

## Leah H. Somerville

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### Academic Appointments

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|--------------|---|
| 2016-Present | Associate Professor of Psychology<br>Core Faculty, Center for Brain Science<br>Harvard University |
| 2012-2016    | Assistant Professor of Psychology<br>Core Faculty, Center for Brain Science<br>Harvard University |

### Education & Training

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|-----------|---|
| 2008-2012 | Postdoctoral Fellow, Developmental Cognitive Neuroscience<br>Sackler Institute for Developmental Psychobiology<br>Weill Cornell Medical College |
| 2003-2008 | Ph.D., Psychology<br>Dartmouth College  |
| 1997-2001 | Bachelor of Science <i>summa cum laude</i> , Psychology<br>University of Wisconsin-Madison  |

### Honors & Awards

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|------|---|
| 2017 | Young Investigator Award<br><i>Cognitive Neuroscience Society</i>   |
| 2016 | Everett Mendelsohn Excellence in Mentoring Award<br><i>Harvard University Graduate School of Arts &amp; Sciences</i>                    |
| 2014 | F. J. McGuigan Early Career Investigator Research Prize on Understanding the<br>Human Mind<br><i>American Psychological Association</i> |
| 2014 | Janet T. Spence Award for Transformative Early Career Contributions<br><i>Association for Psychological Science</i>                     |
| 2013 | Certificate of Distinction, Star Family Prizes for Excellence in Advising<br><i>Harvard College</i>                                     |

2013	Rising Star Award <i>Association for Psychological Science</i>
2011	Samuel W. Perry, III MD Distinguished Award in Psychiatric Medicine <i>Weill Cornell Medical College</i>
2010	Conference Travel Award <i>Organization for Human Brain Mapping</i>
2010	Career Development Award <i>Anxiety Disorders Association of America</i>
2008	Summer Institute in Cognitive Neuroscience Fellowship, Lake Tahoe, CA
2008	Hannah Croasdale Graduate Scholar Award (college-wide dissertation award) <i>Dartmouth College</i>
2007	Summer Institute in Cognitive Neuroscience Fellowship, Santa Barbara, CA
2001	<i>Phi Beta Kappa</i>

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**Publications** (downloadable at <http://andl.wjh.harvard.edu>)

◦ indicates trainee co-author

**In press**

1. Nook, E.K.<sup>◦</sup>, Schleider, J.S., & Somerville, L.H. (in press). A linguistic signature of spontaneous distancing in emotion regulation. *Journal of Experimental Psychology: General*.
2. Somerville L.H. & McLaughlin K.A. (in press). What develops during emotional development? Normative trajectories and sources of psychopathology risk in adolescence. In R.J. Davidson, A. Fox, & R. Lapate, & A.J. Shackman, *The Nature of Emotion*, 2<sup>nd</sup> Edition. Oxford: Oxford University Press.
3. Somerville L.H., Sasse S.F.<sup>◦</sup>, Garrad M.C.<sup>◦</sup>, Drysdale A.T., Abi Akar N.<sup>◦</sup>, Insel C.<sup>◦</sup>, & Wilson R.C. (in press). Charting the expansion of strategic exploratory behavior during adolescence. *Journal of Experimental Psychology: General*.

**2016**

4. Casey B.J., Galván, A., & Somerville L.H. (2016). Beyond simple models of adolescence to an integrated circuit-based account. *Developmental Cognitive Neuroscience*, 17, 128-130.
5. Defoe I.N.<sup>◦</sup>, Dubas J., Somerville L.H., Lugtig P., & van Aken M.A.G. (2016). The unique roles of intrapersonal and social factors in adolescent smoking development. *Developmental Psychology*, 52(12), 2044-2056.
6. Fan Q., Witzel T., Nummenmaa A., Van Dijk K.R.A., Van Horn J.D., Drews M.K., Somerville L.H., Sheridan M.A., Santillana R., Snyder J., Hedden T., Shaw E.E., Renvall V., Zanzonico R., Keil B., Cauley S., Polimeni J.R., Tisdall D., Buckner R.L., Wedeen V.J., Wald L.L., Toga A.W., & Rosen B.R. (2016). MGH-USC Human Connectome Project datasets with ultra-high *b*-value diffusion MRI. *Neuroimage*, 124(1), 1108-1114.

7. Powers K.E.<sup>o</sup>, Somerville L.H., Kelley, W.M., & Heatherton T.F. (2016). Social value enhances prediction error signaling and subsequent learning. *Journal of Cognitive Neuroscience*, 28(9), 1243-1254.
8. Rasmussen J., Casey B.J., van Erp T.G.N., Tamm L., Epstein J.N., Buss C., Bjork J.M., Molina B.S.G., Velanova K., Mathalon D.H., Somerville L.H., Swanson J.M., Wigal T., Arnold L.E., & Potkin S. (2016). ADHD and cannabis use in young adults examined using fMRI of a Go/NoGo task. *Brain Imaging and Behavior*, 10, 761-771.
9. Somerville, L.H. (2016). Searching for signatures of brain maturity: What are we searching for? *Neuron*, 92(6), 1164-1167.
10. Somerville, L.H. (2016). Systems neuroscience: The balancing act of behavioral regulation. Dispatch for Meyer & Bucci, *Current Biology*, 26(20), R925-R926.
11. Somerville L.H. (2016). Emotional development in adolescence. In L. F. Barrett, M. Lewis, & J. M. Haviland-Jones, *Handbook of Emotion*, 4<sup>th</sup> Edition. New York: Guilford Press.
12. van den Bulk B.G.<sup>o</sup>, Somerville L.H., van Hoof M.-J., van Lang N.D.J., van der Wee, N.J.A., Crone E.A., & Vermeiren R.R.J.M. (2016). Amygdala habituation to emotional faces in adolescents with internalizing disorders, adolescents with childhood sexual abuse related PTSD, and healthy adolescents. *Developmental Cognitive Neuroscience*, 21, 15-25.

## 2015

13. Hartley C.A. & Somerville L.H. (2015). The neuroscience of adolescent decision-making. *Current Opinion in Behavioral Sciences*, 5, 108-115.
14. McLaughlin K.A., Garrad M.C.<sup>o</sup>, & Somerville L.H. (2015). What's developing during emotional development? A component process approach to identifying sources of psychopathology risk in adolescence. *Dialogues in Clinical Neuroscience*, 17, 403-410.
15. van Duijvenvoorde A.C.K., Huizenga H.M., Somerville L.H., Delgado M.R., Powers A., Weeda W. D., Casey B.J., Weber E.U., & Figner B. (2015). Neural correlates of expected risks and returns in risky choice across development. *Journal of Neuroscience*, 35(4), 1549-1560.

## 2014

16. Braver T.S., Krug M.K., Chiew K.S., Kool W., Westbrook J.A., Clement N.J., Adcock R.A., Barch D.M., Botvinick M.M., Carver C.S., Cools R., Custers R., Dickinson A., Dweck C.S., Fishbach A., Gollwitzer P.M., Hess T.M., Isaacowitz D.M., Mather M., Murayama K., Pessoa L., Samanez-Larkin G.R., & Somerville L.H. (2014). Mechanisms of motivation-cognition interaction: Challenges and opportunities. *Cognitive, Affective, and Behavioral Neuroscience*, 14, 443-472.
17. Dreyfuss M., Caudle K., Drysdale A.T., Johnston N.E., Cohen A.O., Somerville L.H., Galván A., Tottenham N., Hare T.A., & Casey B.J. (2014). Teens impulsively react rather than retreat from threat. *Developmental Neuroscience*, 36(3-4), 220-227.

18. Drysdale A.T., Hartley C.A., Pattwell S.S., Ruberry E.J., Somerville L.H., Compton S.N., Lee F.S., Casey B.J., & Walkup J.T. (2014). Fear and anxiety from principle to practice: Implications for when to treat youth with anxiety disorders. *Biological Psychiatry*, *75*(11), e19-20.
19. Jones R.M., Somerville L.H., Li J., Ruberry E.J., Powers A., Mehta N.<sup>o</sup>, Dyke J., & Casey B.J. (2014). Adolescent-specific patterns of behavior and neural activity during social reinforcement learning. *Cognitive, Affective, & Behavioral Neuroscience*, *14*, 683-697.
20. Somerville L.H., van den Bulk B.G.<sup>o</sup>, & Skwara A.C.<sup>o</sup> (2014). Response to: The triadic model perspective for the study of adolescent motivated behavior. *Brain and Cognition*, *89*, 112-113.
21. Somerville L.H. & Casey B.J. (2014). Emotional reactivity and regulation across development. In M. Gazzaniga & R. Mangun (Eds.), *The Cognitive Neurosciences V*. Cambridge, MA: MIT Press.
22. Teslovich T., Mulder M., Franklin N. T., Ruberry E.J., Millner A., Somerville L.H., Simen P., Durston S., & Casey, B.J. (2014). Adolescents let sufficient evidence accumulate before making a decision when large incentives are at stake. *Developmental Science*, *17*(1), 59-70.

### 2013

23. Powers K.E.<sup>o</sup>, Somerville L.H., Kelley W.M., & Heatherton T.F. (2013). Rejection sensitivity polarizes striatal-medial prefrontal activity when anticipating social feedback. *Journal of Cognitive Neuroscience*, *25*(11), 1887-1995.
24. Somerville L.H. (2013). The teenage brain: Sensitivity to social evaluation. *Current Directions in Psychological Science*, *22*(2), 129-135.
25. Somerville L.H., Wagner D.D., Wig G.S., Moran J.M., Whalen P.J., & Kelley W.M. (2013). Interactions between transient and sustained neural signals support the generation and regulation of anxious emotion. *Cerebral Cortex*, *23*(1), 49-60.
26. Somerville L.H., Jones R.M., Ruberry E.J., Dyke J.P., Glover, G., & Casey B.J. (2013). Medial prefrontal cortex and the emergence of self-conscious emotion in adolescence. *Psychological Science*, *24*(8), 1554-1562.

### 2011

27. Casey B.J., Jones R.M., & Somerville L.H. (2011). Braking and accelerating of the adolescent brain. *Journal of Research on Adolescence: A Decade in Review*, *21*(1), 21-33.
28. Casey B.J., Somerville L.H., Gotlib I.H., Ayduk O., Franklin N.T., Askren M.K., Jonides J., Berman M.G., Wilson N.L., Teslovich T., Glover G., Zayas V., Mischel W., & Shoda Y. (2011). Behavioral and neural correlates of delay of gratification 40 years later. *Proceedings of the National Academy of Sciences, USA*, *108*(36), 14988-15003.
29. Davis F.C., Somerville L.H., Ruberry E.J., Berry A., Shin L.M., & Whalen P.J. (2011). A tale of two negatives: Differential memory modulation by threat-related facial expressions. *Emotion*, *11*(3), 647-655.

30. Jones R.M., Somerville L.H., Li J., Ruberry E.J., Libby V., Glover G., Voss H.U., Ballon D.J., & Casey B.J. (2011). Behavioral and neural properties of social reinforcement learning. *Journal of Neuroscience*, 31(37), 13039-13045.
31. Somerville L.H. & Casey B.J. (2011). Response to Moshman, "Adolescents and their teenage brains." *Human Development*, 54(4), 1-17.
32. Somerville L.H., Fani N., & McClure-Tone E.B. (2011). Behavioral and neural representation of emotional facial expressions across the lifespan. *Developmental Neuropsychology*, 36(4), 1-22.
33. Somerville L.H.\*, Hare T.A.\*, & Casey B.J. (2011). Frontostriatal maturation predicts behavioral regulation failures to appetitive cues in adolescence. *Journal of Cognitive Neuroscience*, 23(9), 2123-2134. \*Equal contribution

## 2010

34. Casey B.J., Jones R.M., Levita L., Libby V., Pattwell S., Ruberry E.J., Soliman F.A., & Somerville L.H. (2010). The storm and stress of adolescence: Insights from human imaging and mouse genetics. *Developmental Psychobiology*, 52(3), 225-235.
35. Soliman F., Glatt C.E., Levita L., Bath K.G., Jones R.M., Pattwell S.S., Tottenham N., Somerville L.H., Voss H.U., Glover G., Ballon D.J., Lee F.S., & Casey B.J. (2010). A genetic variant BDNF (Val66Met) polymorphism alters extinction learning in both mouse and human. *Science*, 327, 863-866.
36. Somerville L.H. & Casey B.J. (2010). Developmental neurobiology of cognitive control and motivational systems. *Current Opinion in Neurobiology*, 20(2), 1-6.
37. Somerville L.H., Jones R.M., & Casey B.J. (2010). A time of change: Behavioral and neural correlates of adolescent sensitivity to appetitive and aversive environmental cues. *Brain & Cognition*, 72(1), 124-133.
38. Somerville L.H., Kelley W.M., & Heatherton T.F. (2010). Self-esteem modulates medial prefrontal cortical responses to evaluative social feedback. *Cerebral Cortex*, 20(12), 3005-3013.
39. Somerville L.H., Whalen P.J., & Kelley W.M. (2010). Human bed nucleus of the stria terminalis indexes hypervigilant threat monitoring. *Biological Psychiatry*, 68(5), 416-424.

## 2009 and prior

40. Aminoff E.M., Balslev D., Borroni P., Bryan R.E., Chua E.A., Cloutier J., Cross E.S., Drew T., Funk C.M., Gil-da-Costa R., Guerin S.A., Hall J.L., Jordan K.E., Landau A.N., Molnar-Szakacs I., Montaser-Kouhsari L., Olofsson J.K., Quadflieg S., Somerville L.H., Sy J.L., Uddin L.Q., & Yamada M. (2009). The landscape of cognitive neuroscience: Challenges, rewards, and new perspectives. In M. Gazzaniga (Ed.), *The New Cognitive Neurosciences*, 4<sup>th</sup> Edition. Cambridge, MA: MIT Press.
41. Whalen P.J., Johnstone T., Somerville L.H., Nitschke J.B., Polis S.A., Alexander A.L., Davidson R.J., & Kalin N.H. (2008). A functional magnetic resonance imaging predictor of treatment response to venlafaxine in generalized anxiety disorder. *Biological Psychiatry*, 63(9), 858-863.

42. Somerville L.H., Heatherton T.F., & Kelley W.M. (2006). Anterior cingulate cortex responds differentially to expectancy violation and social rejection. *Nature Neuroscience*, 9(8), 1007-1008.
43. Somerville L.H. & Whalen P.J. (2006). Prior experience as a stimulus category confound: An example using facial expressions of emotion. *Social, Cognitive, and Affective Neuroscience*, 1, 271-274.
44. Somerville L.H., Wig G.S., Whalen P.J., & Kelley W.M. (2006). Dissociable medial temporal lobe contributions to social memory. *Journal of Cognitive Neuroscience*, 18(8), 1253-1265.
45. Johnstone T., Somerville L.H., Alexander A.L., Davidson R.J., Kalin N.H., & Whalen P.J. (2005). Stability of amygdala BOLD response to fearful faces over multiple scan sessions. *Neuroimage*, 25(4), 1112-1123.
46. Kim H., Somerville L.H., Johnstone T., Polis S., Alexander A.L., Shin L.M., & Whalen P.J. (2004). Contextual modulation of fMRI responsivity to surprised faces. *Journal of Cognitive Neuroscience*, 16(10), 1730-1745.
47. Whalen P.J., Kagan J., Cook R.G., Davis F.C., Kim H., Polis S., McLaren D.L., Somerville L.H., McLean A.A., Maxwell J.S., & Johnstone T. (2004). Human amygdala responsivity to masked fearful eye-whites. *Science*, 306(5704), 2061.
48. Kim H., Somerville L.H., Johnstone T., Alexander A.L., & Whalen P.J. (2003). Inverse amygdala and medial prefrontal cortex responses to surprised faces. *Neuroreport*, 14(18), 2317-2322.
49. Kim H., Somerville L.H., McLean A.A., Johnstone T., Shin L.M., & Whalen P.J. (2003). Functional MRI responses of the human dorsal amygdala/substantia innominata region to facial expressions of emotion. *Annals of the New York Academy of Sciences*, 985, 533-535.
50. Whalen P.J., Shin L.M., Somerville L.H., McLean A.A., & Kim H. (2002). Functional neuroimaging studies of the amygdala in depression. *Seminars in Clinical Neuropsychiatry*, 7(4), 234-242.

## Research Grants

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2016-2021	National Institutes of Health U01 <i>Mapping the human connectome during typical development</i> <i>Mapping the human connectome during typical development longitudinal supplement</i> Role: Co-Principal Investigator (with David van Essen, Deanna Barch, Susan Bookheimer, Randy Buckner, Mirella Dapretto, Stephen Smith, Kathleen Thomas, Essa Yacoub) Amount awarded: \$16,500,000
2016-2019	Harvard Dean's Competitive Fund for Promising Scholarship Seed Grant <i>The neurodevelopment of flexible decision making in adolescents</i> Role: Co-Principal Investigator (with postdoctoral fellow Juliet Davidow) Amount awarded: \$32,090

- 2016-2018 Brain & Behavior Research Foundation NARSAD Young Investigator Award  
*Prospective identification of brain connectivity patterns distinguishing psychopathology risk trajectories during adolescence*  
Role: Principal Investigator  
Amount awarded: \$69,480
- 2016-2018 Harvard Mind/Brain/Behavior Interfaculty Initiative Research Grant  
*Early life stress and disruption of frontal circuits for executive function and emotional reactivity*  
Role: Co-Principal Investigator (with Takao Hensch, Carolyn Johnson)  
Amount awarded: \$50,000
- 2015-2020 National Science Foundation  
CAREER Award  
*Psychological and neurodevelopmental mechanisms of social influence on adolescent decision-making*  
Role: Principal Investigator  
Amount awarded: \$750,000
- 2015-2016 Harvard Catalyst  
"Addressing Mental Health in the Second Decade of Life Through Translational Lifecourse Research" Pilot Grant  
*Quantifying reinforcement learning deficits in adolescent depression: A computational imaging study*  
Role: Co-Principal Investigator (with graduate student Catherine Insel)  
Amount awarded: \$72,549
- 2015-2016 Harvard Initiative for Learning & Teaching  
Spark Grant  
*LINK: Preparing students to evaluate evidence*  
Role: Co-Principal Investigator (with Todd Rose, Stephanie Sasse)  
Amount awarded: \$16,500
- 2014-2017 Yale University Law School  
Oscar M. Rubenhausen Fund  
*Social consequences of decisions: A developmental study*  
Role: Co-Investigator (PIs: Hedy Kober, Gideon Yaffe)  
Amount awarded: \$98,910
- 2014-2017 US Army Natick Soldier Research Development & Engineering Center  
Research Project Contract  
*Examining individual differences in the cognitive processes and brain networks supporting social cognition in emerging adults*  
Role: Principal Investigator  
Amount awarded: \$659,267
- 2014-2015 Harvard University Mind/Brain/Behavior Interfaculty Initiative  
Research Grant  
*Real-life risk taking, regulation in the face of reward and neurodevelopment during adolescence*

	Role: Co-Principal Investigator (with Margaret Sheridan) Amount awarded: \$50,000
2010-2015	National Institute of Mental Health K99R00 Pathway to Independence Award K99 Mentored Phase (2010-2012) R00 Independent Phase (2012-2015) <i>Development of tonic and phasic neural systems mediating affect and anxiety</i> Role: Principal Investigator Amount awarded: \$912,289
2004-2007	National Science Foundation Graduate Research Fellowship

### **Mentored Research Grants & Fellowships**

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2016-2018	Netherlands Organisation for Scientific Research (NWO) Rubicon Postdoctoral Fellowship <i>Risky friends: How peers influence risk-taking behavior in adolescence</i> Awarded to postdoctoral fellow Barbara Braams Role: Mentor
2016-2017	Eric M. Mindich Research Grant, Harvard University Foundations of Human Behavior Initiative <i>Adolescent attunement to peer evaluation: Neurodevelopmental mechanisms and consequences of social learning</i> Awarded to postdoctoral fellow Katherine Powers Role: Mentor
2016-2017	Harvard University Sackler Scholarship in Psychobiology <i>Identifying neurodevelopmental markers of risk for depression during adolescence</i> Awarded to graduate student Catherine Insel Role: Mentor
2016-2017	American Psychological Association Elizabeth Munsterberg Koppitz Child Psychology Graduate Fellowship <i>A computational modeling approach to understanding social hierarchy dynamics in adolescence</i> Awarded to graduate student Alexandra Rodman Role: Mentor
2014-2016	American Foundation for Suicide Prevention Pilot Grant <i>Examining the neurobiology of suicidal behavior in adolescents</i> Role: Co-Mentor (PI: Catherine Glenn, Co-Mentor: Matthew Nock)  National Science Foundation Graduate Research Fellowship <i>Awarded to graduate students:</i>
2014-2017	Catherine Insel
2015-2018	Erik Nook
2016-2019	Maheen Shermohammed



## Invited & Conference Talks (2013-Present)

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### 2017

Invited Symposium - *Japan Neuroscience Society*, Chiba, Japan  
 Invited Speaker - *Multidisciplinary Conference on Reinforcement Learning and Decision Making*, Ann Arbor, MI  
 Keynote - *Adolescent Neuroscience Group Symposium*, UCLA  
 Symposium - *Society for Research on Child Development*, Austin, TX  
 Young Investigator Award Address - *Cognitive Neuroscience Society*, San Francisco, CA  
 Developmental Affective Science Seminar - University of Pittsburgh School of Medicine  
 Motivation Center Seminar - University of Pittsburgh School of Education  
 Center for Addiction Medicine Grand Rounds - Massachusetts General Hospital  
 Symposium - *Society for Personality and Social Psychology*, San Antonio, TX  
 Translational Neuroscience Seminar - Mount Sinai Medical School

### 2016

Social Area Research Seminar - Princeton University  
 Cognitive Neuroscience Colloquium - Duke University  
 Psychology Department Colloquium - Columbia University  
 Psychology Department Colloquium - Temple University  
 Psychology Department Colloquium - Concordia University, Montreal, Canada  
 Affective Neuroscience Study Group (ANGST) Seminar - National Institutes of Health  
 Invited Speaker - *Child and Brain Development Meeting*, Canadian Institute for Advanced Studies  
 Psychology Department Colloquium - Korea University, Seoul, South Korea  
 Center for Brain Sciences Annual Retreat - Harvard University  
 Research Seminar for Psychiatry Residents - McLean Hospital/Harvard Medical School  
 Invited Speaker - *Social & Affective Neuroscience Society* Conference, New York, NY  
 Invited Speaker - Center for the Developing Child Seminar, Harvard University  
 Social Brain Sciences Seminar - Dartmouth College

### 2015

Speaker & Conference Faculty - *The Science of Character: Using Brain Science to Promote Student Self Regulation, Resilience and Respect*, Boston, MA  
 Panelist - *Promises and Perils of Adolescent Neuroscience and Law*, Harvard University Law School  
 Keynote Address - *National Conference of Chief Justices (CCJ) & Conference of State Court Administrators (COSCA)*, Omaha, NE  
 Institute Colloquium - Max Planck Institute for Human Cognitive & Brain Sciences; Leipzig, Germany  
 Invited Speaker - Special Seminar on Social Brain Development, Leiden University, Netherlands  
 Invited Speaker - Behavioral Sciences Institute Seminar, University of Nijmegen, Netherlands  
 Departmental Colloquium - Donders Institute of Cognitive Neuroscience, Nijmegen, Netherlands  
 Symposium - *Association for Psychological Science* Conference, New York, NY  
 Symposium - British Neuroscience Association *Festival of Neuroscience* Conference, Edinburgh, UK  
 Center for Law, Brain, and Behavior Juvenile Justice Symposium - Harvard Medical School  
 Conte Colloquium on Mental Health - Harvard University  
 Judge Baker Children's Center Child Mental Health Forum - Harvard Medical School

**2014**

Sackler Symposium - *International Society for Developmental Psychobiology*, Washington, DC  
 Developmental Psychology Seminar - Yale University  
 Invited Speaker - *The Social Brain* Conference (sponsored by FENS/The Brain Prize), Copenhagen, Denmark  
 Plenary Address - *National Center for State Courts Juvenile Justice Reform Summit*, Northampton, MA  
 Course Faculty - Mortimer D. Sackler Summer Institute in Developmental Psychobiology, New York, NY  
 Symposium - *Capturing Brain Changes across the Lifespan: Implications for Affective Control and Wellbeing* Conference, Reading, UK  
 Seminar - Institute of Cognitive Neuroscience, University College London, London, UK  
*BrainMap* Research Seminar - Massachusetts General Hospital  
 Symposium - *Society for Biological Psychiatry* Conference, New York, NY  
 Flash Talk - *Society for Affective Science* Conference, Washington, DC  
 Symposium (2) and Discussant - *Society for Research on Adolescence* Conference, Austin, TX  
 Symposium - *Eastern Psychological Association* Conference, Boston, MA  
 Neuroscience of Social Decision Making Seminar - Princeton University  
 Center for Addiction Medicine Grand Rounds - Massachusetts General Hospital  
 Invited Speaker - *Social Brain Sciences Symposium* (New England area meeting), Boston, MA  
 Social Psychology Seminar - Northeastern University

**2013**

Neuroimaging & Neuroscience Seminar - Boston VA Hospital  
 Social Psychology Seminar - Brown University  
 Current Work in Clinical Psychology Seminar - Yale University  
 Behavioral Laboratory in the Social Sciences (BLISS) Brownbag - Harvard University  
 Seminar - Laboratory for Behavioral Neuroscience, Department of Psychiatry, Harvard Medical School  
 Keynote Address - Methods Seminar; University of Amsterdam, Amsterdam, The Netherlands  
 MGH Psychiatric Genetics & Translational Research Seminar - Harvard Medical School  
 Symposium Chair and Speaker - *Association for Psychological Science* Conference, Washington, DC  
 Center for Brain Sciences Brownbag - Harvard University  
 Speaker - *Mechanisms of Motivation, Cognition, & Aging Interactions* Conference, Washington, DC  
 Uchida Lab Meeting - Department of Molecular & Cellular Biology, Harvard University  
 Mind, Brain, and Behavior Seminar - Harvard University  
 Laboratories of Cognitive Neuroscience Brownbag - Children's Hospital Boston  
 Women in Science Minisymposium - Harvard University  
 Psychology Department Colloquium - University of Wisconsin-Milwaukee  
 Neuroimaging Seminar - McLean Hospital, Boston, MA

**Society Memberships**

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*Association for Psychological Science, Cognitive Neuroscience Society, Flux: The International Congress for Integrative Developmental Cognitive Neuroscience, Social & Affective Neuroscience Society, Society for Affective Science, Society for Neuroscience, Society for Research on Adolescence*

## Service to the Field

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2016-2019	Janet Taylor Spence Award Selection Committee <i>Association for Psychological Science</i>
2016-2017	Member-at-Large, Executive Committee <i>Society for Affective Science</i>
2016	FJ McGuigan Early Career Investigator Prize Selection Committee <i>American Psychological Association</i>
2015	Co-Chair of Annual Meeting <i>Social &amp; Affective Neuroscience Society</i>
2014-Present	Consulting Editor <i>Motivation Science</i>
2014-2017	Co-Chair, Emotion Preconference <i>Society for Personality &amp; Social Psychology</i>
2014	Course Faculty Mortimer D. Sackler Summer Institute in Developmental Psychobiology
2012-2015	Member-at-Large, Executive Committee <i>Social &amp; Affective Neuroscience Society</i>
2012	Co-Chair Social Brain Sciences Symposium (New England area meeting)
2009	Co-Director John Merck Fund Summer Institute on the Biology of Developmental Disabilities
Continual	Peer review ( <i>Journals, Grants [e.g., NIH, NSF, NWO], Fellowships, Book Proposals</i> )

## Teaching & Mentoring

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### Course Head

Spring 2016	PSY1702 <i>The Emotional Mind</i>
Fall 2015	PSY1355 <i>The Adolescent Brain</i>
Spring 2014	PSY1355 <i>The Adolescent Brain</i>
Fall 2013	PSY1702 <i>The Emotional Mind</i>
Spring 2013	PSY1702 <i>The Emotional Mind</i>

### Co-Instruction

Every semester	Lab Course PSY2160r <i>Laboratory in Affective Neuroscience &amp; Development</i>
Every year	Co-Instructor, PSY2020 <i>Cognition, Brain, &amp; Behavior Graduate Proseminar</i> Lecturer, PSY2010 <i>Contemporary Issues in Psychological Research (Departmental Proseminar)</i> Lecturer, PSY2500 <i>Social Psychology Graduate Proseminar</i> Lecturer, PSY950 <i>Psychology Live</i> Lecturer, <i>Law and Neuroscience</i> (Harvard Law School)

**Mentoring**

Postdocs	<i>Current:</i> Barbara Braams, Juliet Davidow, Katherine Powers <i>Past:</i> Catherine Glenn (co-advised with Matthew Nock)
PhD students	<i>Current:</i> Catherine Insel, Erik Nook, Alexandra Rodman, Maheen Shermohammed
Visiting students	<i>Past:</i> Nadine Abi Akar, Saz Ahmed, Ivy Defoe, Bianca van den Bulk
Undergraduates	<i>Current:</i> Mia Charifson*, Aridenne Dews, Sandy Li, Caitlin Stavish* <i>Past:</i> Alex Barry, Chiemeka Ezie, Brian Huh, Lia Kaynor, Kristen Osborne*, Arielle Rabinowitz*, Ana Reyes, Marilyn Romero, Maggie Schell, Christina Uhrig, Constanza Vidal Bustamante*, Zuzanna Wojcieszak, Joan Zhang * <i>Senior thesis writer</i>
High school students	<i>Past:</i> Oliver George, Harrison Rohrer* * <i>Intel Science Fair competitor</i>
Research assistants	<i>Current:</i> Katherine Kabotyanski, Erik Kastman, Gian Klobusicky, Laurel Kordyban, Constanza Vidal Bustamante <i>Past:</i> Suzanna Crowell, Megan Garrad, Nadia Haddara, Alea Skwara
Other	<i>Current:</i> Gina Falcone (PhD student at Suffolk University), Abigail Stark (PhD student at Suffolk University) <i>Past:</i> Yang Cai (M.Ed student at HGSE), Mingzhu He (M.Ed student at HGSE), Jahan Naghshineh (M.Ed student at HGSE), Stephanie Sasse (M.Ed student at HGSE), Hannah Shulman (Graduate student at Northeastern University), Sophie Turnbull (M.Ed student at HGSE)

**Institutional Service**

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**University**

2015, 2016	Herchel Smith Undergraduate Fellowship Selection Committee
2015-2016	Board of Freshman Advisors
2013-Present	Member, Senior Common Room Pforzheimer House
2013	Judge, <i>Neuroscience &amp; Mental Health</i> poster session, Conte Center at Harvard

**Departmental**

2015-2016	Clinical Area Search Committee
2015-2016	Space Committee
2015-2016	Organizer, Cognition, Brain & Behavior Brownbag Series
2014-2015	Co-Organizer (with Max Krasnow), Cognition, Brain & Behavior Brownbag Series
2013-2014	Social Area Search Committee
2012-2013	Restricted Funds Committee
2012-2013	Social Area Search Committee

## Public Engagement

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- 2014-Present      Core Faculty & Juvenile Justice Working Group, *MGH Center for Law, Brain, & Behavior*
- 2013-Present      Advisory Board, *The Brain Education Project* (neuroscience literacy program for teachers, students, and the general public)
- 2013-Present      Advisory Board, *The People's Science* (platform for public engagement with science)

### 2016

Feature article on human brain maturity - New York Times; CNN; Cell Press; APS Member Spotlight  
 Feature article on the Human Connectome Project in Development - Harvard Gazette  
 Subject of 3-part series on Adolescent Brain Development - Channel One News (Educational news shown in schools to ~5 million youth)  
 Science workshop for adolescents and teachers - Newton South High School, Newton, MA  
 Keynote speaker on Adolescent Neuroscience - Belmont High School, Belmont, MA  
 Science workshop for adolescents and parents - Harvard Museum of Natural History

### 2015

Keynote speaker on Adolescent Neuroscience for Middle School students, parents, & teachers - Otis Middle School, Arlington, MA  
 Guest blog post - [emotionnews.org](http://emotionnews.org), '*The emotional potency of peers during adolescence*'

### 2014

Keynote speaker on Adolescent Neuroscience for Boston-area high school teachers - Belmont Hill School, Belmont, MA  
 School Assembly for middle & high school students - Belmont Hill School, Belmont, MA  
 Keynote speaker on Adolescent Neuroscience for Boston-area high school teachers - *Exploring Neuroscience and Mental Health* Continuing Education Workshop hosted by Harvard University Life Science Outreach  
 Workshop on Adolescent Neuroscience to high school students - King Phillip Regional High School, Wrentham, MA  
 '*Brain Station*' - Brain Awareness Week Youth Conference at Harvard Graduate School of Education

### 2013

Workshop on Adolescent Neuroscience - Weston High School, Weston, MA  
 '*Brain Station*' - Brain Awareness Week Youth Conference at Harvard Graduate School of Education  
 Workshop on Adolescent Neuroscience - Philips Brooks House Association, Harvard University  
 Guest speaker on Adolescent Neuroscience - Pierce K-8 School, Brookline, MA  
 Keynote Speaker on Adolescent Neuroscience to parents, teachers and students - Chapel Hill-Chauncy Hall High School, Waltham, MA  
*Experts in Emotion* online interview series

### 2012

Keynote Speaker on Adolescent Neuroscience to parents and teachers - Science Programming for Parents, Pierce K-8 School, Brookline, MA

Speaker on Science Careers for Women for first-generation college students, in conjunction with *The Brain: The Inside Story* exhibit - American Museum of Natural History, New York, NY

### Conference Presentations from Laboratory

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◦ indicates trainee co-author

#### 2017

1. Insel, C.◦ & Somerville, L.H. (2017). Developmental emergence of corticostriatal connectivity mediates selective improvements in cognitive control under high stakes. Talk at *Society for Research on Child Development*, Austin, TX.
2. Dews, A.A.◦, Nook, E.C.◦, Sasse, S.F.◦, Lambert, H.K., McLaughlin, K.A., & Somerville, L.H. (2017). Increased alexithymia mediates the emergence of depressive symptoms from childhood to adolescence. Submitted to *Society for Affective Science*, Boston, MA.
3. Nook, E.C.◦, Sasse, S.F.◦, Lambert, H.K., McLaughlin, K.A., & Somerville, L.H. (2017). Multidimensional emotion representation development from childhood to adulthood scaffolds on general vocabulary. Submitted to *Society for Affective Science*, Boston, MA.
4. Shermohammed, M.◦, Mehta, P.H., & Somerville, L.H. (2017). Does psychosocial stress impact cognitive reappraisal? Behavioral and neural evidence. Submitted to *Society for Affective Science*, Boston, MA.
5. Insel, C.◦, Charifson, M.◦, Falcone, G.◦, & Somerville, L.H. (2017). High stakes accelerate reinforcement learning. Submitted to *Social & Affective Neuroscience Society*, Los Angeles, CA.
6. Nook, E.C.◦, Sasse, S.F.◦, Lambert, H.K., McLaughlin, K.A., & Somerville, L.H. (2017). Multidimensional emotion representation development from childhood to adulthood scaffolds on general vocabulary. Submitted to *Social & Affective Neuroscience Society*, Los Angeles, CA.
7. Powers, K.E.◦, Falcone, G.◦, Yaffe, G., Hartley, C.A., Davidow, J.Y.◦, Kober, H., & Somerville, L.H. (2017). Consequences for peers differentially bias computations about risk from adolescence to adulthood. Submitted to *Social & Affective Neuroscience Society*, Los Angeles, CA.
8. Lee, N.C., Weeda, W.D., Insel, C.◦, Somerville, L.H., Krabbendam, L., & Huizinga, M. (2017). Neural substrates of the influence of emotional cues on cognitive control in risk-taking adolescents. Submitted to *Organization for Human Brain Mapping Society*, Vancouver, Canada.

#### 2016

9. Buckner, R.L., Braga, R.M., Hutchison, R.M., Shermohammed, M.◦, Coombs, G., Barnett, I.J., Kiang, M.V., Farfel, L., Marotta, M.E., Mair, R.W., O'Keefe, T., Meickle, J., Liu, H., Somerville, L.H., Onnela, J.-P., & Baker, J.T. (2016). Deep dynamic phenotyping of the individual: A platform for precision neuroscience. *Society for Neuroscience*, San Diego, CA.
10. Davidow J.Y.◦, Van Dijk K.R.A., Snyder J., Vidal C.◦, Sheridan M.A., & Somerville L.H. (2016). Adaptive adjustment in cognitive control over reward in adolescence. *Society for Neuroscience*, San Diego, CA.
11. Sasse S.F.◦, Bialik M., Zaki J., Watson A., Abesamis G., & Somerville L.H. (2016). Sharing your science: a practical outreach workflow for researchers to promote responsible public engagement with neuroscience. *Society for Neuroscience*, San Diego, CA.

12. Shermohammed M.<sup>o</sup>, Buckner R.L., Baker J.T., Onnela J-P., & Somerville L.H. (2016). Deep dynamic phenotyping of the individual: tracking within-subject variability in social and emotional behavioral profiles using smartphones. *Society for Neuroscience*, San Diego, CA.
13. Nook, E.C.<sup>o</sup>, Schleider, J.L., & Somerville, L.H. (2016). Discovering bidirectional relations between emotion regulation and distancing language. *Society for Research in Psychopathology*, Baltimore, MD.
14. Braams B.R.<sup>o</sup>, Davidow J.Y.<sup>o</sup>, & Somerville L.H. (2016). Social influence on adolescent ambiguous and risky decision-making. *FLUX*, St. Louis, MO.
15. Davidow J.Y.<sup>o</sup>, Van Dijk K.R.A., Snyder J., Vidal C.<sup>o</sup>, Sheridan M.A., & Somerville L.H. (2016). Adaptive adjustment in cognitive control over reward in adolescence. *FLUX*, St. Louis, MO.
16. Garrad M.C.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Drysdale A.T., Abi Akar N.<sup>o</sup>, Insel C.<sup>o</sup>, Wilson R.C., & Somerville L.H. (2016). Exploratory decision making becomes more strategic through adolescence. *FLUX*, St. Louis, MO.
17. Kastman E.K.<sup>o</sup>, Skwara A.C.<sup>o</sup>, Insel C.<sup>o</sup>, Rodman A.M.<sup>o</sup>, Sasse S.F.<sup>o</sup>, & Somerville L.H. (2016). The effects of uncertainty on concurrent information processing from late childhood to adulthood. *FLUX*, St. Louis, MO.
18. Nook E.C.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Lambert H.K., McLaughlin K.A., & Somerville L.H. (2016). Emotion concepts become more distinct across development but the ability to specifically identify one's emotions is low in adolescence. *FLUX*, St. Louis, MO.
19. Powers K.E.<sup>o</sup>, Falcone G.<sup>o</sup>, Yaffe G., Kober H. & Somerville L.H. (2016). Asymmetric effects of friends' gains and losses on adolescents' risky decisions. *FLUX*, St. Louis, MO.
20. Nook E.C.<sup>o</sup>, Schleider J.L., & Somerville L.H. (2016). A linguistic signature of psychological distancing in emotion regulation. *Society for Affective Science*, Chicago, IL.
21. Defoe I.N.<sup>o</sup>, Dubas J., Somerville L.H., Lugtig P., & van Aken M.A.G. (2016). The unique roles of cognitive, affective, and social factors in adolescent smoking development. *Society for Research on Adolescence*, Baltimore, MD.
22. Insel C.<sup>o</sup>, Glenn C.R.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Garrad M.C.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Nock M., & Somerville L.H. (2016). Recruitment of prefrontal control regions during high stakes incentives predicts persistent improvements in cognitive control. *Social & Affective Neuroscience Society*, New York, NY.

## 2015

23. Moran J.M., Brunye T.T., Holmes A., Cantelon J., Figner B., Somerville L.H., & Taylor H.A. The influence of arousal on risky decision-making. *Cognitive Neuroscience Society*, San Francisco, CA.
24. Insel C.<sup>o</sup>, Glenn C.R.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Garrad M.C.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Nock M., & Somerville L.H. Immediate and lasting effects of high reward prospects on cognitive control. *Social & Affective Neuroscience Society*, Boston, MA.
25. Powers K.E.<sup>o</sup>, Somerville L.H., Kelley W.M., & Heatherton T.F. Social value modulates striatal prediction error signaling. *Social & Affective Neuroscience Society*, Boston, MA.
26. Rodman A.M.<sup>o</sup>, Insel C.<sup>o</sup>, Skwara A.C.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Sasse S.F.<sup>o</sup>, & Somerville L.H. Reduced cognitive interference by temporal uncertainty in adolescence. *Social & Affective Neuroscience Society*, Boston, MA.

27. Shermohammed M.<sup>o</sup>, Skwara A.C.<sup>o</sup>, Ezie C.E.C.<sup>o</sup>, Rabinowitz A.G.<sup>o</sup>, & Somerville L.H. Attenuation of physiological arousal to uncertainty during the adolescent transition. *Social & Affective Neuroscience Society*, Boston, MA.
28. Insel C.<sup>o</sup>, Glenn C.R.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Garrad M.C.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Nock M., & Somerville L.H. Immediate and lasting effects of high reward prospects on cognitive control. *Association for Psychological Science*, New York, NY.
29. Rodman A.M.<sup>o</sup>, Insel C.<sup>o</sup>, Skwara A.C.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Sasse S.F.<sup>o</sup>, & Somerville L.H. Reduced cognitive interference by temporal uncertainty in adolescence. *Association for Psychological Science*, New York, NY.
30. Shermohammed M.<sup>o</sup>, Skwara A.C.<sup>o</sup>, Ezie C.E.C.<sup>o</sup>, Rabinowitz A.G.<sup>o</sup>, & Somerville L.H. Attenuation of physiological arousal to uncertainty during the adolescent transition. *Association for Psychological Science*, New York, NY.
31. Insel C.<sup>o</sup>, Glenn C.R.<sup>o</sup>, Kastman E.K.<sup>o</sup>, Sasse S.F.<sup>o</sup>, Garrad M.C.<sup>o</sup>, Nock M., & Somerville L.H. (2015). High-stakes rewards and punishments induce "choking" behavior in adolescent reactive cognitive control: Behavioral evidence and frontostriatal mechanisms. *Flux Developmental Neuroscience Society*, Leiden, The Netherlands.