**Silvia A. Bunge, Ph.D.** <http://www.bungelab.berkeley.edu/>

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**Education**

1996 – 2001 Ph.D. in Neuroscience, Stanford University

1992 – 1996 B.S. Intensive in Biology (Psychobiology track), Yale College

1990 – 1992 Diploma of Collegiate Studies: Health Sciences & Pure and Applied

Sciences, Collège Jean-de-Brébeuf, Montreal

**Positions and Employment**

*Employment*

2014 – Professor, Psychology & Helen Wills Neuroscience Institute, UC Berkeley

2007 – 2014 Assistant Prof (2007-2009); Associate Prof (2009-2014), UC Berkeley

2003 – 2006 Assistant Professor, Dept. of Psychology & Center for Mind and Brain

University of California at Davis

2001-2003 Postdoctoral Associate, Department of Brain and Cognitive Sciences

Massachusetts Institute of Technology

*Positions*

2018 – 2019 Helen Wills Neuroscience Institute Executive Committee member, UCB

2018 – 2019 Interim Co-Director, Institute of Cognitive and Brain Sciences, UCB

2017 – 2019 Developmental Area Head, Dept of Psychology, UCB

2016 – 2019 Futures Committee, Department of Psychology, UCB

2011 – 2013 Co-Vice Chair, Department of Psychology, UCB

**Awards and Honors**

2018 Selected as a Fellow of the Association for Psychological Science

2016 Elected to Society of Experimental Psychologists

2015 Jacobs Foundation Advanced Career Research Fellowship

2015 Alexander von Humboldt Research Award (100 scholars in any field)

2013 Elected to International Mind, Brain, and Education Society Board of Directors

2012 Presidential Chair Fellow, Center for Teaching and Learning, UC Berkeley

2011 James S. McDonnell Foundation 21st Century Science Initiative, Scholar

Award in Understanding Human Cognition *(*15 cognitive scientists worldwide)

2011 – 2018 National Scientific Council on the Developing Child member (11 members)

2010 – Elected to 1st Innovation By Design team in Frontiers of Innovation: Building

Caregiver Capacities, developing interventions in Washington State.

2010 Finalist, Aspen Brain Forum Award in NeuroEducation

2007 – 10 MacArthur Law and Neuroscience Consortium

2007 Young Investigator Award, Cognitive Neuroscience Society

2006 Elected to Memory Disorders Research Society

2004 – 09 John Merck Scholarship in the Biology of Developmental Disabilities

2001 Finalist for MIT Science Fellowship

1999 McDonnell Summer Institute in Cognitive Neuroscience Fellowship

1996 – 2001 Baxter Foundation Graduate Fellowship, Stanford Medical School

1996 Distinction in Biology; Graduation with Honors from Yale College

**Publications**

***Edited books***

**Bunge**, S.A. & O’Hare E.D. (Eds.) The Developing Human Brain. A Frontiers Research Topic. 2012.

**Bunge**, S.A.& Wallis, J. (Eds.) The Neuroscience of Rule-Guided Behavior, Oxford University Press, 2007.

***Peer-reviewed empirical papers***

*~14,689 citations; h-index = 54; i10-index = 93 (Google Scholar, as of 06/11/2019)*

97. Mota, N., Callipo, R., Leite L., Torres, A., Weissheimer, J., **Bunge** S.A., Copelli, M., & Ribeiro, S. (in press). Speech organization during literacy acquisition predicts reading fluency and verbal short-term memory performance. *Mind, Brain and Education.*

96. Miller Singley, A.T., Crawford, J.L., & **Bunge**, S.A. (in press) Using Eye Tracking to Probe Developmental and Skill-based Differences in Fraction Magnitude Evaluation. *Journal of Numerical Cognition*

95. Fandakova, Y., Leckey, S., Driver, C.C., **Bunge**, S.A., & Ghetti, S. (2019) Neural specificity of scene representations is related to memory performance in childhood. *Neuroimage. 99:105-113*

94. Eckstein, M., Starr, A., & **Bunge**, S.A. (2019) How the inference of hierarchical rules unfolds over time. *Cognition.* 185:151-162.

93. Williams, A.I., Zhou, Q., Uchikoshi, & **Bunge**, S.A. (2018). Links between English and heritage language proficiency and executive functions in dual language learners from Head Start families. *Early Education and Development*. 30(3): 357-374.

92. Selmeczy, D., Fandakova, Y., Grimm, K.J., **Bunge**, S.A., and Ghetti, S. (2018) Longitudinal Trajectories of Hippocampal and Prefrontal Contributions to Episodic Retrieval: Effects of Age and Puberty. *Developmental Cognitive Neuroscience.* 20:100599.

91. Guerra-Carrillo, B. & **Bunge**, S.A. (2018) Eye gaze patterns reveal how reasoning skills improve with experience. *NPJ Science of Learning.*

Press release: <http://news.berkeley.edu/2018/10/18/lsat-eye-tracking/>

90. Starr, A., Vendetti, M., & **Bunge**, S.A. (2018). Eye movements provide insight into the development of analogical reasoning. *Acta Psychologica* 186:18-26.

89. Brod, G., Hasselhorn, M., & **Bunge**, S.A. (2018). When making a prediction boosts learning: The element of surprise. *Learning and Instruction* 55, 22-31.

88. Miller Singley, A.T. & **Bunge**, S.A. (2018). Eye gaze patterns reveal how we reason about fractions. *Thinking* *and Reasoning*: Special issue on “Reasoning and mathematics”. 24(4): 445-468.

87. Guerra-Carrillo, B., Katovich, K., & **Bunge**, S.A. (2017). Does higher education hone cognitive functioning and learning efficacy? Findings from a large, representative sample. *PLoS One* Aug 23;12(8):e0182276.

86. Wendelken, C., Ferrer, E., Ghetti, S., Bailey, S., Cutting, L., & **Bunge**, S.A. (2017). Fronto-parietal structural connectivity in childhood predicts development of functional connectivity and reasoning ability: a large-scale longitudinal investigation. *Journal of Neuroscience.* Aug 30;37(35):8549-8558.  Selected for *Society for Neuroscience* press promotion.

85. Fandakova, Y., Selmeczy, D., Leckey, S., Grimm, K.J., Wendelken, C., **Bunge**, S.A., & Ghetti, S. (2017). Changes in ventromedial prefrontal and insular cortex support the development of metamemory from childhood into adolescence. *Proceedings of the National Academy of Sciences.* Jul 3. pii: 201703079. doi: 10.1073/pnas.1703079114. [Epub ahead of print]

84. Vendetti, M.\*, Starr, A.\*, Johnson, E.L., Modavi, K., & **Bunge**, S.A. (2017) Eyegaze patterns reveal optimal strategies during analogical reasoning. *Frontiers in Psychology – Cognition.* https://doi.org/10.3389/fpsyg.2017.00932 (\*shared first authorship)

83. Brod, G., **Bunge**, S.A., & Shing, Y. (2017) Does one year of schooling improve children’s cognitive control and alter associated brain activation?*Psychological Science* May 1:956797617699838. doi: 10.1177/0956797617699838. [Epub ahead of print]

82. Green, C.T., Chiongban, V.B., Barrow, M., Ferrer, E., & **Bunge**, S.A. (2017). Fluid reasoning predicts future mathematical performance among children and adolescents. *Journal of Experimental Child Psychology.* Jan 30;157:125-143.

81. Whitaker, K.J.\*, Vendetti, M.S.\*, Wendelken, C., & **Bunge**, S.A. (2017) Neuroscientific insights into the development of analogical reasoning. *Developmental Science.* (\*shared first authorship) Mar 12. doi: 10.1111/desc.12531. [Epub ahead of print]

80. Eckstein, M., Guerra-Carrillo, B., Miller Singley, A.T., & **Bunge**, S.A. (2017) Beyond eye gaze: What else can eyetracking reveal about cognition and cognitive development? *Developmental Cognitive Neuroscience.* Jun;25:69-91. doi: 10.1016/j.dcn.2016.11.001. Epub 2016 Nov 11.

79. Fandakova, Y., Wendelken, C., Lee, J.K., **Bunge**, S.A., & Ghetti, S. (2016) The Importance of Knowing When You Don't Remember: Neural Signaling of Retrieval Failure Predicts Memory Improvement Over Time. *Cerebral Cortex. Nov 23:1-13.* doi: 10.1093/cercor/bhw352. [Epub ahead of print]

78. Op de Macks, Z.A., **Bunge**, S.A. Bell, O.N., Kriegsfeld, L.J., Kayser, A.S., & Dahl, R.E. (2016) Risky decision-making in adolescent girls: The role of testosterone and reward circuitry. *Psychoneuroendocrinology*.

77. Op de Macks, Z.A., **Bunge**, S.A. Bell, O.N., Kriegsfeld, L.J., Kayser, A.S., & Dahl, R.E. (2016) The effect of social rank feedback on risk taking and associated reward processes in adolescent girls. *Social, Affective, and Cognitive Neuroscience* Sep 10. pii: nsw125. [Epub ahead of print] Aug 17;74:77-91. doi: 10.1016/j.psyneuen.2016.08.013. [Epub ahead of print]

76. Mota, N.B., Weissheimer, J., Madruga, B., Adamy, N., **Bunge**, S.A., Copelli, M., & Ribeiro, S. (2016) A naturalistic assessment of the organization of children’s memories predicts cognitive functioning and reading ability. *Mind, Brain, and Education.* Doe 10.1111/mbe.12122

75. Church-Lang, J., **Bunge**, S.A., Petersen, S., & Schlaggar, B. (2016). Preparatory engagement of cognitive control networks increases late in childhood. *Cerebral Cortex*. Mar 13. pii: bhw046. [Epub ahead of print]

74. Sastre III, M., Wendelken, C., **Bunge**, S.A., Lee, J., Pospisil, J., Ross, J., & Ghetti, S. (2016) Age- and Performance-related Differences in Hippocampal Contributions to Episodic Retrieval. *Developmental Cognitive Neuroscience* 19:42-50.

73. Lee, J.K., Wendelken, C., **Bunge**, S.A., & Ghetti, S. (2015). A Time and a Place for Everything: Building Blocks of Episodic Memory. *Child Development.* Oct 23. [Epub ahead of print]

72. Mackey, A.P., Miller Singley, A.T., Wendelken, C., & **Bunge**, S.A. (2015). Characterizing transfer: How practicing reasoning skills influences brain and behavior. *PLoS One*, Sep 14;10(9):e0137627. doi: 10.1371/journal.pone.0137627

71. Luerssen, A., Gyurak, A., Ayduk, A., Wendelken, C., & **Bunge**, S.A. (2015). Delay of Gratification in Childhood Linked to Cortical Interactions with the Nucleus Accumbens. *Social, Cognitive, and Affective Neuroscience.* Jun 5. pii: nsv068. [Epub ahead of print]

70. Tharp, J., Wendelken, C., Schreier, H., Marco, E., & **Bunge**, S.A. (2015) Explaining individual variability in tic severity among children with Tourette Syndrome: Insights from a novel eyetracking paradigm. *Frontiers in Psychiatry* (section: *Child and Neurodevelopmental Psychiatry).* Published: 29 June 2015 doi: 10.3389/fpsyt.2015.00095

69.Wendelken, C., Ferrer, E., & **Bunge**, S.A. (2015) Fronto-parietal network reconfiguration supports the development of reasoning ability. *Cereb Cortex.* 26(5):2178-90

68.Vendetti, M.S.\*, Johnson, E.L.\*, Lemos, C.J., & **Bunge**, S.A. (2015). Hemispheric Differences in Relational Reasoning: Novel Insights based on an Old Technique. *Frontiers in Human Neuroscience*, Special Issue on “The Reasoning Brain”. **(**\*shared first authorship). Feb 9; 9:55

67.Blais, C., Harris, M.B., Sinanian, M.H., & **Bunge**, S.A. (2015). Trial-by-trial adjustments in control triggered by incidentally encoded semantic cues. *Quarterly Journal of Experimental Psychology.* 68(9):1920-30.

66.Chen, S.H., Main, A., Zhou, Q., **Bunge**, S.A., Lau, N., & Chu, K. (2015) Effortful Control and Early Academic Achievement of Chinese American Children in Immigrant Families. *Early Childhood Research Quarterly.* doi:10.1016/j.ecresq.2014.08.004.

65.Vendetti, M.S., Matlen B.J., Richland, L.E., & **Bunge**, S.A. (2015) Analogical Reasoning in the Classroom: Insights from Cognitive Science. *Mind, Brain, and Education,* 9(2):100-106.

64.Vendetti, M.S. & **Bunge**, S.A. (2014). Evolutionary and developmental changes in the lateral frontoparietal network: A little goes a long way for higher-level cognition. *Neuron 84(5):*906-917.

63.Chen, S.H., Zhou, Q., Uchikoshi, Y., & **Bunge**, S.A. (2014) Variations on the bilingual advantage? Links of Chinese and English proficiency to Chinese American children’s self-regulation. *Frontiers in Psychology.* Sep 30;5:1069. doi: 10.3389/fpsyg.2014.01069.

62.Miller Singley, A.T. & **Bunge**, S.A. (2014). Neurodevelopment of Relational Reasoning: Implications for Mathematical Pedagogy. *Trends in Neuroscience and Education*, 3(2):33-37.

61.Wendelken, C., Lee, J., Pospisil, J., Sastre III, M., **Bunge**, S.A., & Ghetti, S. (2014). White Matter Tracts Connected to the Medial Temporal Lobe Support the Development of Mnemonic Control. *Cerebral Cortex.* Mar 27. E-pub ahead of print.

60.Johnson, E.L., Miller Singley, A.T., Peckham, A., Johnson, S., & **Bunge**, S.A. (2014). Task-evoked pupillometry provides a window into the development of short-term memory capacity**.** *Frontiers in Developmental Psychology.* *Mar 13;5:218.*

59.Guerra-Carrillo, B., Mackey, A.P., & **Bunge**, S.A. (2014) Resting-state fMRI: A window into human brain plasticity. *The Neuroscientist*. Feb 21. Epub ahead of print. PMID: 24561514

58.Ferrer, E.\*, Whitaker, K.J.\*, Steele, J., Green, C.T., & **Bunge**, S.A. (2013) White matter maturation supports the development of reasoning ability through its influence on processing speed. \* = joint first authors. *Developmental Science.* 16(6):941-51

57.Paz-Alonso, P.M.\*, **Bunge** S.A.\*, Anderson, M.C., & Ghetti, S. (2013) Strength of coupling within a mnemonic control network differentiates those who can and cannot suppress memory retrieval. *Journal of Neuroscience* 33(11): 5017-5026. ***\* = joint first authors***

56.Mackey, A.P., Miller Singley, A.T., & **Bunge**, S.A. (2013) Intensive reasoning training alters patterns of brain connectivity at rest. *Journal of Neuroscience* 33(11): 4796-4803.

55.Mackey, A.P., Whitaker, K.J., & **Bunge**, S.A. (2012) Experience-dependent plasticity in white matter microstructure: Reasoning training alters structural connectivity. *Frontiers in Neuroanatomy*, Special Issue on “Mapping Connectivity of the Human Cerebral Cortex “, hosted by Michael Petrides and Daniel S. Margulies.

54.Wendelken, C.\*, Munakata, Y.\*, Baym, C., Souza, M., & **Bunge,** S.A. (2012) Flexible Rule Use: Common Neural Substrates in Children and Adults. *Developmental Cognitive Neuroscience* 2(3):329-39 \* = joint first authors.

53.Ghetti, S. & **Bunge**, S.A. (2012) Neural changes underlying the development of episodic memory during middle childhood. *Developmental Cognitive Neuroscience.* 2, 381-395.

52. **Bunge,** S.A. & Whitaker, K.J. (2012) Brain Imaging: Your MRI scan doesn’t lie about your age. *Current Biology* 22(18):R800-1.

51. Wendelken, C., O’Hare, E.D., Whitaker, K.J., Ferrer, E., & **Bunge**, S.A. (2011) Increased Functional Selectivity over Development in Rostrolateral Prefrontal Cortex. *Journal of Neuroscience. 31(47):17260-8.*

50. Wendelken, C., Chung, D., & **Bunge**, S.A. (2011) Rostrolateral Prefrontal Cortex: Domain-General or Domain-Sensitive? *Human Brain Mapping.* doi: 10.1002/hbm.21336. [Epub ahead of print]

49. Wendelken, C., Baym, C. L., Rubens, M., Gazzaley, A., & **Bunge**, S.A. (2011) Neural indices of improved attentional modulation over middle childhood*. Developmental Cognitive Neuroscience*. Apr 1;1(2):175-186.

48. Mackey, A.P., Hill, S.S., Stone, S.I., & **Bunge**, S.A. (2011) Dissociable effects of reasoning and speed training in children. *Developmental Science*, May;14(3):582-90

47. Liao IH, Corbett BA, Gilbert DL, **Bunge** SA, Sharp FR. (2010) Blood gene expression correlated with tic severity in medicated and unmedicated patients with Tourette Syndrome*. Pharmacogenomics*. 11(12):1733-41.

46. Ghetti S, DeMaster DM, Yonelinas AP, **Bunge** SA. (2010) Developmental differences in medial temporal lobe function during memory encoding. *Journal of Neuroscience* 30(28):9548-56.

45. Blais C, Harris MB, Guerrero JV, **Bunge** SA. (2010) Rethinking the role of automaticity in cognitive control. *Quarterly Journal of Experimental Psychology* 29:1-9.

44. Baldo JV, **Bunge** SA, Wilson SM, Dronkers NF. (2010) Is relational reasoning dependent on language? A voxel-based lesion symptom mapping study. *Brain and Language* May;113(2):59-64. Epub 2010 Mar 5.

43. Ferrer, E., O’Hare, E.D., & Bunge, S.A. (2009) Fluid reasoning and the developing brain. Focused review for *Frontiers in Neuroscience*, 3(1), 1-6.

42. Blais, C., Risko, I., & **Bunge**, S.A. (2009) Item-specific cognitive control. *Journal of Cognitive Neuroscience* Nov 19.

41. Paz-Alonso, P.M., Ghetti, S., Matlen, B.J., Anderson, M.C., & Bunge, S.A. (2009) Memory Suppression is an Active Process that Improves over Middle Childhood. *Frontiers in Human Neuroscience* 3:24.

40. Wendelken, C., Ditterich, J., Bunge, S.A., & Carter, C.S. (2009) Stimulus and Response Conflict Processing During Perceptual Decision-Making. *Cognitive, Affective, and Behavioral Neuroscience.* Dec;9(4):434-47.

39. Bhanji, J.P., Beer, J.S., & Bunge, S.A. (2009) Taking a Gamble or Playing by the Rules: Dissociable Prefrontal Systems for Probabilistic versus Deterministic Rule-based Decision Making. *NeuroImage* 49(2):1810-9.

38. Wendelken, C. & Bunge, S.A. (2009) Transitive Inference: Distinct Contributions of Rostrolateral Prefrontal Cortex and the Hippocampus. *Journal of Cognitive Neuroscience*, Mar 25.

37. Bunge, S.A., Hauk Helskog, E., & Wendelken, C. (2009) Left, but not right, rostrolateral prefrontal cortex meets a stringent test of the relational integration hypothesis. *NeuroImage*, 46(1), 338-342.

36. Souza, M.J., Donohue, S.E., & Bunge, S.A. (2009) Controlled retrieval and selection of action-relevant knowledge mediated by partially overlapping regions in left ventrolateral prefrontal cortex, *NeuroImage*, 46(1), 299-307.

35. Crone, E.A., Wendelken, C., van Leijenhorst, L., Honomichi, R.D., Christoff, K., Bunge, S.A. (2009) Neurocognitive Development of Relational Reasoning. *Developmental Science*, 12(1):55-66.

34. **Bunge**, S.A. & Wendelken, C. (2009) Comparing the Bird in the Hand with the Ones in the Bush. *Neuron* 62, June 11.

33. Corbett, B.A., Mendoza, S.P., Baym, C.L., Bunge, S.A., & Levine, S. (2009) Examining cortisol rhythmicity and responsivity to stress in children with Tourette Syndrome. *Psychoneuroendocrinology*, 33(6):810-20.

32. Wright, S.B., Matlen, B.J., Baym, C.L., Ferrer, E., & Bunge, S.A. (2008) Neural correlates of fluid reasoning in children and adults. *Frontiers in Human Neuroscience*.

31. Paz-Alonso, P.M., Ghetti, S., Donohue, S.E., Goodman, G.S., & Bunge, S.A. (2008) Neurodevelopmental correlates of true and false recognition. *Cerebral Cortex,* 18(9):2209-16.

30. Baym, C.L., Corbett, B.A., Wright, S.B. & Bunge, S.A.(2008) Neural correlates of tic severity and cognitive control in children with Tourette Syndrome. *Brain*, 131:165-79.

29. Wendelken, C., Nakhabenko D., Donohue, S.E., Carter, C.S. & Bunge, S.A. (2008) ‘Brain is to Thought as Stomach is to…?’ – Investigating the role of rostrolateral prefrontal cortex in relational reasoning. *Journal of Cognitive Neuroscience*, 20:682-93.

28. Donohue, S.E., Wendelken, C. & Bunge, S.A. (2008) Neural correlates of preparation for action selection as a function of specific task demands. *Journal of Cognitive Neuroscience*, 26:11239-47.

27. Wendelken, C., Bunge, S.A., & Carter, C.S. (2007) Parietal and prefrontal roles in maintaining structured information. *Neuropsychologia*, Oct 6; [Epub ahead of print]

26. Mauss, I.B., Bunge, S.A. & Gross, J.J. (2007) Automatic Emotion Regulation: Neuroscientific Considerations. *Social and Personality Psychology Compass*.

25. Bunge, S.A. & Wright, S.B. (2007) Neurodevelopmental changes in working memory and cognitive control. *Current Opinion in Neurobiology*, 17(2), 243-50.

24. Crone, E.A., Donohue, S., Honomichl, R., Wendelken, C., & Bunge, S.A. (2006) Brain regions mediating flexible rule use during development. *Journal of Neuroscience,* 26(43): 11239-47.

23. Crone, E.A., Donohue, S.E., van Leijenorst, L., Wendelken, C. & Bunge, S.A. (2006) Neurocognitive development of the ability to manipulate information in working memory. *Proceedings of the National Academy of Sciences,* 103(24):9315-20.

22. Bunge, S.A. & Zelazo, P.D. (2006) A Brain-Based Account of the Development of Rule Use in Childhood. *Current Directions in Psychological Science,* 15(3): 118-21.

21. Crone, E.A., Bunge, S.A., van der Molen, M.W., & Ridderinkhof, K.R. (2006) Switching between tasks and responses: A developmental study. *Developmental Science,* 9(3): 278-87.

20. van Leijenhorst, L., Crone, E.A. & Bunge, S.A. (2006) Neural correlates of developmental differences in risk estimation and feedback processing. *Neuropsychologia,* 44(11):2158-70.

19. Bunge, S.A., Wallis,J.D., Parker,A., Brass,M., Crone,E.A., Hoshi,E., & Sakai, K. (2005) Neural circuitry underlying rule use in humans and non-human primates. *Journal of Neuroscience,* 25(45):10347-50.

18. Crone, E.A., Wendelken, C., Donohue, S.E., & **Bunge**, S.A. (2005) Neural evidence for dissociable components of task-switching. *Cerebral Cortex,* 16(4):475-86.

17. Gillath, O., **Bunge**, S.A., Shaver, P.R., Wendelken, C., & Mikulincer, M. (2005) Attachment-style differences in the ability to suppress negative thoughts: Exploring the neural correlates. *NeuroImage*, 28(4):835-47.

16. Crone, E.A., **Bunge**, S.A., Latenstein, H. & van der Molen, M.W. (2005) Characterization of children's decision making: Sensitivity to punishment frequency, not task complexity. *Child Neuropsychology* 11(3):245-63.

15. Donohue, S.E., Wendelken, C., Crone, E.A., & **Bunge**, S.A. (2005) Retrieving rules for behavior from long-term memory. *NeuroImage* 26:1140-49.

14. Narayanan, N., Prabhakaran, V., **Bunge**, S.A., ChristoffK., FineE.M., & Gabrieli, J.D. (2005) The role of prefrontal cortex in the maintenance of verbal working memory: An event-related fMRI analysis. *Neuropsychology* 19:223-32.

13. Crone, E.A., **Bunge**, S.A., de Klerk, P., van der Molen, M.W. (2005) Cardiac concomitants of performance monitoring: Context dependence and individual differences. *Brain Research Cognitive Brain Research* 23(1): 93-106.

12. Vaidya, C. J., **Bunge**, S. A., Dudukovic, N. M., Zalecki, C. A., Elliott, G. R., & Gabrieli, J. D. (2005) Altered neural substrates of cognitive control in childhood ADHD: Evidence from functional magnetic resonance imaging. *American Journal of Psychiatry,* 162(9):1605-13.

11. **Bunge** SA, Wendelken C, Badre D, Wagner AD. (2005) Analogical reasoning and prefrontal cortex: evidence for separable retrieval and integration mechanisms. *Cereb Cortex.* 2005 Mar;15(3):239-49. Epub 2004 Jul 6.

10. **Bunge**, S. A. (2004) How we use rules to select actions: A review of evidence from cognitive neuroscience. *Cognitive, Affective, and Behavioral Neuroscience* 4(4): 564-79.

9. **Bunge**, S.A., Burrows, B., & Wagner, A.D. (2004) Prefrontal and hippocampal contributions to visual associative recognition: Interactions between cognitive control and episodic retrieval. *Brain and Cognition* 56:141-52.

8. **Bunge**, S.A., Kahn, I., Wallis, J.D., Miller, E.K., & Wagner, A.D. (2003) Neural circuits subserving the retrieval and maintenance of abstract rules. *Journal of Neurophysiology,* 90(5):3419-28

7. Hazeltine, E., **Bunge**, S.A. & Gabrieli, J.D. (2003) Material-dependent and material-independent selection processes in the frontal and parietal lobes: An event-related fMRI investigation of response competition. *Neuropsychologia* 41:1208-17.

6. **Bunge**, S.A., Hazeltine, E., Scanlon, M., Rosen, A. & Gabrieli, J.D. (2002) Dissociable contributions of prefrontal and parietal cortices to response selection. *NeuroImage* 17:1562-1571.

5. Ochsner, K.N., **Bunge**, S.A., Gross, J.J. & Gabrieli, J.D. (2002) Rethinking feelings: An fMRI study of the cognitive regulation of emotion. *Journal of Cognitive Neuroscience* 14(8):1215-29.

[Manuscript reproduced in “*Key Readings in Social Psychology: Social Neuroscience”, edited by Cacioppo and Berntson; Psychology Press, 2005]*

4. **Bunge**, S.A., Dudukovic, N.M., Thomason, M.E., Vaidya, C.J. & Gabrieli, J.D. (2002) Immature frontal lobe contributions to cognitive control in children: Evidence from fMRI. *Neuron*, 33:301-311.

3. **Bunge**, S.A., Ochsner, K.N., Desmond, J.E., Glover, G.H. & Gabrieli, J.D. (2001) Prefrontal regions involved in keeping information in and out of mind. *Brain*, 124:2074-86.

2. **Bunge**, S.A., Klingberg, T., Jacobsen, R.B. & Gabrieli, J.D. (2000) A Resource Model of the Neural Basis of Executive Working Memory. *Proceedings of the National Academy of Sciences*, 97:3573-78.

1. **Bunge**, S.A., Mauelshagen, J. & Carew, T.J. (1997) Reversal of relative thresholds for synaptic facilitation and increased excitability induced by serotonin and tail nerve stimulation in *Aplysia* sensory neurons. *Neurobiology of Learning and Memory,* 67:259-263.

***Peer-reviewed papers under review or in revision***

**Bunge**, S.A., and Leib, E. (submitted) Does education hone reasoning ability? (Is that still the right question to ask?). Invited submission to *Current Directions in Psychological Science.*

Wang, W.-C., Brod, G., Ghetti, S., & **Bunge**, S.A. (submitted) Does a lion belong in a city? Neurodevelopmental differences in the use of knowledge to evaluate semantic associations.

Starr, A., Srinivasan, M., & **Bunge**, S.A. (in revision). Semantic knowledge influences visual working memory in adults and children.

Brod, G., Breitwieser, J., Hasselhorn, M., & **Bunge**, S.A. (revised-and-resubmitted). Being proven wrong only elicits learning among children with higher executive function skills.

Gruber, Mendle, et al. (revise-and-resubmit) The future of women in psychological science.

[One of 70 co-authors]

Whitfield-Gabrieli S., Wendelken C., Cutting L., **Bunge** S.A.  (revised-and-resubmitted) Intrinsic Brain Architecture Predicts Future Attentional and Mood Problems in a Normative Pediatric Sample.

Galeano Weber, E., Klegowits, H., Fisher, A., & **Bunge**, S.A. (submitted) Feature segregation and integration in visual working memory across the two hemispheres.

***Manuscripts in progress***

Wang, W.-C., Swamy, G., & **Bunge**, S.A. (in prep.) The representation of abstract relations, as measured via relational priming.

Keglowits, H., Eckstein, M., Galeano Weber, E., Christian, P., & **Bunge**, S.A. (in prep.) Stay to one side: hemispheric laterality effects on the ability to infer rules.

Starr, A., Leib, E., Younger, J., Uncapher, M., **Bunge**, S.A. & NSF Science of Learning Consortium (in prep.) A new addition to the pantheon of executive functions: Relational thinking.

Wang, W.-C., Taniguchi, L., & **Bunge**, S.A. (in prep.) Effects of prior knowledge and development on memory for verbal associations.

***Chapters, commentaries, and other publications***

National Scientific Council on the Developing Child, Working Paper #14. Understanding Motivation: Building the Brain Architecture that Supports Learning, Health, and Community Participation. Co-authored with faculty and staff members of the Council.

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**Bunge**, S.A. (2017). How does going to school change your brain? Blog on Learning and Development. <http://bold.expert/how-does-going-to-school-change-your-brain/>

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**Bunge**, S.A.(2013) Ain’t No Mountain High Enough: A Review of “How Children Succeed: Grit, Curiosity, and the Hidden Power of Character” by Paul Tough. *Cerebrum*, The Dana Foundation. <http://www.dana.org/news/cerebrum/detail.aspx?id=40904>

Blakemore, S.J. & **Bunge**, S.A. (2012). At the nexus of neuroscience and education. Supplement on Neuroscience and Education, *Developmental Cognitive Neuroscience. Feb 15;2 Suppl 1:S1-5*

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**Bunge**, S.A. & Toga, A. (2012). Introduction to Frontal Lobe Development. In: Principles of Frontal Lobe Functions, edited by Donald Stuss & Robert Knight. Oxford University Press, 2012.

**Bunge**, S.A. & Preuss, T.M. (2010) Evolutionary and developmental issues in cognitive neuroscience. Encyclopedia of Behavioral Neuroscience, edited by George Koob, Richard F Thompson & Michel Le Moal.

**Bunge**, S.A. (2009) Conference Report: UC Berkeley Conference on Neurocognitive Development. *Frontiers in Neuroscience.* [*http://frontiersin.org/UC\_Berkeley*](http://frontiersin.org/UC_Berkeley)

**Bunge**, S.A., Mackey, A., & Whitaker, K. (2009) Neurodevelopmental changes in cognitive control and fluid reasoning over childhood. The Cognitive Neurosciences III, edited by Michael Gazzaniga.

**Bunge**, S.A. (2008) Changing Minds, Changing Brains. *Human Development*, 51(3), Editor’s Corner, 51:162–164.

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**Bunge**, S.A. & Kahn, I. Cognition, neuroimaging. In: The Encyclopedia of Neuroscience, 3rd edition, 2004. Adelman & Smith, eds. Elsevier.

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Barrow, M., Jaques, R., Ponischil, K., Lengua, L., & **Bunge**, S.A. (2015) Improved cognitive flexibility after a structured play intervention with a high-risk sample of preschoolers. Available on ResearchGate.

Jenkins, W., De Ley, L., **Bunge**, S., Mann, V., & Siegler, R. (2012) What Young Children Need to Learn About Numbers: Differences in learning style and response to error correction in pre-kindergarten and kindergarten students using an adaptive iPad based learning game.

Jenkins, W., De Ley, L., **Bunge**, S. (2012) Scientific Bases for the Eddy’s Doggy Diner Game. White paper forScientific Learning Corporation.

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**Preregistered studies**

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Ellwood-Lowe, M., Srinivasan, M., & **Bunge**, S.A. (2019) Learning from distractors: Cognitive adaptations to the home environment. *As Predicted.*

Wang, W.C. & **Bunge**, S.A. (2018) Developmental differences in the effect of semantic congruency on episodic memory. *Open Science Framework.*

Brod, G., **Bunge**, S.A., & Hasselhorn, M. (2017) Does making a prediction improve memory? *Open Science Framework.*

Guerra-Carrillo, B., Wendelken, C., Ghetti, S., & **Bunge**, S.A. (2017) The influence of parental education and family in the development of reasoning skills and the lateral fronto-parietal network. *Open Science Framework*.

Whitfield-Gabrieli, S., Wendelken, C., Cutting, L.E., & **Bunge**, S.A. (2016) The intrinsic functional architecture of the brain predicts subsequent change in behavior during typical development. *Open Science Framework*.

Magis-Weinberg, L., Wendelken, C., Ghetti, S., Cutting, L.E., Figley, C.R., Dumontheil, I., Whitfield-Gabrieli, S., **Bunge**, S.A. (2016) Structural and functional connectivity between and within executive control and anterior salience networks over development. *Open Science Framework.*

**Grants**

***Current Support***

**Identifying factors that promote students’ understanding of physical science concepts**

Principal Investigator: Yana Fandakova

Role: Co-PI

Jacobs Foundation Science of Learning Pilot Project

The general aim of the proposed project is to examine how secondary school students learn scientific concepts; our goal at UC Berkeley is to develop eyetracking measures to predict and assess learning in a real-world context.

Period Covered: 06/01/2019 – 05/31/2021  
Location of Project: Max Planck Institute on Human Development

**Mechanisms and Sequential Progression of Task-Switching Plasticity in Middle Childhood**

Principal Investigator: Yana Fandakova

Role: Co-Investigator

Funded by German Research Foundation (DFG)

The goal of this project is to examine brain plasticity in children as a result of intensive practice with task-switching

Period Covered: 06/01/2018 – 06/01/2021

Total Award Amount: 205,220 Euros

**Collaboration: The role of brain connectivity in reasoning development**

Principal Investigators: Wendelken (Research scientist in Bunge Lab) and Bunge

National Science Foundation

Period Covered: 03/01/2016-03/01/2018 – currently in no-cost extension

Description: This grant covers the analysis of multi-modal longitudinal MRI data collected in our lab at UC Berkeley, at UC Davis (Co-I Simona Ghetti), and at Vanderbilt University (Co-I Laurie Cutting), with a view to identifying the changes in structural and functional brain connectivity that support the development of reasoning ability over childhood and adolescence.

Location of Project: University of California, Berkeley

Total Award Amount: $500,000 direct costs

**Jacobs Foundation Advanced Career Research Fellowship**

Principal Investigator: Silvia Bunge, Ph.D.

Period Covered: 2016-2018

Description: Awarded to the most innovative mid-career researchers working on child and youth development. Proposal focused on investigating individual variability in responsiveness to different kinds of cognitive training in socioeconomically disadvantaged children, both in terms of cognitive functioning and academic achievement.

Location of Project: University of California, Berkeley

Total Award Amount: 400,000 Swiss Francs

**Alexander von Humboldt Research Award**

Principal Investigator: Silvia Bunge, Ph.D.

Location of Project: Max Planck Institute of Lifespan Psychology in Berlin

Description: Awarded annually to 100 scholars in any field and of any nationality. This research award will support research on brain plasticity in children, assessing the effectiveness of an intervention aimed at boosting reasoning skills and strengthening the underlying brain network.

Period Covered: 2016-2018

Total Award Amount: 60,000 Euros

**Contributions of Executive Function Subdomains to Mathematical Learning and Literacy in the Classroom: Assessment and Training**

Principal Investigators: Adam Gazzaley and Melina Uncapher, UCSF

Role: Co-investigator

Source of Support: NSF Science of Learning: Collaborative Network

Description: Our collaborative network aims to clarify how the multiple domains of executive functions (EFs) contribute to individual differences in learning of math and reading skills in middle childhood.

Period Covered: 10/01/15-10/01/18

Location of Project: University of California, San Francisco

UC Berkeley subaward: $59,853

**Bidirectional Relations: Bilingual and Socio-Emotional Development in Dual Language Learners**

Principal Investigators: Qing Zhou, Yuuko Yuchikoshi

Role: Co-Investigator

Proposed source of support: National Institute of Minority Health and Health Disparities

Period Covered: 04/01/2017-03/31/2022

***Submitted***

**How does the human brain represent abstract concepts?**

Principal Investigator: Silvia Bunge; Co-Investigator: Wei-Chun Wang

National Science Foundation, Cognitive Neuroscience program

**The role of prefrontal sulcal morphology and brain network architecture in cognitive development**

Principal Investigators: Kevin Weiner, Silvia Bunge

National Institute on Child Development, R21 proposal

***Completed Grants***

**Relational reasoning: Neural mechanisms, development, & plasticity**

Principal Investigator: Silvia Bunge, Ph.D.

Source of Support: James S. McDonnell Foundation Scholar Award

Period Covered: 08/01/11-08/01/17

Location of Project: University of California, Berkeley

Description: This Scholar Award supports several new lines of inquiry in the area of relational reasoning.

Total Award Amount: $600,000

**Neural Development of the Fronto-Temporal Episodic-Memory Network in Childhood**

Principal Investigators: Simona Ghetti, Ph.D. and Silvia Bunge, Ph.D.

Source of Support: Submission to National Institute of Mental Health in July 2010

Period Covered: 06/07/2011-06/06/2016

Description: This project aims to examine changes in hippocampal structure, function, and connections that underlie episodic memory development.

Location of Project: UC Davis; sub-award to UC Berkeley

Total Award Amount: $2,842,260. UC Berkeley subaward: $711,765

###### Neural Changes Underlying the Development of Fluid Reasoning

###### Principal Investigators: Silvia Bunge and Emilio Ferrer

Source of Support: NINDS R01, NS057146-01

Total Award Amount: $1,093,750, Total Award Period Covered: 07/01/07-12/31/12

Location of Project: University of California, Berkeley

Description: This grant focuses on longitudinal changes in brain structure and function that lead to developmental improvements in fluid reasoning

**Executive Function and Frontal Cortex**

Principal Investigator: *Mark D’ Esposito*; Role: Co-Investigator

Source of Support: P01 National Institute of Neurological Disorders and Stroke NS040813

Total Award Amount: $7,559,148, Total Award Period Covered: 12/01/07-11/30/12

Location of Project: University of California, Berkeley

Description: This program project covers research on the organization and functions of lateral prefrontal cortex.

**Neural Mechanisms of Cognitive Control and Reward-based Learning in Children with Tourette Syndrome**

Principal Investigator: *Silvia Bunge, Ph.D.*

Source of Support: Tourette Syndrome Association

Total Award Amount: $75,000 Total Award Period Covered: 6/18/10-7/18/11

Location of Project: University of California, Berkeley

Description: This grant focused on the neural basis of Tourette syndrome.

**Effects of Early Damage to Prefrontal Cortex**

Principal Investigators: *Jacob Neufeld, M.D. and Silvia Bunge, Ph.D.*

Total Award Amount: $50,000

Source of Support: Children’s Hospital Oakland Research Institute

Location of Project: Children’s Hospital Oakland & University of California, Berkeley

Description: This award provided seed funds for a new project tracking the cognitive outcomes of children with early focal brain injury

**Effects of early damage to prefrontal cortex: Implications for criminal responsibility**

Principal Investigators: *Silvia Bunge (P.I.) & Robert Knight (co-P.I.)*

MacArthur Law and Neuroscience Project

Total Award Amount: $80,500

**Brain maturation subserving cognitive control development**

Principal Investigator: Silvia Bunge

National Science Foundation (0448844) 04/01/2005 – 04/01/2008

Total Award Amount: $450,000

**Neural Underpinnings of Deficient Cognitive Control in Developmental Disorders Affecting Frontostriatal Circuitry**

Principal Investigator: Silvia Bunge 06/04 – 06/09

John Merck Scholarship in Developmental Disabilities

Total Award Amount: $300,000

**Neural substrates of the development of recognition memory**

Principal Investigator: Simona Ghetti, UC Davis, 2007 – 2009

R03 funded by NICHD (R03HD054636-01).

Role: Co-PI

***Co-Investigator or Consultant on Grant Proposals***

**Science-based Innovation in Learning Center for English Language Learners and Learning Disabilities**

Principal Investigator: Fumiko Hoeft

Proposed source of support: University of California Multicampus Research Programs and Initiatives

1/1/2017-12/31/2020

Role: Consultant

**Executive function and brain maturation in children with severe congenital heart disease: A window of opportunity for intervention**

Principal Investigator: Bea Latal

Funded proposal (April 2017), Swiss National Science Foundation

Role: Project partner (i.e., collaborator)

**The interaction of brain structure and sleep neurophysiology in regulating the neural substrates of inattention symptoms in pediatric ADHD**

Principal Investigator: Jared Saletin

Funded K01 Award (Summer 2016)

Role: Consultant

**Cognitive and Neural Flexibility in Autism**

Principal Investigator: Lucina Uddin

Funded BRAINS R01

Role: Advisory Board member

**Collaborative Research: Domain-General and Domain-Specific Training to Improve Children’s Mathematics**

Principal Investigators: Susanne Jaeggi & Geetha Ramani

Funded NSF grant

Role: Advisory Board member

**Analogical Reasoning in High Functioning Autism Spectrum Disorders**

Principal Investigators: Adam Green, Ph.D. and Chandan Vaidya, Ph.D.

R03 slated for resubmission

**Mesure de l'impact d'un programme d'intervention sur la réorganisation cérébrale post-TCC pédiatrique à l'aide de la connectivité fonctionnelle**

Principal Investigator: Miriam Beauchamp, Ph.D.

Quebec Bioimaging Network submission slated for submission

**A Network Approach to Study Brain Plasticity in Children with Cognitive Training**

Applicant: Olga Tymofiyeva

K99 Application to NICHD submitted in February 2013

Role: Collaborator

**Translation of Cognitive Neuroscience to Rehabilitation for Patients with Traumatic Brain Injury**

Principal Investigators: *Anthony Chen, M.D. and Mark D’Esposito, M.D.*

Department of Defense FY07 Intramural TBI Investigator-Initiated Research Award. Award Number W81XWH-08-2-0088. 08/01/2008 – 30/08/2012.

**Longitudinal effects of treatment on brain function in Tourette Syndrome**

Principal Investigator: Bradley Schlaggar

R21 funded by NIMH (R21MH091512)

**The impact of reappraisal ability in the adjustment to stressful life events in a community sample**

Principal Investigator: Iris Mauss R21 funded by NIA 04/2008 – 04/2010

***Unfunded proposals***

**Characterizing Effects of Inequality on Brain Development & Strengthening Resilience against Adversity**

Principal Investigators: Linda Wilbrecht, Silvia Bunge

Proposed source of support: Vice Chancellor for Research, UC Berkeley

**Pediatric Acquired Brain Injury: Cognitive Deficits and Compensatory Mechanisms**

Principal Investigators: Silvia Bunge, Ph.D., Kenneth Martin, M.D., Elysa Marco, M.D.

NIH R01 submission

**Effects of Fluid Reasoning Training on Neurocognitive Function and Academic Achievement**

Principal Investigator: Silvia Bunge, Ph.D.

NSF submission

**Longitudinal interrelations between fluid reasoning and school achievement: Mediators of trajectories of reading and mathematics**

Principal Investigators: Emilio Ferrer, Ph.D.; Co-PI: Silvia Bunge, Ph.D.

Institute of Education Sciences submission

**Invited Talks (Last Five Years)**

2019 Child Development Center, University Children’s Hospital, Zürich

Distinguished Speaker, Psychology Day, Vanderbilt University

Co-Chair, Symposium at Cognitive Neuroscience Society

2018 UC-Stanford Precision Learning Center IMBES 2018 Satellite Symposium

Symposium at International Mind, Brain & Education conference

Early Learning Summit, Peninsula Family Leaders, San Mateo County

Science of Learning Workshop, Max Planck Institute in Berlin

Latin American School on Education, Cognitive and Neural Sciences

Keynote speaker, McGill Healthy Brains for Healthy Lives Initiative Inaugural symposium

Jacobs Foundation Research Fellows meeting, Marbach, Germany

Invited address, Association for Psychological Sciences

2017 Robert and Russell Moody Lecture Series, Galveston, Texas

Ambassadors School presentations, Galveston, Texas

Webinar for Directors of California’s Temporary Assistance for Needy

Families program (CalWORKS 2.0)

Symposium, Society for Research on Child Development

Round-table Discussion, Society for Research on Child Development

Jacobs Foundation Research Fellows Meeting, Austin

Society of Experimental Psychologists, Vanderbilt University

Learning and the Brain Conference

2016 Conte Center Outreach series, Harvard University

Max Planck Institute for Lifespan Development, Berlin

Wertheimer Colloquium, Goethe Institute, Frankfurt

Symposium, International Mind, Brain, and Education Society

Jacobs Foundation Research Fellows Meeting: Early Experience and Sensitive Periods in Development, Sicily

Mente y Cerebro: Homenaje a Pio Tudela. De la Psicología Experimental a la Neurociencia Cognitiva. University of Granada

Latin American School on Education, Cognitive, and Neural Sciences, Argentina

2015 Lawrence Hall of Science, Berkeley

Institute of Human Development, UC Berkeley

Max Planck Institute for Lifespan Development, Berlin (two talks)

Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

Center for Lifespan Psychology, Max Planck Institute for Lifespan Development, Berlin

Latin American Society of Neuropsychology, 14th International Congress,

Medellín, Colombia

Webinar for Center on Budget and Policy Priorities, Washington, D.C.

Excellence in Teaching Day, Boston College

Cell Press LabLinks conference, UCSF

Minisymposium at Cognitive Neuroscience Society

Latin American School on Education, Cognitive & Neural Sciences, Chile

UT Dallas Center on Vital Longevity

Keynote address, Spring 2015 Teaching Conference for Graduate

Student Instructors, UC Berkeley

2014 Webinar for Frontiers of Innovation

Symposium chair, International Mind, Brain, & Education Society

Neuroplasticity and Education conference, Vancouver

Jacobs Center Symposium on Productive Youth Development, University of Zurich

Webinar for Center on Budget and Policy Priorities, Washington, D.C.

UC Berkeley Campus Shared Services Brown Bag

UC Office of the President Family Group

4th Latin American School for Education, Cognition, and Neural Sciences, Uruguay

Public lecture, Universidad de la República, Montevideo Uruguay

Learning and the Brain Conference, San Francisco

U.S. Department of Health and Human Services meeting

Lecture for Psychology Graduate Student Instructors, UCB

University of Texas at Austin, Imaging Research Center

Instructor in 1st Summer School, Swiss Graduate School for Cognition,

Learning, and Memory, Weggis, Switzerland

University of California Emeritus Association Luncheon

2013 Flux: The International Congress for Integrative Developmental

Cognitive Neuroscience, Pittsburgh, PA

Max Planck Institute in Human Development, Berlin (2 talks)

ZiF Center for Interdisciplinary Research workshop, Bielefeld, Germany: “Task-driven control of thought and action by working memory”

Expert Consensus on Brain Health, sponsored by the Stanford Center on

Longevity & Max Planck Institute for Human Development

Symposium presentation, Society for Research on Child Development

U Illinois at Urbana-Champaign, Psychology & Beckman Institute

Temple Institute for Learning and Education Sciences & Neuroscience Program, Temple University

3rd Latin American School for Education, Cognitive, & Neural Sciences, Brazil

Learning and the Brain Conference, San Francisco

Distinguished Speaker, Children's Learning Institute, University of Texas Health Science Center, Houston

2012 Stanford University School of Education Colloquium

NIMH Early Experience, Stress & Neurobehavioral Development Center

Distinguished Scientist Lecture, U Pittsburgh Dept of Psychiatry

Princeton University Department of Psychology

Workshop on “Micro- and Macro-perspectives of Cognitive Control”, Humboldt University, Berlin

Leadership Summit, Association of California School Administrators Region 6: Cultivating Educational Leaders for Today and Tomorrow

University of Oregon, Department of Psychology Colloquium

Children’s Home Society and ChildHaven, Seattle

2nd Latin American School for Education, Cognition, and Neural Sciences, Argentina

Sociedad Científica de Argentina, Buenos Aires

2011 Building Caregiver Capacities meeting with healthcare providers and

policymakers from the State of Washington, Seattle

37th Minnesota Symposium on Child Psychology: Developing Cognitive Control Processes: Mechanisms, Implications, and Interventions

Aspen Brain Forum/New York Academy of Sciences meeting

Margaret and Paul Baltes Memorial Conference on Life-Span Brain Plasticity and Cognition, Wayne State University

Seminar, Lifespan Psychology Group, Max Planck Institute, Berlin

Nobel Forum symposium, “Boosting the Brain”, Stockholm

Basque Center on Cognition, Brain, and Language, San Sebastian

International Scientific Meeting on Attention (RECA VIII), Sevilla

UCSD Cognitive Science Colloquium

Contra Costa Office of Education

Vanderbilt Kennedy Center Lecture Series on Human Development and

Developmental Disabilities

Pennsylvania State University Neuroscience Seminar Series

Learning and the Brain Conference, San Francisco

Duke Institute for Brain Sciences’ Cognitive and Affective

Control, Seminar series

Cambridge University Neuroscience seminar

Experimental Psychological Society, London

2010 National Scientific Council on Child Development

Seminar at the University of Frankfurt Department of Psychology

International Max Planck Research School LIFE, Berlin

Symposium speaker, Society for Neuroscience

Symposium speaker, Child Neurology Society

2009 Invited talk at National Institute on Mental Health

Expert meeting, “Methods and Challenges in Developmental Neuroimaging”, Amsterdam (*unable to attend*)

Neuroscience Institute seminar, Princeton University

Neuroscience and Cognitive Sciences seminar, U Maryland, College Park

Learning and the Brain Conference, “The Social Brain and Learning”

Colloquium, Max Planck Institute for Human Development, Berlin

Pediatric Neuropsychology Seminar, UCSF

2008 Cognitive Science Colloquium, University of Arizona, Tucson

Symposium, Memory Disorders Research Society, St. Louis

Tamagawa Research Institute, Tokyo

Speaker, Summer Institute in Cognitive Neuroscience (for contributors to “The Cognitive Neurosciences III”, edited by Michael Gazzaniga), Tahoe

RAMBLE Cognitive Neuroscience group meeting, UC Berkeley

Discussant, Peter Thiel’s Cartesian Club, San Francisco

Days of Molecular Medicine symposium, Stockholm (*declined*)

International Summer Campus, Korea University (*declined*)

Washington University, Neuroscience seminar series

University of Michigan, fMRI Seminar Series

San Lorenzo School District meeting for elementary school principals

Parent-Teacher Association, Rosa Parks Elementary School, Berkeley

Learning and the Brain Conference, San Francisco

Neuropsychology Brown Bag Lunch, Martinez VA

Learning Brain Expo, San Francisco

**Conference and Workshop Leadership/Involvement**

2017 – present Secretary of International Mind, Brain, and Education Society

2017 – 2018 Co-organizer, Latin American School on Education, Cognitive & Neural Sciences

Co-Chair, Flux Conference program committee; Meeting co-organizer

2015 Co-Organizer, Social Issues Roundtable at the Society for Neuroscience

2014 – 2017 Board of Directors, Flux: Developmental Cognitive Neuroscience Society

2014 – present Board member, International Mind, Brain, & Education Society

Symposium Chair, International Mind, Brain, & Education Society

2014 – present Steering Committee for Latin American School of Education,

Cognitive and Neural Sciences

2013 Panel host, Science Communication and Science Policy, Beyond

Academia conference for UCB graduate students

2012 – Organizer, CHILD Research Center Public Lecture series

2011 Course Director for Week 2 of Summer Institute in Cognitive Neuroscience, with 70+ fellows from the U.S. and abroad, and multiple invited faculty. Topic: “Numerical and relational processing.”

Frontiers of Innovation Workshop, Harvard

2010 Frontal Lobes Conference 2010, Rotman Institute, Toronto; Speaker &

Co-organizer of symposium on Prefrontal Development

Gordon Research Conference on Neurobiology of Cognition

“Reprogramming the Human Brain” Conference, Dallas

Robert Wood Johnson Foundation Forum on the Future Impact of

Neuroscience and Behavior Change

2009 Organizer, UCB Conference on Neurocognitive Development (over 200

participants and 60 presentations)

2008 – 2014 Co-Sponsor, Learning and the Brain Conference, San Francisco

2008 – 2011 Young Investigator Awards Committee, Cognitive Neuroscience Society

Talk Session Committee, Cognitive Neuroscience Society

2009 Reviewer for submissions to Society for Research on Child Development

Panel 3: Childhood: Biological and Cognitive Processes

2006 Judge, travel fellowships, SF Bay Area Chapter, Society for Neuroscience

Chair, Slide Session, Society for Neuroscience

2005 Chair, Minisymposium at Society for Neuroscience

Chair, Invited Symposium at American Psychological Society

2004 – 2005 Travel fellowship committee for UCD Chapter of Society for Neuroscience

2003 – 2004 Co-organizer, “Multiple perspectives on Decision making” conference

Co-organizer, Annual Psychology Department Conference

Representative, Local Chapter of the Society for Neuroscience (UCD)

**Service to Profession**

***Editorial Service***

2018 – 2019 Co-Editor, Special Issue of Developmental Cognitive Neuroscience

2016 – Associate Editor, Mind, Brain, and Education

~2015 – Ad Hoc Editor, PNAS

2015 – 2016 Co-Editor with postdoctoral fellow Yana Fandakova, Special issue of Mind, Brain, and Education: The relevance of memory research for education

2015 – Associate Editor, Frontiers for Young Minds

2011 – 2012 Co-Editor with Sarah-Jayne Blakemore, Special Issue of *Developmental*

*Cognitive Neuroscience*: Supplement on Neuroscience and Education

2010 – 2011 Co-Editor with Arthur Toga, Book section (6 chapters) on Frontal Lobe

Development for Principles of Frontal Lobe Functions, 2nd Edition, Edited by

Donald Stuss & Robert Knight, Oxford University Press, 2012.

2012 – 2014 Editorial Board member, Psychological Science

2011 – Advisory Board member, Developmental Cognitive Neuroscience

2009 – Editorial Board member, *NeuroImage*

2009 – 2010 Guest Editor, Special Issue of *Frontiers in Human Neuroscience*: The

Developing Human Brain

2008 – 2011 Associate Editor for *Frontiers in Human Neuroscience*

2007 – 2008 Consulting Editor for *Cognitive, Affective, and Behavioral Neuroscience*

2004 – 2005 Guest Editor for Special Issue of *Cognitive Brain Research*: Multiple

Perspectives on Decision Making,23(1): 1-151, 2005.

***Reviews***

*Journals*

*Acta Psychologica; Archives of General Psychiatry; Behavioral Neuroscience; Biological Psychiatry; Biological Psychology; Brain; Brain and Cognition; Cerebral Cortex; Child Development; Child Development Perspectives; Cognition; Cognitive, Affective & Behavioral Neuroscience; Cognitive Brain Research; Cognitive Development; Cortex; Current Biology; Current Directions in Psychological Science; Developmental Cognitive Neuroscience; Current Opinion in Behavioral Sciences; Developmental Psychology; Developmental Science; eLife; Experimental Brain Research; Emotion; European Journal of Neuroscience; Frontiers in Human Neuroscience; Frontiers in Neuroscience; Frontiers in Systems Neuroscience; F1000Research; Journal of Adolescence; Journal of Child Psychology and Psychiatry; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Neurophysiology; Journal of Neuroscience; Mind, Brain, & Education, Monographs of the Society for Research on Child Development; Nature Human Behaviour; Nature Communications; Nature Communications Biology; Nature Neuroscience; Nature Partner Journal Science of Learning; Nature Reviews Neuroscience; NeuroImage; Neuron; Neuropsychologia; Neuropsychology; Neuroscience; Neuroscience & Biobehavioral Reviews; Quarterly Journal of Experimental Psychology; Personality and Individual Differences; Proceedings of the National Academy of Sciences; Psychological Bulletin; Psychological Review; Psychophysiology; Psychological Research; Psychological Science; PLoS One; Science; Trends in Cognitive Sciences; Trends in Neuroscience and Education*

NIH Study Sections

Ad-hoc committee member for Child Psychopathology & Developmental Disabilities; Cognition and Perception; NIMH Child Interventions Review; Physiology and Modeling Review; Pediatric Functional Neuroimaging Research Network; NIMH Pathway to Independence (K99); Biobehavioral and Behavioral Processes Special Emphasis Panel; Sensory and Motor Neuroscience, Cognition and Perception Fellowship Study Section (F02B); NIH New Innovator Awards; NICHD Program Project Review

NSF grant programs

Cognitive Neuroscience Initiative; Research on Learning and Education; Perception, Action & Cognition; Behavioral Systems Cluster; CAREER award; Research and Evaluation on Science Education; Developmental and Learning Sciences

Other funding agencies

France-Berkeley Fund; Israel Science Foundation; AXA Research Fund (European funding agency); Medical Research Council (U.K.); Netherlands Organization for Scientific Research (NWO); Natural Sciences and Engineering Research Council of Canada (NSERC); Alexander von Humboldt Foundation, Germany; German Research Foundation (DFG); Templeton Foundation; Wellcome Trust Foundation; Swiss National Science Foundation; Canada First Research Excellence Fund; Canada Research Chairs Program

Review of book proposals

Guilford Press; Cambridge University Press; Oxford University Press

Summaries for book jackets/endorsements

The Agile Mind”, by Wilma Koutsdaal

“Origins and Development of Recollection: Perspectives from Psychology and

Neuroscience”, edited by Simona Ghetti & Patricia Bauer

Executive Function: Development Across the Life Span, edited by Sandra A. Wiebe and

Julia Karbach

***External Advisory Roles***

2018 External reviewer for 5-year review of Center for Mind and Brain, UC Davis

2015 Invited participant, White House Office of Science and Technology Policy

Workshop on Neuroscience and Learning

2014 NICHD Reasoning Work Group Meeting

2013 Advisory Board Member, The Synapse Project, The Aspen Brain Forum (aimed at mentoring aspiring female neuroscientists)

2012 External Consultant, DFG (German Science Foundation) Research Group

on "Conflict as Processing Signal"

External Dissertation Committee Member, Humboldt University, Berlin

2010 – External Advisor, Max Planck Institute in Human Development

2010, 2012 External Advisory Committee for NIMH Center on "Executive Function

and Dysfunction" at University of Colorado at Boulder

2009 – 2012 Consultant on development of Academic Readiness tools, Scientific

Learning Corporation

2009 Robert Wood Johnson Forum: Neuroscience & Behavior Change

***Expert Testimony***

2014 Contribution to Amicus Brief for the Supreme Court of Ohio, submitted by Drs. Luna,

Nelson III, Bunge, Galván, and Spear (re: Ohio v. Moore)

2011 Expert witness in the CA Senate on adolescent brain development, CA Senate Bill 9

2010 Contribution to American Medical Association Amicus Brief for the Supreme

Court on life without parole sentencing for adolescents (re: Graham v. Florida)

2010 Co-author of statement on adolescent brain development signed by multiple leading

developmental cognitive neuroscientists

**Departmental and University Service**

***Service to Graduate Programs***

Service related to graduate admissions & recruitment, modifying program requirements, monitoring student progress through the program, advocating on behalf of students, advice on students’ extramural funding applications & job applications, letters of reference, equitable distribution of funds & teaching assignments, etc.

2016 – 2017 Advisory Committee on Graduate and Postdoctoral Professional Development, Graduate Council, UCB Senate Sub-committee

2014 – 2016 Member, Graduate Council, UCB Senate Committee

2011 – 2016 Head Graduate Advisor, Department of Psychology, UCB

2009-10, 14-15 Cog Neuro Graduate Advisor, Neuroscience Graduate Program, UCB

2008 – 2011 Neuroscience Program Admissions Committee, UCB

Neuroscience Graduate Recruitment speaker

2004 – 2006 Graduate Student Advisor, Department of Psychology, UCD

***Additional Departmental & University Service***

2017 – present Member, Committee for the Protection of Human Subjects (CPHS-I)

Jan-June 2018 Chair, Committee for the Protection of Human Subjects (CPHS-I)

2017 – 2018 Search Committee, Faculty position in Social Development

2014, 2016 Panelist, *Beyond Academia* Conference

2015 Reviewer for Summer Undergraduate Research Fellowship program

2014 – Executive Committee member,Institute of Human Development

2012 – Founding member, CHILD Research Center

2011 – 2012 Vice Chair, Committee for the Protection of Human Subjects (CPHS-I)

2011 – Faculty Editor, PsychologiCAL newsletter

2009 – 2014 Executive Committee, Helen Wills Neuroscience Institute, UC Berkeley

2008 Search committee: Director of Institute of Human Development, UCB

2008 – 2009 Faculty search committee, Sensation & Perception, Psychology Dept.

2007 – 2009 Committee for the Protection of Human Subjects, UCB

2007 – Faculty Merit Reviews, Psychology Department

2003 – 2004 Faculty search committee, Center for Mind and Brain, UCD

Faculty search committee, Social-Personality area of Psychology, UCD

2004 – 2005 Faculty search committee, Developmental area of Psychology, UCD

2004 - 2006 Member, Department Chair’s Advisory Committee, UCD

2003-2005 Member, Safety committee, UC Davis Imaging Research Center

2008, 2009 CUSH Regents' and Chancellor's Scholarship Subcommittee, UCB

**Teaching Experience**

2018 Developmental Cognitive Neuroscience (PSYCH 290)

The Developing Brain (PSYCH 125)

Developmental Proseminar (PSYCH 240, Co-instructor with Srinivasan, Gopnik)

2017 Lifestyle Influences on Brain Health (PSYCH 290)

Professional Development for Graduate Students (PSYCH 293)

Three-day course in Asunción, Paraguay, organized by the Asociación

Paraguaya de Neuropsicología

2016 Developmental Proseminar (PSYCH 240, Co-instructor with Srinivasan)

The Developing Brain (PSYCH 125)

2015 Sensitive Periods & Experience-Dependent Brain Plasticity (PSYCH 290, Co-instructor with Linda Wilbrecht)

2012, 2014 Undergraduate lecture course: The Developing Brain (PSYCH 125)

2013 Developmental Proseminar (PSYCH 240, Co-instructor with Fei Xu and Mahesh Srinivasan)

2008 – 2013 Professional Development for graduate students (PSYCH 293)

2012 Graduate seminar: The Developing Human Brain (PSYCH 290P)

2009 Developmental Proseminar (PSYCH 240, Co-instructor with Fei Xu and Frederic Theunissen)

Neurological Disorders in Famous Artists (PSYCH 128)

2008 The Developing Brain (PSYCH 125, UCB), Fall 2008

2007 Developmental Cognitive Neuroscience (PSYCH 192)

Developmental Proseminar (PSYCH 240, Co-instructor with Frederic Theunissen and Carla Hudson Kam)

Faculty Sponsor, Brain and Medicine DeCal course

2003 – 2006 Cognitive Neuroscience (PSC 135, Bunge, UCD; 4 times)

2004 – 2006 Cognitive Neuroscience (PSC 261/NSC 223; co-instructor, UCD; 3 times)

***Guest lectures***

2017 UCSF Psychiatry Residents

2015 Introduction to Cognitive Science, UCB (Cog Sci 1)

2012, 2014 Cognitive proseminar: Lecture on Memory Development (Psych 290)

2012 T32 Training Grant, ‘Mental Illness: Core Principles, Mechanisms and

Treatment Development’, UCB (Harvey)

2011 DeCal course for UC Berkeley Undergraduate Journal in Psychology

2010 Max Planck Institute in Human Development, seminar for LIFE fellows

2009 Instructor (20 hours total), Master Program in Cognitive Neuroscience,

Psychology Department, University of Granada, Spain

2008 Riken Brain Science Institute Summer Lecture Course, “Developmental

Foundations of Brain Function and Dysfunction”, Tokyo

2008 Pierce College, a community college in Los Angeles

Social/Personality Proseminar (Chen, UCB; October)

2 lectures, Graduate course in Cognitive Neuroscience, UCSF (Gazzaley)

2007 Developmental Psychology (Markson, UCB)

Developmental Psychopathology (Zhao, UCB)

2006 Cognitive Neuroscience (Wojciulik, UCD)

2005 Medical school Neurobiology course (Kumari, UCD)

2003 Proseminar in Psychology (PSC 200; Goodman, UCD)

2002 Foundations of Human Memory and Learning (Wagner, MIT)

Cognitive Neuroscience (Corkin, MIT)

2001 Developmental Cognitive Neuroscience (Shelton and Turner, Stanford)

* 1. Presentations on neuroscience in local public schools

**Supervision of Students and Postdoctoral Fellows**

***Graduate students***

*Current:*

Elena Leib, Psychology

Monica Ellwood-Lowe, Psychology (with Mahesh Srinivasan)

Willa Voorhies (with Kevin Weiner), Psychology; Neuroscience training program

Maria Eckstein, Psychology (Advisor for first 2.5 years)

*Doctoral alumni:*

Michael Souza, Psychology, 2009; Associate Professor, Department of Psychology,

University of Toronto at Scarborough

Allyson Mackey, Neuroscience, 2012; Postdoctoral fellow at MIT, Assistant Professor at the University of Pennsylvania beginning in 2016

Kirstie Whitaker, Neuroscience, 2012: Postdoc at Cambridge University

Anna Luerssen, Psychology, 2013 (co-Advisor with Ozlem Ayduk); Assistant Professor at

Lehman College, CUNY as of Summer 2013

Zdeña Op de Macks, Psychology, 2016 (co-Advisor with Ron Dahl); Postdoctoral fellow at

the University of Oregon as of Summer 2016

Alison Miller Singley, Psychology, 2017

Chloe Green, School of Education, 2017 (secondary advisor, with Frank Worrell);

Postdoctoral fellow in San Diego as of Summer 2017

Susan Whitfield-Gabrieli, Psychology, 2017 (reentry student)

Belén Guerra Carrillo, Psychology, 2018; Insight Data Science Fellow; Data Scientist at

Grammarly

Doctoral fellowships:

Elena Leib: Berkeley Fellowship, 2018-2020

Monica Ellwood-Lowe: NSF Graduate Fellowship, started 07/2017; Berkeley Fellowship

Belén Guerra Carrillo: NSF Graduate Fellowship, started 07/2012

Allyson Mackey: NSF Graduate Fellowship, 07/2009-07/2012

Sarah Munro: NSF Graduate Fellowship, 07/2009-07/2012

Maria Eckstein: German Academic Exchange Service (DAAD) Predoctoral Fellowship

Alison Miller Singley: Research in Cognition and Mathematics Education Fellowship

Chloe Green: Research in Cognition and Mathematics Education Fellowship

Kirstie Whitaker: Fulbright Foundation Graduate Fellowship

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***Postdoctoral fellows***

*Current*

Wei-Chun Wang, Ph.D. from Duke University

Elena Galeano Weber, Ph.D. from Goethe University in Frankfurt

*Alumni*

Ariel Starr, Ph.D. from Duke University. Postdoctoral NRSA Fellow. *Current position:* Assistant Professor at University of Washington, starting 09/2019

Michael Vendetti, Ph.D. from UCLA. 2013-2015. *Current position: Research analyst at Oracle.*

Carter Wendelken, Ph.D. from UC Berkeley. Postdoctoral fellow, 2003-2008; Staff research associate, 2008-2016. *Current position: Staff research scientist at Vicarious*.

Yana Fandakova, Ph.D. from Max Planck Institute for Human Development. 2014-2016 (Co-mentors: Simona Ghetti and Silvia Bunge). *Current position:*Research Scientist at Max Planck Institute for Human Development

Chris Blais, Ph.D. from University of Waterloo. NSERC Postdoctoral Fellowship from Canadian government. 2008-2010. *Current position: Assistant Research Professor at Arizona State University.*

Elizabeth O’Hare, Ph.D. from UCLA. ~2006-2008. *Current position: Program Officer, Board on Higher Education and Workforce, National Academies of Science.*

Eveline Crone, Ph.D. from the University of Amsterdam. Postdoctoral Fellow 2003-2005. *Current position:*Full Professor at Leiden University, the Netherlands

**Visiting scholars**

Natália Mota, Ph.D. student at the University of Natal, Brazil. 2-week residence in the lab.

Agnes Wiberg, Exchange student from Lund University in Sweden

Patricia Christian, Master’s student at Ludwigs-Maximilians-University in Munich. 3-month residence in the lab funded by a GEO Partner Programm from LMU (2016)

Lucia Magis Weinberg, Ph.D. student at University College London. 3-month residence in lab funded by a Bogue Fellowship from UCL (2016)

Martina Stüder, Ph.D. from University of Berne. Funded by Swiss National Science Foundation Postdoctoral Fellowship. (2015-2016).

Garvin Brod, Ph.D. 3-month & 1-month residences in lab funded by the German Academic Exchange Service (DAAD). Now an Assistant Professor at the Goethe University in Frankfurt

Nils Nyberg, Exchange student from Lund University in Sweden

Maria Eckstein, Master’s student at Ludwigs-Maximilians-University in Munich

Zdeña Op de Macks, Master’s student at Leiden University

*Sabbatical visitors:*

Prof. Yuko Munakata (University of Colorado at Boulder)

Prof. Pio Tudela (University of Granada)

***Lab managers/ research assistants***

Heather Anderson (Graduate student at University of Oregon), Jesse Niebaum (NSF Graduate Fellow at CU-Boulder), Jordan Tharp (Graduate student at UC Berkeley), Maia Barrow, Susanna Hill, Chloe Green (Ph.D. from UC Berkeley); Samantha Wright; Carol Baym (Ph.D. from U Illinois), Sarah Donohue (Ph.D. from Duke University; Research Scientist at Max Planck Institute in Tübingen)

***Graduate Student Qualifying Exam & Thesis Committee Membership***

*Qualifying Exam Committee Membership*

Falk Lieder, Neuroscience, UCB; Christopher Adalio, Psychology, UCB (Chair); Andrew Peckham, Psychology, UCB; Wren Thomas, Neuroscience, UCB; Kimberly Long, Neuroscience, UCB; Shawn Marks, Neuroscience, UCB; Kimberly Russo, Psychology, UCB; Joshua Sussman, School Psychology, School of Education, UCB; Amanda McKerracher, School Psychology, School of Education, UCB; Anna Luerssen, Psychology, UCB (Chair); Jenny Chai, Psychology, UCB (Chair); Linh Dang, Neuroscience, UCB (Chair); Drew Fagen, Neuroscience, UCB; Isaac Liao, Neuroscience, UCD; Chung-Hay Luk, Neuroscience, UCB; Benjamin Mullin, Psychology, UCB; Zdena Op de Macks, Psychology, UCB (Co-Chair); Stacey Seidel, Neuroscience, UCD; Shaun O’Grady, Psychology, UCB (Chair); Joe Winer, Psychology (Chair), UCB; Ruairidh Battleday, Neuroscience, UCB; Maria Eckstein, Psychology (Chair); Wan Chen Lin, Psychology (Chair); Megan Norr, Psychology (Chair); Yuan Meng, Psychology (Chair); Monica Ellwood-Lowe, Psychology, UCB (Chair)

*Preliminary Written & Oral Exams*

Examiner for all 2nd-year graduate students in Neuroscience Program at UCD for 2004 and

2005. Approximately 30 students total, each participating in a 2-hour exam.

*Dissertation Committee Membership*

Christopher Adalio, Psychology, UCB; Jamil Bhanji, Psychology, UCD; Robert Blumenfeld, Psychology, UCD; Maya Cano, Neuroscience, UCB; Jenny Chai, Psychology, UCB; Lina Haldar-Chopra, Education, UCB; Kate Frankel, Education, UCB; Chloe Green, School Psychology, UCB; Anett Gyurak, Psychology, UCB; Bona Kang, Education, UCB; Heesoo Kim, Neuroscience, UCD; Isaac Liao, Neuroscience, UCD; Chung-Hay Luk, Neuroscience, UCB; Allyson Mackey, Neuroscience, UCB (Chair); Amanda McKerracher, School Psychology, School of Education, UCB; Yuan Meng, Psychology; Meghan Miller, Psychology, UCB (Master’s thesis); Sarah Munro, Neuroscience, UCB (Chair); Zdena Op de Macks, Psychology, UCB (Co-Chair); Andrew Peckham, Psychology, UCB; Anne Richards, Neuroscience, UCD; Stacey Seidel, Neuroscience, UCD; Michaela Simpson, Psychology, UCB; Michael Souza, Psychology, UCB (Chair); Bong Walsh, Neuroscience, UCD; Kirstie Whitaker, Neuroscience, UCB (Chair)

*Reader for Master’s Degrees*

Brian Waismeyer, Psychology, UCB; Paul Meinz, Psychology, UCB; Benjamin Mullin, Psychology, UCB

*External Ph.D. Examiner*

Yana Fandakova, Humboldt University, Berlin

Garvin Brod, Humboldt University, Berlin

Natália Mota, Universidade Federal do Rio Grande do Norte, Natal

***Undergraduate Mentoring***

*Undergraduate Honors students*: Lara Taniguchi, Gowri Swamy, Jeffrey Crawford, Bryan Wu (co-advised with Dr. Elysa Marco at UCSF), Orly Perlstein (Warner Brown Awardee for top undergraduate thesis in Psychology at UCB, 2014), Sally Bae, Layne Bernstein, Connor Lemos, Natalie De Shetler, Sasha Gupta, Justin Louie, Mehdi Bouhaddou, Sandeep Sahblock, Bryan Matlen, Michael Souza