

DIMA AMSO, Ph.D.

Associate Professor
 Director of Graduate Studies
 Department of Cognitive, Linguistic, and Psychological Sciences
 Brown University
 401-863-7652
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<http://www.brown.edu/Departments/CLPS/people/dima-amso>

EDUCATION

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|------|---|
| 2005 | New York University, NY, NY
PhD in Psychology
Dissertation Topic: Visual Attention in Infancy |
| 1999 | Tufts University, Medford, MA
BS in Psychology
<i>magna cum laude</i> |

PROFESSIONAL APPOINTMENTS

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|-------------|---|
| 2015- | Associate Professor <i>with tenure</i>
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 |

SELECTED ACADEMIC HONORS & AWARDS

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| 2017 | Mentor for women in science, Three Circles of Aemat, PEER Project of the National Academies of Science, Engineering, and Medicine |
| 2016 | National Academy of Science, Arab-American Frontiers of Science, Engineering, and Medicine Symposium Fellow |
| 2016 | College of Reviewers, National Science Foundation |
| 2016 | Science Brief, APA Psychological Science Agenda |
| 2015 | LIFE Speaker, The Global Education & Leadership Foundation |
| 2014 | Guest Editor, Special Issue <i>Developmental Cognitive Neuroscience</i> |
| 2014 | Keynote Address, Flux International Congress for Integrative Developmental Cognitive Neuroscience |
| 2012 | National Academy of Sciences <i>Keck Future Initiatives</i> Fellow |
| 2011 | ADVANCE National Science Foundation Award |

2011	James S. McDonnell Scholar Award in Understanding Human Cognition
2004	Martin Braine Fellowship in Cognition and Cognitive Development, NYU
2003	MacCracken Graduate Research Fellowship, NYU
2002	Merck Fellowship, Biology of Developmental Disorders, Cold Spring Harbor
2003	Sackler Biomedical Fellowship, Weill Medical College of Cornell University
2001-3	Sage Graduate Research Fellowship, Cornell University
1999	Priscilla M. Dunne Memorial Prize Scholarship in Psychology, Tufts University
1998	Gibran Kahlil Gibran Memorial Scholarship

RESEARCH GRANTS

Current Support

Dima Amso, PI
 NIMH R01-MH099078 (Co-PI, David Badre)
 Role of Experience in the Development of Cognitive Control and Frontal Cortex
 2012-2017
 \$1,728,019 (Direct: \$1,093,750)

Dima Amso, PI
 James S. McDonnell Scholar Award in Understanding Human Cognition
 Emergent complexity in human development: Evidence from process-oriented investigations of attention and memory
 2011-2019
 \$600,000

Dima Amso (PI)
 R21MH113870 (Co-PI, Serre)
 SmartPlayroom Technology: Naturalistic Data Collection in Young Children
 2017-2019
 \$300,00

Dima Amso (Amso Subcontract PI, Sheinkopf PI)
 Simons Foundation Autism Research Initiative
 Biomarkers of Emotion Regulation, Social Response & Social Attention in ASD
 2015-2017
 \$496,312

Hassenfeld Child Health Innovation Award (Co-PI, Bath)
 Neural Mechanisms by Which Socioeconomic Status Shapes Brain Development
 2017-2018
 \$25,000

Pending Support

Dima Amso (PI)
 R01HD087487
 Parent SES in Infancy and the Pathways To Differences in Cognitive Control by School Entry
 2017-2022

Completed Support

Dima Amso, Project 2 PI
 NIGMS P20GM103645 Center of Biomedical Research Excellence
 Development of vision and selective attention in typical and ASD individuals
 2013-2016
 \$1,505,769 (Direct: \$948,054)

Dima Amso, PI
 NIMH K01MH077993
 Development of Neural Systems Underlying Learning and Response to Novelty
 2007-2012
 \$809,958 (Direct: \$749,961)

Dima Amso, PI (co-PI Audrey Tyrka)
 Brown Institute for Brain Science/Norman Prince Neuroscience Institute New Frontiers Fund
 Developmental Response to Severe Early Stress: Neural Mechanisms of Cognitive and Behavioral
 Effects
 2014-2015 \$30,000

Awarded Student Grants

Kristen Tummeltshammer, PI (Amso, sponsor)
 NIH Ruth Kirschstein F32NRSA
 Mechanisms of learning from prediction and choice in early development

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

Kate Nussenbaum, BS candidate, CLPS (supervisor Amso)
 2013, Solsbery Undergraduate Fellowship

2016-2017 SELECTED MEDIA COVERAGE

- <http://apa.org/science/about/psa/2016/01/visual-attention.aspx>
- https://www.eurekalert.org/pub_releases/2016-10/bu-iup100216.php
- <http://www.providencejournal.com/article/20160406/NEWS/160409508>
- <https://www.brown.edu/together/articles/beyond-childs-play-researcher-builds-cutting-edge-smartplayroom>
- <http://www.providencejournal.com/news/20170416/brown-to-celebrate-women-in-sciences>

PUBLICATIONS (* Denotes student first authors)

Work in review/revision

Amso, D., Salhi, C., & Badre, D. (in review). Cognitive enrichment shapes cognitive control: a systematic resolution to competing influences on development through socioeconomic status. *Psychological Review*.

*Haas, S., Gunther, K., Amso, D., Fox, N. (in revision). The effects of emotion priming on visual search in socially anxious children and adolescents.

Righi, G., Tenenbaum, E., McCormick, C., Amso, D., & Sheingopf, S. (in review). Sensitivity to audio-visual synchrony and its relation to language abilities in children with ASD.

*Werchan, D., Baumgartner, H., Lewkowicz, D., & Amso, D. (in review). Origins of dynamic cortical organization in infancy.

*Werchan, D., Ackerman, L., Parade, S.H., Tyrka, A.R., Seifer, R., & Amso, D. (in review). Effects of early life adversity on cognitive and affective functioning in early childhood.

Journal Articles

*Nussenbaum, K. Markant, J., & Amso, D. (in press). When increasing distraction helps learning: Distractor number and content interact in their effects on memory. *Attention, Perception, & Psychophysics*.

*Tummeltshammer, K., & Amso, D. (in press). Top-down contextual knowledge guides visual attention in 6- and 10-month-old infants. *Developmental Science*.

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

*Werchan, D., & Amso, D. (in press). A novel ecological account of prefrontal cortex development, *Psychological Review*.

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.

*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*. doi: 10.1007/s10803-017-3098-0

*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*. Epub.

*Tummeltshammer, K., Amso, D., French, R., & Kirkham, N. (2016). Across space and time: Infants learn from backward and forward visual statistics. *Developmental Science*. doi: 10.1111/desc.1247

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

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

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.

*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.

*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.

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

*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*, DOI: 10.1016/j.dcn.2015.10.009.

*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.

*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.

*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.

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

- 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.
- 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.
- Frank, M.C., Amso, D., & Johnson, S.P. (2014). Visual search and attention to faces. *Journal of Experimental Child Psychology*, *118*, 13-26.
- *Markant, J. & Amso, D. (2014). Leveling the playing field: Attention mitigates the effects of IQ on memory. *Cognition*, *131*(2), 195-204.
- 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.
- Schlesinger, M., Johnson, S.J., & Amso, D. (in press, 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*. IEEE, Genoa, Italy.
- *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*, 490.
- Blumstein, S. & Amso, D. (2013). Neural plasticity and dynamic functional organization: Insights from Functional Neuroimaging. *Perspectives on Psychological Science*, *8*(1), 44-48.
- 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.
- *Markant, J. & Amso, D. (2013). Selective memories: Infants' encoding is enhanced in selection via suppression. *Developmental Science*, *16*(6), 926-40.
- 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.
- 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.
- 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.
- *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.
- 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.
- 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*. IEEE, NY, NY.

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*. IEEE, NY, NY.

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.

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.

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. & 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.

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.

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*. Sweden: Lund University Cognitive Studies.

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). Learning by selection: Visual search and object perception in young infants. *Developmental Psychology, 42*(6), 1236-45.

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

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., 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.

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

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.

Book Chapters

Amso, D. (2011). The Developmental Process: Evidence from an Integrating Science. In *Developmental Psychology* (Johan Hakansson, Ed.). Nova Science Publishers. pp.181-3.

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

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.

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.

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

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.

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, NY.

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.

Book Reviews & Commentaries

Amso, D. (in press). When do children start making long-term memories? *Scientific American Mind*.

Amso, D. & Schlaggar, B. (2016). Editorial, *Developmental Cognitive Neuroscience*.

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

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

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.

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.

Refereed Abstracts

*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 to be presented at International Congress on Integrative Developmental Cognitive Neuroscience, Portland, OR.

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

*Werchan, D. M., Baumgartner, H., Martino, R., Lewkowicz, D. & Amso, D. (2017, April). *Unisensory and Multisensory Processing in Cortex*. Poster to be presented at the Society for Research in Child Development, Austin, Texas.

*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 to be presented at the Society for Research in Child Development, Austin, Texas.

*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.

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

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

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

*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.

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

*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.

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.

*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.

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

*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.

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.

*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.

*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.

*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.

Amso, D., Haas, S., & Markant, J. (2011, November). *What Defines Saliency in Visual Orienting*. Presented at the International Society for Developmental Psychobiology, Washington, DC.

*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.

*Markant, J. & Amso, D. (2011, October). *Attention and Memory Interactions Across Development*. Presented at the Cognitive Development Society, Philadelphia, PA.

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.

*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.

*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.

*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.

*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.

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.

*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.

*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.

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, New York, NY.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Selected Symposia Talks

- 2017 Symposium on “Neurodevelopmental Mechanisms of the Achievement Gap.” *Socioeconomic status differences in cognitive development begin in infancy*. To be presented at the Association of Psychological Science, Boston, MA.
- 2017 Amso, D. (2017, January). *A SmartPlayroom for early diagnosis and classification of neurodevelopmental disorders*. 32nd Annual Mortimer D. Sackler Winter Conference in Developmental Psychobiology.
- 2017 Tummeltshammer, K., & Amso, D. (2017, January). *Contextual cueing effects on visual selective attention in 6- and 10-month-old infants*. 7th Annual CEU Conference on Cognitive Development, Budapest, Hungary.
- 2017 Chair and paper Co-Author: Symposium on “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 Symposium on “Infants’ Sensitivity to Rules, Regularities, and Cues.” *8-Month-Old Infants Create Hierarchical Rules to Support Learning and Generalization in Novel Contexts*. Accepted for presentation at the International Conference on Infant Studies, New Orleans, LA.
- 2015 Symposium on “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 Symposium on “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 Nanosymposium on “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 Symposium on “Attention”: *Attention modulates the effects of intelligence on recognition memory during the school years*. Society for Research in Child Development. Seattle, WA.
- 2013 Symposium on “Advances in Executive Functions Research.” *The development of rule-guided behavior in the transition from childhood into adolescence*. Cognitive Development Society, Memphis, TN.
- 2012 Symposium on “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 Symposium on “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, Illinois.
- 2010 *The development of learning from multiple sources: Salience, prediction, and cognitive flexibility*. International Society for Developmental Psychobiology, San Diego, CA.
- 2009 Symposium on, “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 Symposium on “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 Symposium on “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 Symposium on “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 Symposium on “BDNF, learning and development”. *Human imaging studies of BDNF, learning and development*. 22nd Annual Winter Conference, Current Issues in Developmental Psychobiology, Costa Rica.
- 2006 Symposium on “Toward a constructivist account of perceptual completion”. *Visual selection and object perception*. International Conference on Development and Learning, Bloomington, IN.
- 2005 Symposium on “Object knowledge”. *Building object knowledge from perceptual input*. Yale University, New Haven.

Selected Invited Lectures

- 2018 Invited Speaker, Department of Psychology, Yale University
- 2018 Invited Speaker, Department of Psychology, University of Tennessee
- 2017 Invited Speaker, Center for Neurobehavioral Development, University of Minnesota
- 2017 Invited Speaker, Laboratories of Cognitive Neuroscience, Harvard Medical School
- 2016 Invited Speaker, Department of Psychology, New York University, NY, NY.
- 2016 Invited Speaker, Department of Psychology, Cornell University, Ithaca, NY.
- 2016 Invited Speaker, Department of Psychology, Harvard University, Boston, MA.
- 2016 Invited Speaker, Department of Psychology, New York University, NY, NY.
- 2016 Invited Speaker, Department of Psychology, University of Indiana, Bloomington, Indiana.
- 2015 Invited Speaker, Northeastern University, Boston, MA
- 2015 COBRE-INBRE Conference Speaker, Alpert Medical School, Brown University
- 2015 Colloquium Speaker, Department of Psychology, The University of Arizona, Tuscon, AZ.

- 2015 Invited Science Seminar Series, Weil Medical College of Cornell University, NY, NY.
- 2015 LIFE Speaker, The Global Education & Leadership Foundation, NY, NY.
- 2014 Invited Keynote Address, The International Congress for Integrative Developmental Cognitive Neuroscience. Los Angeles, CA.
- 2014 Department of Psychology Developmental Talk Series, University of Connecticut, Storrs, CT
- 2014 Current Works in Behavior, Genetics, and Neuroscience talk series Yale University, New Haven, CT.
- 2014 TRI Lab: Conducting Research in Real World Settings, Brown University, Providence, RI.
- 2014 Department of Psychology, University of Massachusetts at Amherst, Amherst, MA.
- 2014 Grand Rounds, Department of Neurology, Warren Alpert Medical School, Brown University, Providence, RI.
- 2014 Department of Psychology and Center for Neural Science, Duke University. Durham, NC.
- 2014 The 2014 Mortimer D. Sackler, M.D. Summer Institute in Developmental Psychobiology, NY, NY.
- 2013 James S. McDonnell Scholar Award Meeting, Cambridge, UK.
- 2013 Bradley Hospital, Brown University, Providence, RI.
- 2013 The 2013 Mortimer D. Sackler, M.D. Summer Institute in Developmental Psychobiology, Turks & Caicos.
- 2013 Harvard Medical School, Boston Children's Hospital, Boston, MA.
- 2013 Department of Psychology, University of Massachusetts, Boston, MA.
- 2013 Sackler Institutes, Recent Advances in Infant Research: Attention and Memory in Infancy, New York, NY.
- 2011 Sackler Institutes, Weil Cornell Medical College, NY, NY.
- 2010 Brown Institute for Brain Science Brown University, Providence, RI.
- 2009 Department of Cognitive Linguistic and Psychological Sciences, Brown University, Providence, RI.
- 2009 Department of Psychology Brown Bag, Columbia University: Little mechanisms, big world, NY, NY.
- 2008 Weill Cornell Program in Neuroscience Retreat, WCMC, Cornell University, NY, NY.
- 2007 Child and Family Center, Rockefeller University, NY, NY.
- 2007 Department of Psychology, Rutgers, Newark, 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, Boston, MA.
- 2005 Department of Psychology, UMASS at Amherst, MA.
- 2005 Sackler Institute for Developmental Psychobiology, WCMC, Cornell University, NY, NY.

SELECTED SERVICE

To the Department

- 2016- Directory of Graduate Studies, CLPS Department
- 2016- Chair, CLPS Department Diversity Committee
- 2014-15 Committee Member, BIBS Cognitive Neuroscience Faculty Search
- 2014 Schlosberg/Sher Fein Award Committee
- 2010-p Psychology ScB Concentration Advisor
- 2010-p CLPS, Undergraduate Curriculum Committee
- 2012 Neuroscience Graduate Program Graduate Admissions Committee
- 2011 Whalen Award Committee
- 2011 Schlosberg/ Sher Fein Award Committee

To the University

- 2017 Neuroscience Graduate Program Steering Committee
- 2017 IMSD Selection Committee and Board, Brown University Graduate School
- 2017 Co-Organizer, *Inspiring Women in Science*, Brown University
- 2016 Faculty Affiliate, Humanitarian Innovation Initiative, Watson Institute
- 2016 Women in Science Faculty Panel
- 2015 Faculty Interviewer for Young Scholars Conference at Brown
- 2015 NIH Responsible Conduct of Research Lecture
- 2014 BIBS Neustein Graduate Fellowship Applications Reviewer
- 2014-p Magnetic Resonance Facility Scientific Advisory Board
- 2014 Brown 250th Anniversary BIBS Talk and Lab Demonstrations
- 2014 RINC Pilot Program Grant Reviewer
- 2012-p Magnetic Resonance Facility Safety Committee
- 2013-p Internal Review Board Alternate Member
- 2012-13 Sophomore advisor
- 2012 BEARCORE Speaker, Office of the Vice President for Research
- 2011 BEARCORE Program leader, Office of the Vice President for Research

Service to Scientific Community

Editorial

- 2017 Guest Editor, 50th Anniversary Special Issue of *Developmental Psychobiology*
- 2016 Editorial Board, *Developmental Science*
- 2014-2015 Guest Editor, Special Issue *Developmental Cognitive Neuroscience*
- 2014-p Neuroscience Section Editor, *Encyclopedia of Cognitive Science*
- 2014-p Consulting Editor, *Developmental Psychology*
- 2013-2017 Associate Editor, *Developmental Science*
- 2010-p Editorial Board, *Infancy*
- 2010-p Associate Editor, *Frontiers in Developmental Psychology*

Review

- 2016 National Science Foundation, Developmental & Learning Sciences, College of Reviewers
- 2016 National Institutes of Health, Sensory and Motor Neuroscience, *Cognition & Perception Fellowship* study section
- 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 Spectrum Disorders* study section
- 2015 National Institutes of Health Sensory and Motor Neuroscience, *Cognition & Perception Fellowship* study section
- 2011-15 Society for Research in Child Development Panel Reviewer
- 2007 Biological Processes Panel, International Conference on Infant Studies
- Ad hoc* Referee (selected journals): *Trends in Cognitive Sciences*, *Current Biology*, *Journal of Neuroscience*, *British Journal of Developmental Psychology*, *Child Development*, *Cognition*, *Cognitive Development*, *Developmental Psychology*, *Developmental Science*, *Infancy*, *Journal of Cognition and Development*, *Journal of Experimental Psychology: General*, *Frontiers in Developmental Psychology*, *Neuroscience*, *Journal of Cognitive Neuroscience*, *Developmental Neurobiology*, *PLOS ONE*, *Journal of Autism and Developmental Disorders*, *Journal of Vision*, *PsycCRITIQUES*

Symposia/Workshops Organized

- 2017 Organizer: Inspiring Women in Science, Brown University
- 2017 Symposium 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: 2016 Brains in Crisis: Stress and Resilience in Syrian Refugee Children, Brown University
- 2015 Co-Organizer: 2015 International Conference on Development and Learning and Epigenetic Robotics, Brown University
- 2012 Symposium Chair: “Attention and Brain Development”. Mortimer D. Sackler Winter Meeting. Oahu, Hawaii.
- 2011 Symposium Co-Chair: “Attention and memory interactions across development.” Cognitive Development Society, Philadelphia, PA.
- 2010 Symposium 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.

TEACHING

Courses

2017-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (147 enrolled)
2016-Fall	CLPS 1690: Lab in Developmental Psychology (15 enrolled)
2016-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (117 enrolled)
2015-Fall	CLPS 1620: Cognitive Developmental Neuroscience
2015-Spring	CLPS 1690: Lab in Developmental Psychology (21 enrolled)
2013-Fall	CLPS 1620: Cognitive Developmental Neuroscience (21 enrolled)
2013-Fall	CLPS 2800D: Graduate Core Topics in Developmental Psychology (4 enrolled)
2013-Spring	CLPS 1690: Lab in Developmental Psychology (12 enrolled)
2012-Fall	CLPS 1680: Developmental Disorders (17 enrolled)
2012-Spring	CLPS 0040: Brain and Mind: Introduction to Cognitive Neuroscience (80 enrolled)
2011-Fall	CLPS 1620: Cognitive Developmental Neuroscience (18 enrolled)
2011-Spring	CLPS 1690: Lab in Developmental Psychology (15 enrolled)

Undergraduate Research Independent Studies Advised

2016-2017	CLPS 1980: Benjamin Silver ('17, <i>Honors Thesis advisee</i>) CLPS 1980: Estee Feldman CLPS 1980: Margaret Barry
2015 -2016	CLPS 1980: Rebecca Patey ('16) Benjamin Silver ('17, <i>Summer UTRA awardee</i>)
2014-2015	CLPS 1980: Kate Nussenbaum ('15, <i>Honor's Thesis Advisee</i> , Rhodes Scholar) Norbert Promagan ('15, <i>Honor's Thesis Advisee</i>) Daniel Coppersmith ('15, <i>Honor's Thesis Advisee</i>) William Palmer ('15) Julio Cesar Luna ('15)
2013-2014	CLPS 1980: Analise Roland ('13) Kate Nussenbaum ('15) Lauren Beeder ('13) Vivian Carlson ('14) Dannielle John-Wiley ('13) Robin Sifre ('14) Meghan Wenzel ('14)
2012-2013	CLPS 1970: Simren Kanwal ('12)

Natasha Katoni ('12, *Honors Thesis Advisee*)
 Emily Shelkowitz ('12)
 2011-2012 CLPS 1980: James Giarraputo ('15)
 Mary Samantha English ('14)
 Natasha Katoni ('12, *Honors Thesis Advisee*)
 Hilary Tackie ('13)
 Fall 2011 CLPS 1980: Damilola Olatunji ('11)
 Nolan Broussard ('11)

Graduate/Postdoctoral Advising

Graduate Students

Lauren Emberson, PhD (Awarded 2011) Achievement: Assistant Professor, Princeton University
 Andrew Lynn (2014-) Achievement: Awarded NSF Graduate Fellowship
 Denise Werchan (2013-) Achievement: Awarded NSF Graduate Fellowship
 Haley Goodwill (2013, Rotation)

Postdoctoral Fellows

Kristen Tummultshammer (2015-p) Achievement: Awarded NRSA Postdoctoral Award
 Livia Freier (2015-p)
 Heidi Baumgartner (2014-p)
 Kerstin Unger (2013-2015)
 Elena Tenenbaum (2012-2015) Achievement: Awarded Autism Speaks Fellowship
 Julie Markant (2010-2015) Achievement: Assistant Professor, Tulane University

Graduate Committee Memberships (2011-2016)

Elena Luchkina (Thesis Committee)
 Meghan Gallo (First Year Project Committee)
 Diana Burk (Prelim Committee)
 Jie Ren (Thesis Committee)
 Boyoung Kim (Prelim Committee)
 Andrew Lynn (Prelim/Thesis Committee)
 Denise Werchan (Prelim/Thesis 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)

Lauren Emberson (Thesis Committee)

Achievement: Assistant Professor, Princeton University

Research Assistants

Juliet Davidow

Achievement: PhD, Columbia University, Postdoc Harvard

Sara Haas

Achievement: PhD candidate, University of Maryland

Laura Ackerman

Achievement: Medical Student, University of Albany

Kelley Gunther (current)

Pankaj Gupta (current)

UPDATED – 8/2017