to the research.

journal articles in submission/review/revision

1. *Bianco, C.A….& **Amso, D.** (*in review*). A pandemic beyond the virus: maternal stress, not COVID-19 Infection, is associated with Infant Temperament. *Pediatric Research.*

2. *Lynn, A., Bruchhage, M., Deoni, S., & **Amso, D.** (*in revision).* Characterizing developmental trajectories of dorsal-ventral visual pathway integration across childhood. *Cerebral Cortex Communications.*

3. *Tummeltshammer, K., & **Amso, D.** (*in review*). Infants use contextual memory to attend and learn in naturalistic scenes. *Infancy.*

published journal articles

4. Shuffrey et al. (2022). Birth during the COVID-19 pandemic, but not maternal SARS-CoV-2 infection during pregnancy, is associated with lower neurodevelopmental scores at 6-months. *JAMA Pediatrics.* doi:10.1001/jamapediatrics.2021.5563

5. Gradzinsky, R., **Amso, D.** et al. Pre-symptomatic intervention for Autism Spectrum Disorder (ASD): Defining a research agenda (2021). *Journal of Neurodevelopmental Disorders.* DOI: 10.1186/s11689-021-09393-y

6. Lynn, A, **Amso, D.** *(*2021). Attention emerges from hierarchically embedded neural computations: Evidence from psychology, neuroscience, and development. *WIREs Cognitive Science.* https://doi.org/10.1002/wcs.1575

7. Markant, J. & **Amso, D**. (2021). Developmental tradeoffs between stability and flexibility in executive attention. *WIREs Cognitive Science.* https://doi.org/10.1002/wcs.1577

8. *Nketia, J., **Amso, D.,** & Brito (2021). Towards a more inclusive and equitable developmental cognitive neuroscience. *Developmental Cognitive Neuroscience.* doi.org/10.1016/j.dcn.2021.101014

9. **Amso, D**. Govindarajan, L.N., Baumgartner, H., Lynn, A., Gunther, K., Placido, D., Sharma, T., Veerabadran, V., Gupta, P., Thakkar, K., Seungchan, K., & Serre, T. (2021). Discovering mechanisms of memory-guided attention using computer vision. *psycRxiv*

10. **Amso, D.** & Kirkham, N. (2021) A multiple memory systems framework for examining attention and memory interactions in infancy. *Child Development Perspectives,15(2).* DOI:10.1111/cdep.12410

11. Donato, F., Alberini, C.M., **Amso, D**., Dragoi, G., Dranovsky, A., & Newcombe, N. (2021). The ontogeny of hippocampal memories. *Journal of Neuroscience, 41*(5), 920-926. DOI: 10.1523/JNEUROSCI.1651-20.2020

12. *Werchan, D., & **Amso, D.** (2021). All contexts are not created equal: Social stimuli win the competition for organizing reinforcement learning in 9-month-old infants. *Developmental Science.* https://doi.org/10.1111/desc.13088

13. **Amso D.** (2020). Neighborhood Poverty and Brain Development: Adaptation or Maturation, Fixed or Reversible? *JAMA Network Open,3*(11), e2024139.

14. Morris, A.S., Krogh-Jesperson, S., Johnson, S., **Amso, D.,** Coles, C., Fox, N., Lorenzo, N., Perlman, S., Planalp, B., Shuffrey, L., Smith, B., Wakschlag, L. (2020). Principles for guiding the selection of early childhood neurodevelopmental risk and resilience measures: HEALthy brain and child development (HBCD) study as an exemplar. *Adversity and Resilience Science,*1*,* 247-267.

15. *Freier, L. Gupta, P., Badre, D., & **Amso, D.** (2020). 3- to 7-year-olds' use of working memory gating strategies in a naturalistic task. *Developmental Science, 24(*1) e13017. https://doi.org/10.1111/desc.13017.

16. *Lynn, A., Festa, E., Heindel, W., & **Amso, D**. (2020). What underlies visual selective attention development? Evidence that age-related improvements in visual feature integration influence visual selective attention performance. *Journal of Experimental Child Psychology, 191,* 104732. doi.org/10.1016/j.jecp.2019.104732

17. *Werchan, D., & **Amso, D.** (2020). Adults just don't understand: the A-not-B error. reflects adaptive learning not perseveration. *Developmental Psychobiology, 62 (*8), 1021-1034. *https://doi.org/10.1002/dev.21999*

18. *Werchan, D., & **Amso, D**. (2020). Top-down knowledge rapidly acquired through PFC dependent rule learning biases visual attention in 9-month old infants. *Developmental Cognitive Neuroscience, 42, 100761.*

19. Brito, N. Samuelson, L., **Amso, D.,** Colombo, J., Richards, J., Fifer, W., Barr, R., Bell, M.A., Calkins, Montgomery-Downs, H., Oakes, L., Flynn, A. (2019). Beyond the Bayley: neurocognitive assessments of development during infancy and toddlerhood. *Developmental Neuropsychology*, *44*(2). 220-247. doi.org/10.1080/87565641.2018.1564310

20. *Rosen, M., **Amso, D**., McLaughlin, K. (2019). A novel model of neurodevelopmental mechanisms linking environmental experience and executive function. *Developmental Cognitive Neuroscience, 39.* 1-13. doi.org/10.1016/j.dcn.2019.100699

21. *Tummeltshammer, K. S., Feldman, E.H.S., & **Amso, D.** (2019). Pupil dilation, eye-blink rate, and the value of mother establish the origins of reward learning in infancy. *Developmental Cognitive Neuroscience, 36,* 1-10. doi: 10.1016/j.dcn.2018.12.006

22. *Werchan, D., Lynn, A., Kirkham, N.K., & **Amso, D**. (2019). Object-based attention in infancy: A role for family socioeconomic status and competing visual features. *Infancy, 24*(5), 752-767. doi.org/10.1111/infa.12309

23. **Amso, D**., Salhi, C., & Badre, D. (2018). The relationship between cognitive enrichment and cognitive control: a systematic investigation of competing influences on development through socioeconomic status. *Developmental Psychobiology, 61*(2). 159-178. doi: 10.1002/dev.2179

24. *Righi, G., Tenenbaum, E., McCormick, C., **Amso, D.,** & Sheinkopf, S. (2018). Sensitivity to audio-visual synchrony and its relation to language abilities in children with ASD. *Autism Research, 11*(4). 645-653. doi: 10.1002/aur.1918

25. *Werchan, D., Baumgartner, H., Lewkowicz, D., & **Amso, D.** (2018). Origins of dynamic cortical organization in infancy. *Developmental Cognitive Neuroscience, 34.* 75-81. doi:10.1016/j.dcn.2018.07.002

26. **Amso, D.,** & *Lynn, A. (2017). Distinctive mechanisms of adversity and socioeconomic inequality in child development: A review and recommendations for evidence-based policy. *Policy Insights from the Behavioral and Brain Sciences*, 1-8. doi: 10.1177/2372732217721933

27. *Nussenbaum, K. Markant, J., & **Amso, D**. (2017). When increasing distraction helps learning: Distractor number and content interact in their effects on memory. *Attention, Perception, & Psychophysics, 79*(8), 2606-2619. doi: 10.3758/s13414-017-1399-1.

28. *Tenenbaum, E., **Amso, D**., Righi, G., & Sheinkopf, S. (2017). Attempting to increase intake from the input: Attention and word learning in children with Autism. Learning in Children with Autism. *Journal of Autism and Developmental Disorders, 47(6),* 1791-1805.

21. *Tummeltshammer, K., & **Amso, D**. (2017). Top-down contextual knowledge guides visual attention in 6- and 10-month-old infants. *Developmental Science, 21*(4). doi: 10.1111/desc.12599

29. *Werchan, D., & **Amso, D.** (2017). A novel ecological account of prefrontal cortex development, *Psychological Review, 124*(6), 720-739. doi:10.1037/rev0000078

30. *Haas, S., **Amso, D.,** & Fox, N. (2016). The effects of emotion priming on visual search in socially anxious adults. *Cognition and Emotion, 31*(5), 1041-1054. doi: 10.1080/02699931.2016.1180281

31. *Markant, J. & **Amso, D.** (2016). The development of selective attention orienting is an agent of change in learning and memory efficacy. *Infancy. 21(2),* 154-76.

32. *Nussenbaum, K. & **Amso, D.** (2016). An attentional goldilocks effect: evidence An optimal amount of social interactivity promotes word learning from video. *Journal of Cognitive Development. 17(1),* 30-40. doi.org/10.1080/15248372.2015.1034316

33. Tandon, P., Tovar, A., Jayasuriya, A., Welker, E., Schober, D., Copeland, K., Dev, D., May-Murriel, A., **Amso, D.,** & Ward, D. (2016). The relationship between physical activity and diet and young children's cognitive development: A systematic review. *Preventative Medicine Reports,* 3, 379-390.

34. *Tummeltshammer, K., **Amso, D.,** French, R., & Kirkham, N. (2016). Across space and time: Infants learn from backward and forward visual statistics. *Developmental Science, 20(5).* doi: 10.1111/desc.12474

35. *Unger, K., Ackerman, L., Chatham, C.H., **Amso, D.,** & Badre, D., (2016). Working memory gating mechanisms explain developmental change in rule-guided behavior. *Cognition, 155,* 8-22. doi: 10.1016/j.cognition.2016.05.020

36. *Werchan, D., Collins, A., Frank, M., & **Amso, D.** (2016). Role of Prefrontal Cortex in Learning and Generalizing Hierarchical Rules in 8-Month-Old Infants. *Journal of Neuroscience, 5*, 36(40):10314-10322. doi: 10.1523/JNEUROSCI.1351-16.2016

37. **Amso, D.** & Scerif G. (2015). The attentive brain: insights from developmental cognitive neuroscience. *Nature Reviews Neuroscience, 16,* 606-19. doi: 10.1038/nrn4025.

38. *Markant. J., Ackerman, L.K., Nussenbaum, K., & **Amso, D.** (2015). Selective attention neutralizes the adverse effects of socioeconomic status on memory in 9 month-old infants. *Developmental Cognitive Neuroscience, 18.* 26-33. doi: 10.1016/j.dcn.2015.10.009.

39. *Markant, J., Oakes, L., & **Amso, D**. (2015). An attentional not racial bias underlies the other-race effect in infancy. *Developmental Psychobiology.* 58(3), 355-65. doi: 10.1002/dev.21375

40. *Markant, J., Worden, M., & **Amso, D**. (2015). Not all attention orienting is created equal: Recognition memory is enhanced when attention orienting involves distractor suppression. *Neurobiology of Learning & Memory, 20,* 28-40. doi: 10.1016/j.nlm.2015.02.006

41. *Werchan, D., Collins, A., Frank, M.J., & **Amso, D**. (2015). Eight-month-old infants spontaneously learn and generalize hierarchical rules. *Psychological Science, 26(6), 805-15.* doi: 10.1177/0956797615571442

42. **Amso, D.,** Haas, S., McShane, L., & Badre, D. (2014). Working memory updating and the development of rule-guided behavior. *Cognition, 133*(1), 201-10.

43. **Amso, D.,** Haas, S., Tenenbaum, E., Markant, J., & Sheinkopf, S. (2014). Bottom-up attention orienting in young children with autism. *Journal of Autism & Developmental Disorders, 44*(3), 664-73.

44. **Amso, D.,** Markant, J., & Haas, S. (2014). An eye tracking investigation of developmental change in bottom-up attention orienting to faces in cluttered natural scenes. *PLOS ONE*, *9*(1), e85701.

45. Frank, M.C., **Amso, D.,** & Johnson, S.P. (2014). Visual search and attention to faces. *Journal of Experimental Child Psychology, 118*, 13-26.

46. *Markant, J. & **Amso, D**. (2014). Leveling the playing field: Attention mitigates the effects of IQ on memory. *Cognition, 131*(2), 195-204.

47. Schlesinger, M., Johnson, S., & **Amso, D**. (2014). Prediction-learning in infants as a mechanism for gaze control during object exploration. *Frontiers in Psychology, 5(*441), 1-12.

48. Schlesinger, M., Johnson, S.J., & **Amso, D.** (2014). Learnability of infants' center-of gaze sequences predicts their habituation and posthabituation looking time. *Proceedings of the Fourth Joint IEEE Conference on Development and Learning and on Epigenetic Robotics*, 275-280. doi: 10.1109/DEVLRN.2014.6982993

49. *Tenenbaum, E., **Amso, D**., Abar, B., & Sheinkopf, S. (2014). Attention and word learning in autistic, language delayed and typically developing children. *Frontiers in Psychology, 5(4*90) 1-9.

50. Blumstein, S. & **Amso, D**. (2013). Neural plasticity and dynamic functional organization: Insights from Functional Neuroimaging. *Perspectives on Psychological Science*, *8*(1), 44-48.

51. Hedges, J.H., Adolph, K.E.A., **Amso, D**., Bavelier, D., Fiez, J., et al. (2013). Play, attention, and learning: How do play and timing shape the development of attention and influence classroom learning? *Annals of the New York Academy of Sciences,* 1292, 1-20.

52. *Markant, J. & **Amso, D**. (2013). Selective memories: Infants' encoding is enhanced in selection via suppression. *Developmental Science, 16*(6), 926-40.

53. Schlesinger, M. & **Amso, D**. (2013). Image free-viewing as intrinsically-motivated exploration: Estimating the learnability of center-of-gaze image sequences in infants and adults. *Frontiers in Psychology, 4*(802) 1-12.

54. **Amso, D**. & Davidow, J. (2012). The development of implicit learning from infancy to adulthood: Item relations, salience, & cognitive flexibility. *Developmental Psychobiology, 54*(6),664-73.

55. Bath, K.G., Chuang, J., Spencer-Segal, J.L., **Amso, D**., Altemus, M., McEwen, B.S., & Lee, F.S. (2012). Variant BDNF (Val66Met) polymorphism contributes to developmental and estrous-stage-specific expression of anxiety-like behavior in female mice. *Biological Psychiatry, 72*(6), 449-504.

56. *Emberson, L. & **Amso, D.** (2012). Learning to sample: Eye tracking and fMRI indices of online changes in object perception. *Journal of Cognitive Neuroscience, 10,* 2030-42.

57. Schlesinger, M., **Amso, D.,** & Johnson. S.P. (2012). Simulating the role of visual selective attention during the development of perceptual completion. *Developmental Science, 15,* 739-752.

58. Schlesinger, M., **Amso, D.,** Johnson, S.P., Hantehzadeh, N., & Gupta, L. (2012). Using the iCub simulator to study perceptual development: A case study. *Proceedings of the Second Joint IEEE Conference on Development and Learning and on Epigenetic Robotics*, 1,6, 7-9. IEEE, NY, NY.

59. Schlesinger, M., **Amso, D.,** & Johnson. S.P. (2011). Increasing spatial competition enhances visual prediction learning. *Proceedings of the First Joint IEEE Conference on Development and Learning and on Epigenetic Robotics, 2*(1). doi: 10.1109/DEVLRN.2011.6037379

60. **Amso, D.,** Fitzgerald, M.,Davidow, J.Y., Gilhooly, T., & Tottenham, N. (2010). Visual exploration strategies and the development of infants' facial emotion discrimination. *Frontiers in Developmental Psychology*, *1*, 180.

61. 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. (2010). Genetic Variant BDNF (Val66Met) Polymorphism Alters Learning in Mouse and Human, *Science, 13*(1), 46-61.

62. 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.

63. **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.

64. Diamond, A., & **Amso, D**. (2008). Contributions of neuroscience to our understanding of cognitive development. *Current Directions in Psychological Science, 17*(2), 136-141.

65. Schlesinger, M., **Amso, D.,** & Johnson, S.P. (2007). The neural basis for visual selective attention in young infants: A computational account. *Adaptive Behavior, 15*, 135-148.

66. Schlesinger, M., **Amso, D**., & Johnson, S.P. (2007). 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*, 157-64.

67. **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.

68. **Amso, D.,** & Johnson, S.P. (2006). Learning by selection: Visual search and object perception in young infants. *Developmental Psychology, 42*(6), 1236-45.

69. **Amso, D.,** & Johnson, S.P. (2006). Visual selection and object perception. *Proceedings of The Fifth International Conference on Development & Learning,* 1-5. IEEE, NY, NY.

70. 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.

71. **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.

72. **Amso, D.** & Johnson, S. P. (2005). Selection and inhibition in infancy: Evidence from the spatial negative priming paradigm. *Cognition, 95*(2), B27-B36.

73. 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.

74. 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.

75. 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.

book chapters

76. *Tummeltshammer, K., & **Amso, D**. (2020). *Infant visual attention*. In Catherine Tamis-Lemonda and Jeffrey Lockman (Eds). Cambridge Handbook of Infant Development.

77. *Al Sager, A., Dajani, R, & **Amso, D.** (2019). *Cognitive development mechanisms underlying socioemotional learning.* In Margaret Sinclair & Andy Smart (Eds). Educating for the Social, the Sustainable and the Emotional.

78. Oakes, L. & **Amso, D.** (2018). *Development of visual attention.* In John Wixted (Ed). The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition.

79. **Amso, D.** (2009). *Perceptual development: Attention*. In B. Goldstein (Ed.). Encyclopedia of Perception. SAGE Publications, Thousand Oaks, CA.

80. **Amso, D.** & Johnson, S.P. (2009). *Building object knowledge from perceptual input.* In B.M. Hood & L. Santos (Eds.). The origins of object knowledge. Oxford University Press, NY, NY.

81. **Amso, D.** & Casey, B.J. (2008). *The development of cognitive control*. In L. Squire (Ed.), The Encyclopedia of Neuroscience. Elsevier, San Diego, CA.

82. 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. Oxford University Press, NY, NY.

83. 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, NY.

84. 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, NY.

85. Johnson, S. P., Hannon, E., **Amso, D**. (2005). *Perceptual development*. In Brian Hopkins (Ed.), The Cambridge Encyclopedia of Child Development, Cambridge University Press, Cambridge, UK.

other publications

86. **Amso, D.** & Blumberg, M. (2019). 50th Anniversary of Developmental Psychobiology. *Developmental Psychobiology, 61*(3). 315. *doi: 10.1002/dev.21857*

87. Dajani, R., Al Sager, A., & **Amso, D.** (2019). The value of the We Love Reading program for executive functions in Jordanian children. *Proceedings of MIT Learning International Networks Consortium (LINC).*

88. **Amso, D.** (2017). When do children start making long-term memories? *Scientific American Mind, 28*(1). 72-73.

89. **Amso, D.** & Schlaggar, B. (2016). Editorial: *Developmental Cognitive Neuroscience, 18*(1).

90. Vinson, D.W., Abney, D.H, **Amso, D**., Chemero, Cutting, J.E., Dale, R., Freeman, J.B., Feldman, L.B., Friston, K.J., Gallagher, S., Jordan, J.S., Mudrik, L., Ondobaka, S., Richardson. D.C., Shams. L., Spivey, M.J., et al. Perception, as you make it. *The Behavioral and Brain Sciences*. 39: e260. doi: 10.1017/S0140525X15002678

91. **Amso, D.** (2015). Editorial: News from the editors A winner of 2014 Developmental Science Early Career Research Prize. *Developmental Science, 6*(18), 863.

92. **Amso, D.** & Markant, J. (2012). Self-regulation: A comprehensive overview of an interdisciplinary topic. PsycCritiques, 56. (Daniel Wedding, Ed).

93. **Amso, D.** (2011). *The developmental process: Evidence from an integrating science*. In Developmental Psychology (Johan Hakansson, Ed.). Nova Science Publishers. pp.181-3.

94. Schlesinger, M., & **Amso, D.** (2011). Oculomotor Skill Supports the Development of Object Representations. A commentary on "Précis of: The Origin of Concepts". *Brain & Behavioral Sciences, 34*, 113-167.

95. **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.

INVITED NATIONAL/INTERNATIONAL SYMPOSIA

2021 "*Challenges in the evaluation of adaptation processes in the study of self-regulation*". Webinar. December 2021.

2021 "ManyBabies5: A large-scale, collaborative investigation of the Hunter & Ames Model of infant looking preference." *Updates from ManyBabies: Collaborative efforts to promote best practices and improve robustness in developmental science.* Presented at the Society for Research in Child Development, April, Virtual.

2021 "Attention and memory in infants and children." *Examining the Developmental Relationship Between Visual Processing and Visual Selective Attention.* Presented at the Society for Research in Child Development, April, Virtual.

2021 "What's that? How Visual Distraction May Help, or Hinder, Infants' and Children's Memory" *Using Computational Analysis of Behavior to Discover Memory-Guided Attention Mechanisms During Naturalistic Visual Search in Childhood.* Presented at the Society for Research in Child Development, April, Virtual.

2021 "The ontogeny of hippocampus-dependent memory." To be presented at the Society for Neuroscience Chicago, Washington, DC.

2019 "Relating to others: Implications for cognitive development." *Social relevance as a cue to learning and attention in infancy*. Presented at Cognitive Development Society (CDS), October, Louisville, KY.

2019 "How the Environment Shapes Learning Across Development." *Differential impact of socioeconomic status on associative and reward learning in infancy.* Presented at the Society for Research in Child Development (SRCD), March, Baltimore, MD.

2018 "Acquiring knowledge: a multimethod and multispecies symposium on learning." *Learning to attend: 2D and naturalistic environments require different learning systems.* Presented at International Society for Developmental Psychobiology (ISDP), San Diego, CA.

2018 "Mechanisms governing learning in multisensory contexts." *The Origins of Cortical Multisensory Dynamics: Evidence From Human Infants.* Presented at International Mind Brain and Education Society (IMBES), Los Angeles, CA.

2018 "More than meets the eye: Pupil dilations and spontaneous eye-blinks as complementary measures of infant cognition". *Pupil dilation, eye-blink rate, and the value of mother establish the origins of reward learning in infancy*. Presented at 21st Biennial International Conference on Infant Studies (ICIS), Philadelphia, PA.

2018. "Developmental Links: Speech, Language, and Executive Functions." *Language and learning mechanisms in infancy.* Presented at 33d Annual Mortimer D. Sackler Winter Conference in Developmental Psychobiology.

2017 "Neurodevelopmental Mechanisms of the Achievement Gap." *Socioeconomic status differences in cognitive development begin in infancy.* Presented at the Association of Psychological Science, Boston, MA.

2017 *A SmartPlayroom for early diagnosis and classification of neurodevelopmental disorders.* 32nd Annual Mortimer D. Sackler Winter Conference in Developmental Psychobiology.

2017 *Contextual cueing effects on visual selective attention in 6- and 10-month-old infants.* 7th Annual CEU Conference on Cognitive Development, Budapest, Hungary.

2017 "Early Adversity and Executive Function Development." *The unique role of cognitive enrichment in the development of rule-guided behavior.* Society for Research in Child Development, Austin, TX.

2016 "Infants' Sensitivity to Rules, Regularities, and Cues." *8-month-old infants create hierarchical rules to support learning and generalization in novel contexts.* International Conference on Infant Studies, New Orleans, LA.

2015 "Working Memory Mechanisms During Development." *Visual attention supports encoding for subsequent memory.* International Conference for Psychological Science. Amsterdam, Netherlands.

2014 *An attentional but not racial bias underlies the other-race effect in infancy.* International Society for Developmental Psychobiology, Washington, DC.

2014 "Infant/Toddler Cognition." *The early emergence of hierarchical rule learning.* Co-authored Talk presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, Los Angeles, CA.

2014 "Human Reinforcement Learning: Cognition and Ageing." *The development of hierarchical rule learning and generalization in infancy.* Co-authored Talk to be presented at the annual meeting of the Society for Neuroscience, Washington, DC.

2013 "Attention": *Attention modulates the effects of intelligence on recognition memory during the school years*. Society for Research in Child Development. Seattle, WA.

2013 "Advances in Executive Functions Research." *The development of rule-guided behavior in the transition from childhood into adolescence.* Cognitive Development Society, Memphis, TN.

2012 "Naturalistic Experimentation". *The typical developmental trajectory of bottom-up relative to top-down influences on gaze direction*. International Society for Infant Studies, Minneapolis, MI.

2010 "When Stroop & Ebbinghaus Meet. The role of cognitive control in memory retrieval." *The development of learning from multiple parameters: item relations, salience, and cognitive flexibility*. Memory Disorders Research Society Meeting, Chicago, Illinoise.

2010 *The development of learning from multiple sources: Salience, prediction, and cognitive flexibility.* International Society for Developmental Psychobiology, San Diego, CA.

2009 "Sensory Integration & Perception: Impact on Function and Development". The Tenth Annual Research Symposium, R2K. *Mechanisms of visual exploration: A developmental account.* Long Beach, CA

2009 "The Role of Action in the Development of Object Perception*". The role of oculomotor development on object perception*. Cognitive Development Society. San Antonio, TX

2009 "Paying Attention to Attention in Language Learning and Development". *The interaction of learning and maintenance systems over development.* Society for Research in Child Development, Denver, CO.

2008 "Methods in developmental cognitive neuroscience: the state of the art". *Functional Magnetic Resonance Imaging & Diffusion Tensor Imaging: Applications and promise for developmental research.* International Conference on Infant Studies Vancouver, BC.

2007 "BDNF, learning and development". *Human imaging studies of BDNF, learning and development.* 22nd Annual Winter Conference, Current Issues in Developmental Psychobiology, Costa Rica.

2006 "Toward a constructivist account of perceptual completion". *Visual selection and object perception.* International Conference on Development and Learning, Bloomington, IN.

2005. "Object knowledge". *Building object knowledge from perceptual input.* Yale University, New Haven, CT.

INVITED NATIONAL/INTERNATIONAL TALKS

2022 Invited Program Speaker, International Conference on Infant Studies

2022 Kavil Summer Institute Motivated Cognition: Environmental, Neural, and Computational Bases

2022 Colloquium, Central European University
2021 Center for Brain and Cognitive Development, Birkbeck, University of London
2021 FABLAB, Department of Psychology, Yale University

2020 United Nations Education for Justice (E4J) Global Dialogue Series
2020 CUMC Autism Series
2020 Opportunity Insights, Harvard University
2020 Speaker, Arab Science Week
2020 Department of Psychology, Columbia University
2020 Kavli Summer Institute in Cognitive Neuroscience, Santa Barbara, CA (postponed 1 yr).
2020 International Congress for Infant Studies, (postponed 2 yrs).
2019 Haskins Laboratory and Yale University, CT.
2019 Invited Speaker, Bill and Melinda Gates Foundation, Seattle, WA.
2019 Department of Psychology, Columbia University, NY.
2019 Teacher's College, Columbia University, NY.
2019 Cognitive Development Society, Louisville, KY.
2019 Department of Psychology, UPENN, PA.
2018 Department of Psychiatry, Columbia University, NY.
2018 Department of Applied Psychology, NYU, NY.
2018 Bridging Research and Practice Successfully, Amman, Jordan
2018 Department of Psychology, Yale University, CT.
2018 Department of Psychology, University of Tennessee, TN.
2018 Rhode Island Policy Lab, Brown University, RI.
2017 Center for Mind and Brain, UC Davis, CA.
2017 Center for Neurobehavioral Development, University of Minnesota, MN.
2017 Laboratories of Cognitive Neuroscience, Harvard Medical School, MA.
2016 Department of Psychology, New York University, NY.
2016 Department of Psychology, Cornell University, Ithaca, NY.
2016 Department of Psychology, Harvard University, Boston, MA.
2016 Department of Psychology, New York University, NY, NY.
2016 Department of Psychology, University of Indiana, Bloomington, IN.
2015 Northeastern University, Boston, MA
2015 Alpert Medical School, Brown University, RI.
2015 Department of Psychology, The University of Arizona, AZ.
2015 Weil Medical College of Cornell University, NY.
2015 The Global Education & Leadership Foundation, NY.
2014 The International Congress for Integrative Developmental Cognitive Neuroscience. CA.
2014 Department of Psychology Developmental Talk Series, University of Connecticut, CT
2014 Current Works in Behavior, Genetics, and Neuroscience talk series Yale University, CT.
2014 TRI Lab: Conducting Research in Real World Settings, Brown University, Providence, RI.
2014 Department of Psychology, University of Massachusetts at Amherst, MA.
2014 Department of Neurology, Warren Alpert Medical School, Brown University, RI.
2014 Department of Psychology and Center for Neural Science, Duke University, NC.
2014 The 2014 Mortimer D. Sackler Summer Institute in Developmental Psychobiology, NY.
2013 James S. McDonnell Scholar Award Meeting, Cambridge, UK.
2013 Bradley Hospital, Brown University, RI.
2013 2013 Sackler Summer Institute in Developmental Psychobiology, NY.
2013 Harvard Medical School, Boston Children's Hospital, MA.
2013 Department of Psychology, University of Massachusetts, MA.
2013 Recent Advances in Infant Research: Attention and Memory in Infancy, NY.

2011 Sackler Institutes, Weil Cornell Medical College, NY.
2010 Brown Institute for Brain Science Brown University, RI.
2009 Cognitive Linguistic and Psychological Sciences, Brown University, RI.
2009 Psychology Brown Bag, Columbia University: Little mechanisms, big world, NY.
2008 Weill Cornell Program in Neuroscience Retreat, WCMC, Cornell University, NY.
2007 Child and Family Center, Rockefeller University, NNY.
2007 Department of Psychology, Rutgers, NJ.
2005 Department of Psychology, University of California at Berkeley, CA.
2005 Department of Psychology, University of Denver, CO.
2005 Department of Psychology, Harvard University, MA.
2005 Department of Psychology, UMASS at Amherst, MA.
2005 Sackler Institute for Developmental Psychobiology, WCMC, Cornell University, NY.

SYMPOSIA/WORKSHOPS ORGANIZED

2021 Program Committee, Winter Meeting in Developmental Psychobiology

2021 Panel Chair: A*ttention and memory in infants and children.* Presented at the Society for Research in Child Development, Virtual.

2020 Panel Co-Chair and Leader: *Doing better - a panel discussion on how best to improve scientific practices with respect to inclusivity and equality.* International Society for Developmental Psychobiology.

2020 Symposium Co-Chair: *Stress exposure during pre- and postnatal development – elucidating mechanisms underlying consequences for neurodevelopment.* Flux International Congress on Integrative Developmental Cognitive Neuroscience

2020 Program Committee, Flux Congress

2020 Program Committee, Winter Meeting in Developmental Psychobiology

2019 Program Committee, Winter Meeting in Developmental Psychobiology

2018 Program Committee, Winter Meeting in Developmental Psychobiology

2017 Program Committee, Winter Meeting in Developmental Psychobiology

2017 Organizer: *Inspiring Women in Science*, Brown University

2017 Chair: *Innovations in Eye-Tracking Methodologies to Study Anxiety-Related Threat Biases Across Development.* Society for Research in Child Development, Austin, TX.

2016 Co-Organizer: *Brains in Crisis: Stress and Resilience in Syrian Refugee Children*, Brown

2015 Co-Organizer: International Conference on Development and Learning and Epigenetic Robotics, Brown University

2012 Chair: *Attention and Brain Development*. Mortimer D. Sackler Winter Meeting. Oahu, Hawaii.

2011 Co-Chair: *Attention and memory interactions across development.* Cognitive Development Society, Philadelphia, PA.

2010 Chair: *Emergent Complexity: A cross domain approach to infant learning.* International Conference on Infant Studies, Baltimore, MD.

2007 Co-Director, John Merck Fund Summer Institute on the Biology of Developmental Disabilities; Cornell University, Ithaca, NY.

PROFESSIONAL SERVICE

To the Department/University

2021-2022 Psychology Summer Program In Psychological Science Advisor
2020-22 Space Committee, Department of Psychology, Columbia University
2020-22 Diversity and Equity Initiative (DEI), STEM Departments, Columbia University
2020-22 Diversity and Equity Initiative (DEI), Department of Psychology, Columbia University
2021-2022 Promotion Review Committee (Marvin, Fox-Glassman)
2019 Steering Committee, Center for Middle East Studies
2019 Faculty Affiliate, Humanitarian Innovation Initiative, Watson Institute
2019 Director of Graduate Studies, CLPS Department
2019 Lipsitt-Duchin Lecture Steering Committee
2019 Magnetic Resonance Facility Scientific Advisory Board
2018 Faculty Affiliate, Humanitarian Innovation Initiative, Watson Institute
2018 Director of Graduate Studies, CLPS Department
2018 Neuroscience Graduate Program Steering Committee
2018 Magnetic Resonance Facility Scientific Advisory Board
2017 Director of Graduate Studies, CLPS Department
2017 Faculty Affiliate, Humanitarian Innovation Initiative, Watson Institute
2017 Neuroscience Graduate Program Steering Committee
2017 Magnetic Resonance Facility Scientific Advisory Board
2017 Humanitarian Initiative Seed Grant Reviewer
2017 Co-Organizer, *Inspiring Women in Science*, Brown University
2016 Director of Graduate Studies, CLPS Department
2016 Faculty Affiliate, Humanitarian Innovation Initiative, Watson Institute
2016 Magnetic Resonance Facility Scientific Advisory Board
2016 CLPS, Undergraduate Curriculum Committee
2016 Psychology ScB Concentration Advisor
2015 Magnetic Resonance Facility Scientific Advisory Board
2015 Faculty Mentor for Young Scholars Conference, Brown University
2015 CLPS, Undergraduate Curriculum Committee
2015 Psychology ScB Concentration Advisor
2015 NIH Responsible Conduct of Research Lecture
2015 CLPS, Undergraduate Curriculum Committee
2014 Committee Member, Cognitive Neuroscience Faculty Search
2014 Psychology ScB Concentration Advisor
2014 Schlosberg/Sher Fein Award Committee
2014 Neustein Graduate Fellowship Applications Reviewer

2014 CLPS, Undergraduate Curriculum Committee
2014. Brown 250th Anniversary BIBS Talk and Lab Demonstrations
2014 RINC Pilot Program Grant Reviewer
2013 Psychology ScB Concentration Advisor
2013 CLPS, Undergraduate Curriculum Committee
2012 Psychology ScB Concentration Advisor
2012 CLPS, Undergraduate Curriculum Committee
2012 Neuroscience Graduate Program Graduate Admissions Committee
2011 Psychology ScB Concentration Advisor
2011 CLPS, Undergraduate Curriculum Committee
2011 Schlosberg/ Sher Fein Award Committee
2010 CLPS, Undergraduate Curriculum Committee
2010 Psychology ScB Concentration Advisor

Editorial Service to Scientific Community

2019-2022 Associate Editor, *Child Development*
2021 Guest Editor, *Frontiers in Developmental Psychology,* SI Distance Empirical Research
2021 Guest Editor, *Developmental Cognitive Neuroscience* SI Evidence-Based Policy
2019 Guest Editor, 50th Anniversary Special Issue of *Developmental Psychobiology*
2016 Associate Editor, *Developmental Science*
2015 Guest Editor, Special Issue *Developmental Cognitive Neuroscience*
2015 Associate Editor, *Developmental Science*
2014 Associate Editor, *Developmental Science*
2014-p Consulting Editor, *Developmental Psychology*
2013 Associate Editor, *Developmental Science*
2010-p Editorial Board, *Infancy*
2010-p Associate Editor, *Frontiers in Developmental Psychology*

Review Service to Scientific Community

2020 Society for Research in Child Development Panel Chair: Refugee Children
2019 National Institutes of Health Director's New Innovator Award Review
2019 Society for Research in Child Development Panel Chair: Cognitive Processes
2018 National Institutes of Health, Sensory and Motor Neuroscience *Fellowship* study section
2016 National Science Foundation, Developmental & Learning Sciences
2016 National Institutes of Health, Sensory and Motor Neuroscience *Fellowship* study section
2015 Society for Research in Child Development Panel Reviewer
2015 ICIS Developmental Neuroscience Panel Co-Chair
2015 National Institutes of Health Early Career Reviewer Program
2015 National Institutes of Health *Cognition & Perception* study section
2015 National Institutes of Health *Environmental Contributions to Autism Spectru Disorders*
2015 National Institutes of Health Sensory and Motor Neuroscience, *Cognition & Perception*
2014. Society for Research in Child Development Panel Reviewer
2013 Society for Research in Child Development Panel Reviewer
2012 Society for Research in Child Development Panel Reviewer
2011 Society for Research in Child Development Panel Reviewer

2007 Biological Processes Panel, International Conference on Infant Studies

Service in Commitment to Diversity & Inclusion

2020-22 Diversity and Equity Initiative (DEI), STEM Departments, Columbia University
2020-22 Diversity and Equity Initiative (DEI), Psychology, Columbia University
2021 Co-PI, NSF Diversity Award Proposal for ISDP
2019 Graduate Students of Color in STEM Workshop Leader
2019 WiSTEM Workshop Leader
2019- URM Faculty Search Committee, Carney Institute for Brain Science
2019 NIH Initiative for Maximizing Student Development Selection Committee and Board
2019- CLPS Department Diversity & Inclusion Committee
2018 NIH Initiative for Maximizing Student Development Selection Committee and Board
2018 CLPS Department Diversity & Inclusion Committee
2017 Organizer: *Inspiring Women in Science*, Brown University
2017 Mentor for women in science, Three Circles of Alemat, PEER Project of the National Academies of Science, Engineering, and Medicine
2017 CLPS Department Diversity & Inclusion Committee
2016 CLPS Department Diversity & Inclusion Committee
2016 Graduate Women in Science Faculty Panel
2015-p Project Director: Stress and Resilience in Syrian Refugee Children

Other Service

2021 Steering Committee, Winter Conference in Developmental Psychobiology
2020-22 Leadership Team, Many Babies 5 Project
2020. Awards Committee, Flux Congress for Developmental Neuroscience
2020 Board Member, International Society for Developmental Psychobiology
2020 Awards Committee Chair, International Society for Developmental Psychobiology
2019 Sponsorship Committee, International Society for Developmental Psychobiology
2019 Board Member, International Society for Developmental Psychobiology
2019 APA PsycShorts Jury Panel
2019 FLUX Congress Dissertation Award Committee
2019 Board Member, International Society for Developmental Psychobiology
2019 Steering Committee, Mortimer D. Sackler Winter Conference in Developmental Psychobiology
2018 Board Member, International Society for Developmental Psychobiology
2018 Steering Committee, Mortimer D. Sackler Winter Conference in Developmental Psychobiology
2017 Board Member, International Society for Developmental Psychobiology
2017 Steering Committee, Mortimer D. Sackler Winter Conference in Developmental Psychobiology

TEACHING AND ADVISING

2022-Spring	In Service of Equity: Socioeconomic Status, Education, and Development (12)
2022-Spring	Developmental Cognitive Neuroscience (74)
2022-Fall	PSYC 4202: Theories of Change in Human Development (15)
2021-Summer	Developmental Cognitive Neuroscience (60)
2021-Spring	PSYCGU4880: In Service of Equity (14)
2020-Fall	PSYC 4202: Theories of Change in Human Development (12)
2020-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (74)
2019-Fall	CLPS 1620: Developmental Cognitive Neuroscience (22)
2019-Spring	CLPS 1690: Lab in Developmental Psychology (20)
2018-Fall	CLPS 1620: Developmental Cognitive Neuroscience (22)
2018-Spring	CLPS 00600: Developmental Psychology (139)
2017-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (147)
2016-Fall	CLPS 1690: Lab in Developmental Psychology (15)
2016-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (117)
2015-Fall	CLPS 1620: Cognitive Developmental Neuroscience (21)
2015-Spring	CLPS 1690: Lab in Developmental Psychology (21)
2013-Fall	CLPS 1620: Cognitive Developmental Neuroscience (21)
2013-Fall	CLPS 2800D: Graduate Core Topics in Developmental Psychology (4)
2013-Spring	CLPS 1690: Lab in Developmental Psychology (12)
2012-Fall	CLPS 1680: Developmental Disorders (17)
2012-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (80)
2011-Fall	CLPS 1620: Cognitive Developmental Neuroscience (18)
2011-Spring	CLPS 1690: Lab in Developmental Psychology (15)

Postodoctoral Fellows

Maya Rosen (Harvard University, K99 Co-Mentor, awarded)
Denise Werchan (2019-2020)
Kristen Tummultshammer (2015-2019)
Livia Freier (2015-2019)
Heidi Baumgartner (2014-2017)
Kerstin Unger (2013-2015)
Elena Tenenbaum (2012-2015)
Julie Markant (2010-2015)

Graduate Student (primary advisees)

Lauren Emberson, PhD (Awarded 2011)
Andrew Lynn (2014-)
Denise Werchan, PhD (Awarded 2019)
Jazlyn Nketia (2017-)
Claudia Espinosa (2021-)

Additional Graduate Mentorship (2011-2022)

Mahalia Prater Fahey (First Year Project Committee)
Camila Demaestri (Prelim Committee)
Elena Luchkina (Thesis Committee)
Meghan Gallo (First Year Project Committee)
Diana Burk (Dissertation Committee Chair)
Jie Ren (Thesis Committee)
Boyoung Kim (Prelim Committee)
Fang-Chi Yang (Prelim/Thesis Committee)
Christopher Erb (Thesis Committee)
Nicholas Franklin (Prelim Committee)
Ali Arslan (Prelim Committee)
Elena Tenenbaum (Thesis Committee)
Glenda Molina (Thesis Committee)
Haley Goodwill (2013, Rotation)

SELECT STUDENT PRESENTATIONS & REFEREED ABSTRACTS

1. *Bianco, C… **Amso, D** (2022) A pandemic beyond the virus: Maternal COVID-related postnatal stress is associated with infant temperament. To be presented ICIS Vancouver.

2. *Bloom, P., *Hadis, S., **Amso, D.** (2021) Impacts on Cognitive and Emotional Development of Wealth Extraction from the Families of the Incarcerated via Telecommunications Costs: A Policy Review. To be presented at the International Society for Developmental Psychobiology, November, Virtual.

3. *Bianco, C., Sania, A., Fifer, W., Firestein, M., Kyle, M., Monk, C., Shuffrey, L., Dumitriu, D., Amso, D. (2021). A pandemic beyond the virus: Maternal stress is associated with infant temperament. To be presented at the COVGEN Alliance Summit, November, Virtual.

4. *Eboigbe, L., *Nketia, J., **Amso, D.** (2021) The Impact of Parent Report of Child Stress and Child Perceived Parental Responsivity on Working Memory in Early Childhood. To be presented at the International Society for Developmental Psychobiology, November, Virtual.

5. *Martino, R., Werchan, D., **Amso, D.** (2021) Acquisition of Gender STEM Stereotypes through Reinforcement Learning in School-Age Children. Presented at the Society for Research in Child Development, April, Virtual.

6. *Prater Fahey, M., Grahek, I., Wolf, C.D., Placido, D., Orwicz, A., **Amso, D.,** & Shenhav, A. (2020, September). When is my effort worthwhile? Learned efficacy influences how adolescents allocate cognitive control. Flux International Congress on Integrative Developmental Cognitive Neuroscience

7. *Gunther, K.E., Werchan, D.M., Anaya, B., Vallorani, A., Pérez-Edgar, K., & **Amso, D.** (2020, July). Maternal buffering of neural responses to neutral facial stimuli varies as a function of infant temperamental regulation. International Conference on Infant Studies. Glasgow, Scotland.

8. *Werchan, D., & **Amso, D.** (2020, July). Top-down activation in mid-level visual regions supports the emergence of efficient object perception across the first year of life. International Conference on Infant Studies. Glasgow, Scotland.

9. *Lynn, A., Rida, L., Maul, J., Franklin, A., & **Amso, D.** (2019, October). Visual processing contributions to feature search across childhood. Cognitive Development Society. Louisville, KY.

10. *Nketia, J. & **Amso, D.** (2019, October). Can We Make Analogous Executive Functions Tasks Across Computerized and Naturalistic Testing Environments? Cognitive Development Society. Louisville, KY.

11. *T-Pedersen, C., & **Amso, D.** (2019, October). More than fun and games: play as an index of developing executive functions. Cognitive Development Society. Louisville, KY.

12. *Werchan, D., Gordon, L., & **Amso, D.** (2019, October). Top-down activation in mid-level visual regions supports efficient object perception in 8-10-month-old infants. Cognitive Development Society. Louisville, KY.

13. *McCormick, C., Puggioni, G., Tokadjian, H., **Amso, D.**, & Sheinkopf. S. (2019, October). Identifying meaningful profiles of visual attention in children with autism. International Society for Developmental Psychobiology. Chicago, Ill.

14. *Lynn, A, Govindarajan, L., Kim, S., Thakkar, K., Serre, T., & **Amso, D.** (2019, August). Top-down saliency maps link physical navigation and memory-guided attention in early childhood. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, New York, NY.

15. *Lynn, A. Festa, E.K., Heindel, W. C., & **Amso, D.** (2018, September). Feature integration across the dorsal and ventral streams in childhood. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Berlin, Germany.

16. *Nketia, J., Burns, C., & **Amso, D.** (2018, September). Does socioeconomic status impact executive functions similarly in computerized vs. naturalistic testing environments? Poster presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Berlin, Germany.

17. *Placido, D., Nketia, J.A., Werchan, D.M., **Amso, D.** (2018, September). Exploring the effects of emotional enrichment on components of executive functions in children of varying socioeconomic status. Poster presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Berlin, Germany.

18. Werchan, D. M. & **Amso, D**. (2018, September). Rule learning supports the development of visual attentional biases in 9-month-old infants. Poster presented at the Flux Congress on Integrative Developmental Cognitive Neuroscience, Berlin, Germany.

19. Novick A.M.**,** Werchan D.M., **Amso D**., Parade S.H., Ackerman L., Gunther K, Seifer R., Philip N.S., Amso D., and Tyrka A.R. (2018, May). Cognitive and affective function in school- aged children experiencing trauma and adversity. Presented at 73rd Annual Meeting of the Society of Biological Psychiatry, NY.

20. *Lynn, A. Festa, E.K., Heindel, W. C., & **Amso, D**. (2018, May). Feature integration across the dorsal and ventral streams in childhood. Presented at the Vision Sciences Society, Naples, FL.

21. *Werchan, D.M., Gunther, K., & **Amso, D**. (2017, September). 9-month-olds use higher-order contexts to organize working memory representations in the a-not-b task. Poster presented at International Congress on Integrative Developmental Cognitive Neuroscience, Portland, OR.

22. *Tummeltshammer, K. & **Amso, D**. (2017, September). Visual learning is modulated by reward value in infancy. Flash Talk presented at International Congress on Integrative Developmental Cognitive Neuroscience, Portland, OR.

23. *Werchan, D. M., Baumgartner, H., Martino, R., Lewkowicz, D. & Amso, D. (2017, April). Unisensory and multisensory processing in cortex. Presented at SRCD, Austin, Texas.

24. *Werchan, D. M., Gunther, K., & **Amso, D.** (2017, April). 9-month-old infants use contextual cues to support working memory in the a-not-b task. Poster presented at the Society for Research in Child Development, Austin, Texas.

25. *Freier, L., Gunther, K., Silver, B., Badre, D., & **Amso, D.** (2017, April). 3- to 7-year-olds' use of working memory gating strategies in a naturalistic task. Presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

26. *Tummeltshammer, K., & **Amso, D.** (2017, April). Infants transfer visual responses from rewards to reward predictive cues. Poster presented at the biennial meeting of the Society for Research in Child Development (SRCD), Austin, TX.

27. *Tummeltshammer, K., & **Amso, D.** (2017, January). Infants transfer visual responses from rewards to reward predictive cues. Poster presented at the 7th Annual CEU Conference on Cognitive Development, Budapest, Hungary.

28. *Baumgartner, H., Werchan, D., Lewkowicz, D., & **Amso, D.** (2016, September). Cortical plasticity and specialization in response to multimodal events in infancy. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, St. Louis, MI.

29. *Lynn, A. & **Amso, D.** (2016, September). Valence modulate visual perceptual discrimination: Evidence from the other-species effect. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, St. Louis, MI.

30. *Baumgartner, H., Haas, S., Ackerman, L., Kirkham, N., & **Amso, D.** (2016, May). The development of object-based attention in infancy. Presented at the International Conference on Infant Studies, New Orleans, LA.

31. *Gunther, K., Markant, J., Martino, R., & **Amso, D**. (2016, May). The relation between attention orienting in infancy and executive control in early childhood. Presented at the International Conference on Infant Studies, New Orleans, LA.

32. *Righi, G., Tenenbaum, E., **Amso, D**., & Sheinkopf, S. (May, 2016). Sensitivity to audio-visual synchrony and its relation to language abilities in children with ASD. Presented at the International Meeting for Autism Research.

33. *Tenenbaum, E., **Amso, D.,** & Sheinkopf, S. (2015, November). Attentional cues to support word learning among children with ASD and typically developing children. Presented at the Boston University Conference of Language Development, Boston, MA.

34. *Lynn A, **Amso, D.** (2015, September). Dorsal stream hierarchical organization and the development of visual attention. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Leiden, Netherlands.

35. *Werchan, D. M., Collins, A. G. E., Frank, M. J., & **Amso, D**. (2015, September). Activation of prefrontal cortex during hierarchical rule learning in 8-month-old infants: data from near-infrared spectroscopy. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Leiden, Netherlands.

36. *Tenenbaum, E., **Amso, D**., & Sheinkopf, S. (2015, May). Attentional cues to support word learning among autistic and typically developing children. Presented at the International Meeting for Autism Research, Salt Lake City, UT.

37. *Ackerman, L., Markant, J., & **Amso, D**. (2015, March). Selective attention mitigates relationship between socioeconomic status and memory in infancy. Presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

38. *Nussenbaum, K. & **Amso, D**. (2015, March). An attentional Goldilocks effect for children's word learning from digital media. Presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

39. *Unger, K., Chatham, C.H., Ackerman, L., Luna-Delgado, J.C., Badre, D., & **Amso, D.** (2015, March). Working memory gating mechanisms provide a key to understanding developmental change in rule-guided behavior. Presented at the biennial meeting for the Society for Research in Child Development, Philadelphia, PA.

40. *Werchan, DM, Frank, M.J., & **Amso, D.** (2014, November). The development of hierarchical rule learning and generalization in infancy. Presented at the International Society for Developmental Psychobiology, Washington, DC.

41. *Unger, K., Ackerman, L. **Amso, D.** & Badre, D. (2014, October). Developmental change in rule-guided behavior. Presented at the Society for Neuroscience, Washington, DC.

42. *Markant, J. & **Amso, D.** (2014, July). Selection via suppression counteracts the other-race effect among 9-month-old infants. Presented at the International Conference on Infant Studies, Berlin, Germany.

43. **Amso, D.,** Unger, K., & Badre D. (2013, September). The development of hierarchical cognitive control and rule abstraction. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Pittsburgh, PA.

44. *Markant, J. & **Amso, D.** (2013, September). Attention moderates the effects of memory encoding and subsequent item recognition; Evidence from combined eye tracking and fMRI. Presented at the Flux International Congress on Integrative Developmental Cognitive Neuroscience, Pittsburgh, PA.

45. *Haas, S. & **Amso, D.** (2013, October). Developmental change in distribution of attention orienting in natural scenes with faces. Presented at the Cognitive Development Society, TN.

46. *Markant, J. & **Amso, D.** (2013, October). Selective attention moderates 4 month-old's categorization of cats and dogs. Presented at the Cognitive Development Society, Memphis, TN.

47. **Amso, D.,** Haas, S., Markant, J., Tenenbaum, E., & Sheinkopf, S. (2012, October). Influences on gaze direction in autism. Presented at the International Society for Developmental Psychobiology, New Orleans, LA.

48. *Markant, J. & **Amso, D.** (2012, June). Selective attention promotes category learning among 9-month-old infants. Presented at the International Society for Infant Studies, Minneapolis, MI.

49. *Swan, K., **Amso, D.,** & Kirkham, N. (2012, June). Infants learn spatial and temporal visual relations from directional statistics. Presented at the International Society for Infant Studies, Minneapolis, MI.

50. *Markant, J. & **Amso, D**. (2012, January). Attention and memory interactions across development. Presented at the Mortimer D. Sackler Winter Meeting on Developmental Psychobiology, Ko Olina O'ahu, HI.

51. **Amso, D**., Haas, S., & Markant, J. (2011, November). What defines salience in visual orienting. Presented at the International Society for Developmental Psychobiology, Washington, DC.

52. *Haas, S., McShane, L., Badre, D., & **Amso, D**. (2011, October) The development of cognitive control: evidence from responses to simple relative to embedded rule structures. Presented at the Cognitive Development Society, Philadelphia, PA.

53. *Markant, J. & **Amso, D.** (2011, October). Attention and memory interactions across development. Presented at the Cognitive Development Society, Philadelphia, PA.

54. **Amso, D.,** & Davidow, J. (2011, April). Neural correlates of behavioral learning invariance across development: evidence from functional connectivity. Presented at the biennial meeting of the Society for Research in Child Development, Montreal, Canada.

55. *Emberson, L., Kahn, J., Haas, S. & **Amso, D.** (2011, April). Learning systems support object perception across regular environmental exposure: evidence from a combined fMRI/eye-tracking methods approach. Presented at the Cognitive Neuroscience Society, San Francisco, CA.

56. *McShane, L.M., *Haas, S., **Amso, D.,** & Badre, D. (2011, April). Developmental differences in hierarchical cognitive control. Presented at the Cognitive Neuroscience Society, San Francisco, CA.

57. *Kramer, B., & **Amso, D**. (2010, April). The role of maintenance in learning to associate temporally discontinuous items: A developmental investigation. Presented at the Cognitive Neuroscience Society Meeting, Montreal, Canada.

58. *Emberson, L., & **Amso, D**. (2010, April). Perceptual learning of complex objects: Mechanisms of integration across multiple views of a novel object in cluttered scenes? Presented at the Cognitive Neuroscience Society Meeting, Montreal, Canada.

59. **Amso, D.** & Tottenham, N. (2010, March). Targeted Visual Exploration of Fearful But Not Happy Faces Supports Emotion Discrimination. Presented at the International Conference on Infant Studies, Baltimore, MD.

60. *Fitzgerald, M., Tottenham, N., Davidow, J., Gilhooly, T., & **Amso, D.** (2008, March). The development of emotion expression discrimination in infants: Evidence from infant scan patterns. Presented at the International Conference on Infant Studies, Vancouver, Canada.

61. *Davidow, J., & **Amso, D.** (2008, March). Learning two parameters acting on one item: Evidence from response to novelty in an eye tracking paradigm. Presented at the International Conference on Infant Studies, Vancouver, Canada.

62. **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. Presented at the Cognitive Neuroscience Society, NY, NY.

63. **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. Presented at the Cognitive Neuroscience Society, New York, NY.

64. **Amso, D.** & Johnson, S. P. (2005, April). Insights into inhibitory development: Evidence from spatial negative priming in infants. Presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

65. **Amso, D.,** Slemmer, J.A., & Johnson, S.P. (2004, May). Visual selection and object perception: How do infants know where to look? Presented at the International Conference on Infant Studies, Chicago, IL.

66. **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. Presented at the Cognitive Neuroscience Society, San Francisco, CA.

67. Johnson, S. P., **Amso, D.,** & Slemmer, J. A. (2004, April). Where infants look determines how they see: Eye movements and development of object perception. Presented at the Vision Sciences Society, Sarasota, FL.

68. **Amso, D.,** & Johnson, S. P. (2003, May). Using eye movements as a measure of selective attention: Evidence from a spatial negative priming paradigm. Presented at the Vision Sciences Society, Sarasota, FL.

69. Johnson, S. P., **Amso, D.**, & Slemmer, J. A. (2003, May). Development of object concepts in infancy. Presented at the Vision Sciences Society conference, Sarasota, FL.

70. **Amso, D**., & Johnson, S. P. (2003, April). Negative priming in infancy: Implications for the development of visual attention. Presented at the biennial meeting of the Society for Research in Child Development, Tampa, FL.

71. **Amso, D.,** Slemmer, J. A., & Johnson, S. P. (2002, May). Visual attention mechanisms are sensitive to manner of occlusion. Presented at the Vision Sciences Society, Sarasota, FL.

72. 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.* Presented at the Society for Neuroscience, Miami Beach, FL.