

Juliet Y. Davidow

Curriculum Vitae, prepared January 2020

Northeastern University
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Education

2014	Ph.D. in Psychology	Columbia University
2005	B.A. in Psychology Cum Laude	New York University

Professional experience

2020-present	Assistant Professor Department of Psychology Northeastern University, Boston, MA
2015-19	Postdoctoral research fellow Department of Psychology and Center for Brain Science Harvard University, Cambridge, MA Mentor: Leah H. Somerville, Ph.D.
2012	Visiting graduate student fellow Department of Psychology University of California - Los Angeles, Los Angeles, CA Mentor: Adriana Galván, Ph.D.

Grants and funding

2016	Dean's Competitive Fund for Promising Scholarship (PI Somerville)
2011-14	National Science Foundation Graduate Research Fellowship
2009-11	Leo Rubinstein Endowed Graduate Fellowship

Professional development awards

2018	Travel Award for Annual Meeting, Society for Neuroscience
2018	Travel Award, Harvard Brain Science Initiative
2017	Best Poster, Flux International Society for Developmental Cognitive Neuroscience
2017	Travel Award for Annual Meeting, Flux International Society for Developmental Cognitive Neuroscience
2013	Mortimer D. Sackler, M.D. Summer Institute, Weill-Cornell Medical College
2012	Travel Award, Graduate School of Arts & Sciences Columbia University
2012	Summer Institute in Cognitive Neuroscience, UC Santa Barbara / UC Davis
2010	Travel Award, Kavli Institute for Brain Sciences Columbia University
2010, 2011	Travel Award, Psychology Department Columbia University

Publications

* denotes equal authorship

Davidow, J.Y., Sheridan, M.A., Van Dijk, K.R.A., Santillana R.M., Snyder J., Vidal Bustamante, C.M., Rosen, B., & Somerville, L.H. (2019) Development of prefrontal cortical connectivity and the enduring effect of learned value on cognitive control. *Journal of Cognitive Neuroscience*, 31(1), 64-77.

Braams B.R., **Davidow, J.Y.**, & Somerville L.H. (2019) Developmental patterns of change in the influence of safe and risky peer choices on risky decision making. *Developmental Science*, 22(1), e12717.

Shermohammed, M., **Davidow, J.Y.**, Somerville, L.H., & Murty, V. (2019) Stress impacts the fidelity but not strength of emotional memories. *Brain and Cognition*, 133, 33-41.

Davidow, J.Y.*, Insel, C.*, & Somerville, L.H. (2018) Adolescent development of value-guided goal pursuit. *Trends in Cognitive Science*, 22(8), 725-736.

Gerraty, R.T., **Davidow, J.Y.**, Foerde, K., Galván, A., Bassett, D.S., & Shohamy, D. (2018) Dynamic flexibility in striatal-cortical circuits supports reinforcement learning. *Journal of Neuroscience*, 38(10), 2442-2453.

Powers, K.E., Yaffe, G., Hartley, C.A., **Davidow, J.Y.**, Kober, H.*, & Somerville, L.H.* (2018) Consequences for peers differentially bias computations about risk from adolescence to adulthood. *Journal of Experimental Psychology: General*, 147(5), 671-682.

Davidow, J.Y., Foerde, K., Galván, A., & Shohamy, D. (2016) An upside to reward sensitivity: The hippocampus supports enhanced reinforcement learning in adolescence. *Neuron*, 92(1), 93-99.

Gerraty, R.T.*, **Davidow, J.Y.***, Wimmer, G.E., Kahn, I., & Shohamy, D. (2014) Transfer of learning relates to intrinsic connectivity between hippocampus, ventromedial prefrontal cortex, and large-scale networks. *Journal of Neuroscience*, 34(34), 11297-11303.

Teslovich, T., Friedl, E., Kostro, K., Weigel, J., **Davidow, J.Y.**, Riddle, M., Rosenbaum, M., Walsh, B.T., Casey, B.J., & Mayer, L. (2014). Probing behavioral responses to food: Development of a food-specific go/no-go task. *Psychiatry Research*, 219(1), 166-170.

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

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, 1-7.

Johnson, S.P., **Davidow, J.Y.**, Hall-Haro, C., & Frank, M.C. (2008). Development of perceptual completion originates in information acquisition. *Developmental Psychology*, 44(5), 1214-1224.

Manuscripts

Rodriguez-Thompson, A.M., Meyer, K., **Davidow, J.Y.**, Van Dijk, K.R.A., Santillana R.M., Snyder J., Vidal Bustamante, C.M., Hollinshead, M.O, Rosen, B.R., Somerville, L.H., & Sheridan, M.A. (submitted) Examining cognitive control and reward interactions in adolescent externalizing symptoms.

Siless, V., **Davidow, J.Y.**, Nielsen, J., Fan, Q., Hedden, T., Hollinshead, M.O., Beam, E., Vidal Bustamante, C.M., Garrad, M.C., Santillana R.M., Smith, E.E., Hamadeh, A., Snyder J., Drews, M.K., Van Dijk, K.R.A., Sheridan, M.A., Somerville, L.H., & Yendiki, A. (submitted) Registration-free analysis of diffusion MRI tractography data across subjects through the human lifespan.

Meyer, K., **Davidow, J.Y.**, Van Dijk, K.R.A., Santillana R.M., Snyder J., Vidal Bustamante, C.M., Hollinshead, M.O. Rosen, B.R., Somerville, L.H., & Sheridan, M.A. (in revision) History of conditioned reward association disrupts inhibitory control: An examination of neural correlates.

Chapters

Insel, C., **Davidow, J.Y.**, & Somerville, L.H. (in press). Neurodevelopmental processes that shape the emergence of value-guided goal directed behavior. Forthcoming in *The Cognitive Neurosciences VI* (Gazzaniga, Mangun, & Poeppel, Eds.).

Invited talks

** received honorarium*

- Invited* Michael S. Goodman ‘74 Memorial Seminar Series, Brown University
2020 Title TBD
- 2019 *Learning and the Brain® Education Conferences, Boston, Massachusetts
Adolescent learning and goal-directed behavior
- 2019 Casey Fundamentals of the Adolescent Brain Lab, Yale University
Adolescent learning and goal-directed behavior: Advantages and challenges of a developing brain
- 2019 *Spring School on Cognitive-Affective Neuroscience, Dresden Technical University
Adolescent learning and goal-directed behavior: Advantages and challenges of a developing brain
- 2019 Fetal-Neonatal Neuroimaging & Developmental Science Center, Boston Children's Hospital
Adolescent learning and goal-directed behavior: Advantages and challenges of a developing brain
- 2019 Departmental Colloquium, Northeastern University
Adolescent learning and goal-directed behavior: Advantages and challenges of a developing brain
- 2018 Departmental Colloquium, Florida International University
Adolescent learning and goal-directed behavior: Advantages and challenges of a developing brain
- 2018 Women in Psychology Trends in Psychology Summit, Harvard University
The influence of value learning on the development of goal-directed inhibitory control
- 2018 New England Research on Decision-Making Conference, Harvard University
Attenuated Pavlovian interference on instrumental learning in adolescents
- 2017 New England Research on Decision-Making Conference, Brown University
The development of cognitive control for learned value associations
- 2017 Cognitive Neuroscience Society Annual Meeting, Invited Symposium
Multiple learning systems in the adolescent brain
- 2017 Schacter Memory Lab, Harvard University
Learning and memory interactions in adolescence
- 2015 Sackler Institute 20th Anniversary Symposium, Weill Cornell Medical College
Learning and memory interactions in adolescence
- 2015 Cognition Brain and Behavior Area Research Seminar, Harvard University
Learning and memory interactions in adolescence
- 2014 Kober Clinical & Affective Neuroscience Lab, Yale University
Adolescent development of multiple memory systems
- 2014 Sackler Institute Science Symposium, Weill Cornell Medical College
Learning and decision-making in adolescence
- 2014 Manhattan Area Memory Meeting, New York University
Multiple learning systems in adolescence
- 2014 Somerville Affective Neuroscience & Development Lab, Harvard University
Adolescent learning and decision-making
- 2014 Samanez-Larkin Motivated Cognition & Aging Brain Lab, Yale University
Adolescent learning and decision-making

Conference talks

Davidow, J.Y., Sheridan, M.A., Van Dijk, K.R.A., Santillana, R.M., Snyder, J., Vidal Bustamante, C.M., Rosen, B., & Somerville, L.H. (2019) Development of prefrontal cortical connectivity and the enduring effect of learned value on cognitive control. *Society for Research in Child Development, Baltimore, Maryland, USA.*

Davidow, J.Y., Sheridan, M.A., Van Dijk, K.R.A., Santillana, R.M., Snyder, J., Vidal Bustamante, C.M., Rosen, B., & Somerville, L.H. (2018) Development of prefrontal cortical connectivity and the enduring effect of learned value on cognitive control. *Society for Neuroscience Nanosymposium, San Diego, California, USA.*

Davidow, J.Y., Bhui, R., Insel, C., Brandt, A., & Somerville, L.H. (2018) Attenuated Pavlovian learning biases in adolescence. *Flux International Society for Developmental Cognitive Neuroscience Flash-talk, Berlin, Germany.*

Davidow, J.Y., Foerde, K.F., Galván, A., & Shohamy, D. (2014) Multiple learning systems in adolescence. *Society for Neuroscience Nanosymposium, Washington, DC, USA.*

Davidow, J.Y., & Johnson, S.P. (2005) How do pre-readers perceive letters? An eye-tracking study. *NYU Undergraduate Research Conference, New York, New York, USA.*

Conference poster presentations

Davidow, J.Y., Bhui, R., Insel, C., Brandt, A.M., & Somerville, L.H. (2019) Individual differences in Pavlovian interference on reinforcement learning relates to better subsequent inhibitory control. *Social and Affective Neuroscience Society, Miami, Florida, USA.*

Davidow, J.Y., Sheridan, M.A., Van Dijk, K.R.A., Santillana, R.M., Snyder, J., Vidal Bustamante, C.M., Rosen, B., & Somerville, L.H. (2018) Development of prefrontal cortical connectivity and the enduring effect of learned value on cognitive control. *Society for Neuroscience, San Diego, California, USA. *For Travel Award recipient session.*

Davidow, J.Y., Bhui, R., Insel, C., Brandt, A.M., & Somerville, L.H. (2018) Attenuated Pavlovian learning biases in adolescence. *Flux International Society for Developmental Cognitive Neuroscience, Berlin, Germany.*

Davidow, J.Y., Bhui, R., Insel, C., & Somerville, L.H. (2018) Attenuated Pavlovian learning biases in adolescence. *Social & Affective Neuroscience Society, New York, New York, USA.*

Davidow, J.Y., Insel, C., Romero, M., Zhang, J., & Somerville, L.H. (2017) Twice as nice: Learning interactions between valence and action in adolescence. *Flux International Society for Developmental Cognitive Neuroscience, Portland, Oregon, USA. *Best poster award.*

Davidow, J.Y., Van Dijk, K.R.A., Snyder, J., Vidal Bustamante, C.M., Sheridan, M.A., & Somerville, L.H. (2016) Adaptive adjustment in cognitive control over reward in adolescence. *Society for Neuroscience, San Diego, California, USA.*

Davidow, J.Y., Van Dijk, K.R.A., Snyder, J., Vidal Bustamante, C.M., Sheridan, M.A., & Somerville, L.H. (2016) Adaptive adjustment in cognitive control over reward in adolescence. *Flux International Society for Developmental Cognitive Neuroscience, St. Louis, Missouri, USA.*

Davidow, J.Y., Foerde, K.F., Galván, A., & Shohamy, D. (2014) Multiple learning systems in adolescence. *Flux International Society for Developmental Cognitive Neuroscience, Los Angeles, California, USA.*

Davidow, J.Y., Foerde, K.F., Galván, A., & Shohamy, D. (2014) Multiple learning systems in adolescence. *Cognitive Neuroscience Society, Boston, Massachusetts, USA.*

Davidow, J.Y., Foerde, K. F., Galván, A., & Shohamy, D. (2013) How feedback timing modulates learning in adolescence. *Society for Neuroscience, San Diego, California, USA.*

Davidow, J.Y., Foerde, K.F., Galván, A., & Shohamy, D. (2013) Learning from delayed feedback in adolescence. *Society for Research in Child Development, Seattle, Washington, USA.*

Davidow, J.Y., Foerde, K.F., Galván, A., & Shohamy, D. (2013) How feedback timing modulates learning in adolescence. *Cognitive Neuroscience Society, San Francisco, California, USA.*

Davidow, J.Y., Wimmer, G.E., Kahn, I., & Shohamy, D. (2012) Differences in functional connectivity in reward learning networks at rest. *Society for Neuroscience, New Orleans, Louisiana, USA.*

Davidow, J.Y., Wimmer, G.E., Deliz, J., Kahn, I., & Shohamy, D. (2012) Intrinsic functional connectivity reflects the effects of reward on multiple learning systems. *Cognitive Neuroscience Society, Chicago, Illinois, USA.*

Davidow, J.Y., Deliz, J., Alba, E., Kahn, I., & Shohamy, D. (2011) The development of multiple forms of learning during adolescence. *Society for Neuroscience, Washington, DC, USA.*

Davidow, J.Y., Alba, E., Deliz, J., Kahn, I., & Shohamy, D. (2011) Learning and memory in adolescence: Feedback-based learning and flexible generalization. *Cognitive Neuroscience Society, San Francisco, California, USA.*

Davidow, J.Y., Kahn, I., & Shohamy, D. (2010). The ability to learn and generalize knowledge is related to intrinsic interactions between multiple memory systems during rest. *Society for Neuroscience, San Diego, California, USA.*

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

Mentoring and trainee awards on supervised projects

- 2020- Jingwen Ren, undergraduate Co-op Lab Manager (Northeastern University)
- 2020- Ian O'Shea, undergraduate Directed Study (Northeastern University)
- 2019 Sushmita Sadhukha, professional development (Dartmouth College)
- 2018 Amma Ababio, undergraduate research assistant (Harvard University)
Recipient of Harvard College BLISS fellowship
- 2018 Linghua Jiang, undergraduate research assistant (Harvard University)
Recipient of Harvard College HCRP fellowship
- 2018 Samantha Collins, high school student (Mary Lyon Pilot Public High School)
Recipient of Harvard Public School Partnerships Lab Apprentice fellowship
- 2017-18 Amanda Brandt, undergraduate research assistant (Harvard University)
- 2017 Miwako Chimura, undergraduate research assistant (Bunker Hill Community College).
Recipient of outreach fellowship on PI Somerville NSF-CAREER Award
- 2016 Joan Zhang, undergraduate research assistant (Harvard University)
- 2016 Marilyn Romero, undergraduate research fellow (Smith College)
Recipient of Praxis Summer Intern Fellowship award
- 2015-16 Constanza Vidal Bustamante, undergraduate honors thesis student (Harvard University).
Thesis manuscript awards: Psychology Faculty Prize. Nominated for Hoopes Prize. Best poster,
Undergraduate Research Poster Session, Conte Center at the Center for Brain Science.
- 2013-14 Camilla van Geen, high school student (Lycee Francais Private High School) and
undergraduate research assistant (Columbia University)
- 2012-13 Kathy Do, undergraduate research assistant (UCLA)

- 2010-13 Juan Deliz, undergraduate research assistant (Columbia University)
Recipient of Columbia Undergraduate Scholars Program Summer Enhancement Fellowship for Research Assistants 2011 & 2012
- 2010-12 Michael Gellman, high school student (Bronx Science Public High School)
Semi-Finalist in 2012 Intel International Science and Engineering Fair
- 2010-12 Eva Alba, undergraduate research assistant (Columbia University)
- 2010 Elizabeth LaMarca, undergraduate research assistant (Columbia University)
- 2010 Carly Solon, undergraduate research assistant (Columbia University)

Teaching experience

- 2020 Guest lecturer
Psychologists, Engineers, and Neuroscientists Group
Northeastern University
- 2020 Guest lecturer
Undergraduate Interdisciplinary Honors Seminar, Instructor: Lauren Raine
Northeastern University
- 2020 Supervisor
Directed Study
Northeastern University
- 2014 Co-Instructor (lecturer, lab section instructor)
Science of Psychology, Summer High School Program
Columbia University
- 2014 Teaching assistant, lab section instructor
Experimental Psychology, under Patricia Lindemann
Columbia University
- 2013 Teaching assistant, guest lecturer
Mind, Brain & Behavior, under Daphna Shohamy
Columbia University
- 2012 Teaching assistant
Abnormal Behavior, under E'mett McCaskill
Columbia University
- 2011 Teaching assistant, guest lecturer
Developmental Psychology, under Lois Putnam
Columbia University
- 2010 Teaching assistant
Science of Psychology, under Brian Rakitin
Columbia University

Other teaching experience

- 2016 FMRI Methods
Developed fMRI analysis methods 2-day course (lectures, practical workshops)
University of North Carolina at Chapel Hill
- 2016-18 Psychology Research Methods
Developed summer term course for Research Assistants (lectures, practical workshops)
Harvard University

Other professional experience

- 2006-09 Research assistant
Sackler Institute for Developmental Psychobiology
Weill Cornell Medical College, New York, NY
Mentors: Dima Amso, Ph.D. and BJ Casey, Ph.D.
- 2005-06 Lab manager
Infant Perception and Cognition Lab
New York University, New York, NY
Mentor: Scott Johnson, Ph.D.

2004 Volunteer clinical assistant
Alternative Adolescent Day Program and
Comprehensive Addictions Program for Adolescents
St. Luke's-Roosevelt Hospital, New York, NY
Mentor: Shilpa Taufique, Ph.D.

Public outreach and popular press coverage

2019 Science by the Pint (Harvard GSAS/Medical School), The Burren in Somerville, MA
2016 Press *re* Davidow, et al 2016: BBC, NPR, New York Magazine, Science News for
Students, BOLD Blog, Cerveau and Psycho (Scientific American Mind, France)
2016 Workshop: Research w/ fMRI, Public High School, 60 students, Newton, MA
2015 Workshop: Adolescent Brain Development, Codman Academy Charter Public
School, 45 9th grade students, Dorchester, MA
2012, 2014 Interactive demonstration: Science Expo at The School at Columbia, approx.
200 students K-8th grade, New York, NY
2011 Workshop on Neuroscience and Education: Presentation to parents of students at
The Calhoun School, New York, NY, private progressive school for pre-K-12th grade
2010 Alumni Fundraising Event, Endowed Student Fellow Speaker, Columbia University

Service

2019 Postdoctoral representative for Visiting Committee evaluation
Harvard University, Psychology Department
2019 Paper Symposium Discussant, Session on Reward and Cognition Interactions in
Adolescence and Emerging Adulthood
Society for Research in Child Development
2018 Invited Symposium Chair, Session on Motivation
Flux International Society for Developmental Cognitive Neuroscience
2014 Nanosymposium Organizer, Chair, Presenter
Society for Neuroscience
2013 Program Co-Organizer
Manhattan Area Memory Meeting
2012, 2013 Program Co-Organizer, Faculty Advice Panel
Columbia University
2012, 2013 Department Affairs Chair
Scientista Foundation for Women in STEM, Columbia University Chapter
2011, 2012 Student Organizer, Psych Grad Students Big Brothers/Sisters
Columbia University
2011, 2012 Student Co-Organizer, Recruitment Program for Prospective PhD Students
Columbia University Doctoral Program in Psychology

Society memberships

Cognitive Neuroscience Society
 Flux International Society for Developmental Cognitive Neuroscience
 Social and Affective Neuroscience Society
 Society for Neuroscience
 Society for Research in Child Development

Reviewer*Journals*

Cerebral Cortex
 Child Development
 Cognition
 Developmental Cognitive Neuroscience
 Journal of Cognitive Neuroscience
 Journal of Experimental Child Psychology
 Journal of Experimental Psychology: General
 Journal of Neuroscience
 NeuroImage
 npj Science of Learning
 PLoS Computational Biology
 Proceedings of the Royal Society B
 Social Cognitive and Affective Neuroscience

Grants

Sir Henry Wellcome Postdoctoral Fellowship

Training courses, workshops, and professional development symposia

2019	Responsible Conduct of Research Training, Harvard University
2016	Affective Neuroscience Symposium, Dartmouth College
2013	Reinforcement Learning and Decision Making, Princeton University
2012	Statistics for fMRI, Columbia University
2011	Network Analysis: Functional Connectivity, Massachusetts General Hospital
2010	Analysis and Function of Large-Scale Brain Networks, Society for Neuroscience Short Course
2010	Workshop in Multivariate Pattern Analysis in fMRI, Columbia University
2009	Goal-Directed Decision Making: Behavior, Neuroscience and Computation, Princeton University
2009	fMRI Image Acquisition and Analysis Course, Mind Research Network, University of New Mexico and Columbia University
2009	AFNI Bootcamp fMRI Analysis Course, NIMH at Dartmouth University
2007, 2009	John Merck Fund Summer Institute on the Biology of Developmental Disabilities, Weill-Cornell Medical College and Cornell University