Silvia A. Bunge, Ph.D.

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

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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 2016 2015 2015	Selected as a Fellow of the Association for Psychological Science Elected to Society of Experimental Psychologists Jacobs Foundation Advanced Career Research Fellowship Alexander von Humboldt Research Award (100 scholars in any field)
2013	Elected to International Mind, Brain, and Education Society Board of Directors
2012 2011	Presidential Chair Fellow, Center for Teaching and Learning, UC Berkeley James S. McDonnell Foundation 21 st Century Science Initiative, Scholar Award in Understanding Human Cognition (15 cognitive scientists worldwide)
2011 – 18	National Scientific Council on the Developing Child member (11 members)
2010 – 16	1 st 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	
1996	Distinction in Biology; Graduation with Honors from Yale College

Publications

Edited books

Bunge, S.A. & O'Hare E.D. (Eds.) <u>The Developing Human Brain.</u> Frontiers Research Topic. 2012.

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

Textbook in preparation

Bortfeld, H. & **Bunge**, S.A. Fundamentals of Developmental Cognitive Neuroscience. Invited submission to Cambridge University Press. Completion expected in early 2021.

Peer-reviewed empirical papers

Cited over 17,000 times (*h-index* = 59; *i10-index* = 99 (Google Scholar, 11/05/2020).

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

106. Wang, W.-C., Hsieh, F., Swamy, G., & **Bunge**, S.A. (2020) Transient neural activation of abstract relations on an incidental analogy task. *Journal of Cognitive Neuroscience.*

105. Hao, L. et al. (2020) Automatic labeling of cortical sulci using spherical convolutional neural networks in a developmental cohort. *Proc IEEE Int Symp Biomed Imaging.*

104. Gruber, Mendle, et al. (2020) The future of women in psychological science. [One of 70 co-authors]. *Perspectives in Psychological Science.*

103. Galeano Weber, E., Klegowits, H., Fisher, A., & **Bunge**, S.A. (2020) Insights into visual working memory precision at the feature- and object-levels from a hemispheric encoding manipulation. *Quarterly Journal of Experimental Psychology*

102. **Bunge**, S.A., and Leib, E. (2020) How does education hone reasoning ability? *Current Directions in Psychological Science*. Published Feb 19. <u>https://doi.org/10.1177/0963721419898818</u>

101. Whitfield-Gabrieli S., Wendelken C., Cutting L., **Bunge** S.A. (2020) Intrinsic Brain Architecture Predicts Future Attentional and Mood Problems in a Normative Pediatric Sample. *JAMA Psychiatry.* doi:10.1001/jamapsychiatry.2019.4208. <u>https://news.berkeley.edu/2020/01/03/brain-scans-childrens-mental-health/</u>

100. Lee JK, Fandakova Y, Johnson EG, Cohen NJ, Bunge SA, Ghetti S. (2020) Changes in anterior and posterior hippocampus differentially predict item-space, item-time, and item-item memory improvement. *Developmental Cognitive Neuroscience*. 99. Brod, G., Breitwieser, J., Hasselhorn, M., & **Bunge**, S.A. (2019). Being proven wrong only elicits learning among children with higher executive function skills. *Developmental Science*. DOI: 10.1111/desc.12916.

97. 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*

96. Mota, N., Callipo, R., Leite L., Torres, A., Weissheimer, J., **Bunge** S.A., Copelli, M., & Ribeiro, S. (2019). Speech organization during literacy acquisition predicts reading fluency and verbal short-term memory performance. *Mind, Brain and Education.* Published July 1, 2019. https://doi.org/10.1111/mbe.12208

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. *Nature Partner Journal: Science of Learning*. Press release: <u>http://news.berkeley.edu/2018/10/18/lsat-eye-tracking/</u>

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. Press coverage: https://www.sciencedaily.com/releases/2017/08/170807082201.htm

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 18;114(29):7582-7587.

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., Wilbrecht, L., Kriegsfeld, L.J., Kayser, A.S., & Dahl, R.E. (2016) Risky decision-making in adolescent girls: The role of pubertal hormones and reward circuitry. *Psychoneuroendocrinology*. 74:77-91

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. Aug 17;74:77-91. doi: 10.1016/j.psyneuen.2016.08.013.

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 1;27(3):2139-2153.

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.

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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.

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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.

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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.

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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.

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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

Younger, J.W., Anguera, J. A., **Bunge**, S. A., Hoeft, F., McCandliss, B. D., Mishra, J., Rosenberg-Lee, M., Ferrer, E., Gazzaley, A., Uncapher, M. R. (under review). Development

of executive function and its relation to academic achievement in middle childhood: a largescale, in-school, longitudinal investigation.

Wang, W.-C., Taniguchi, L., & **Bunge**, S.A. (under review). Which factors support memory formation during childhood? Probing the contributions of effort and prior knowledge

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

Galeano Weber, E.M., Pakzdad, S., Brod, G., & **Bunge**, S.A. (under review) Physiological indicators of working memory precision: Differential attentional allocation in children and adults.

Haft, S.L., **Bunge**, S.A., Uchikoshi, Y., & Zhou, Q. (under review) Home Literacy Environment and Executive Functions in Chinese American and Mexican American Preschoolers in Head Start.

Manuscripts in progress

Voorhies, W.I., Miller, J.A., Yao, J.A., Bunge, S.A.*, & Weiner, K.S.* (in prep.) Tertiary sulcal depth in human prefrontal cortex predicts reasoning performance. * joint senior authors

Yao, J.K., Voorhies, W.I., Miller, J.A., Bunge, S.A.*, & Weiner, K.S.* (in prep). Sulcal depth in lateral prefrontal cortex predicts verbal working memory in childhood. * joint senior authors

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.

Chapters, commentaries, and other publications

Lingyan Hao, Shunxing Bao, Yucheng Tang, Riqiang Gao, Prasanna Parvathaneni, Jacob Miller, Willa Voorhies, Jewelia Yao, Silvia **Bunge**, Kevin Weiner, Bennett Landman, Ilwoo Lyu (2020) Automatic Labeling of Cortical Sulci Using Spherical Convolutional Neural Networks in a Developmental Cohort. Peer-reviewed conference proceeding, IEEE 17th International Symposium on Biomedical Imaging (ISBI).

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.

Bunge, S.A. (2018) Your eyes reveal more than you know. NPJ Science of Learning Community. <u>https://npjscilearncommunity.nature.com/posts/39983-your-eyes-reveal-more-than-you-know</u>

McLaughlin, K., Mackey, A.P., Fernandes, G., Brown, K., Bühler, J. & **Bunge**, S.A. (2018) Human Brain Plasticity: Future Research Directions and Implications for Children's Learning and Development. Jacobs Foundation White Paper.

Gabrieli, J.D.E., & **Bunge**, S.A. (2017) The stamp of poverty: Growing up in a poor family can leaves its mark on the developing brain. Understanding how and why has important implications for society and educators. *Scientific American Mind*. Jan/Feb 54-61.

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

Bernstein, L.T., Green, C.T., Neufeld, J.A., Sun, P., Martin, K., & **Bunge**, S.A. (2017) Effects of Right Frontal Lobe Injury in Childhood: A Case Study Comparing a Patient and his Twin. Unpublished report available on *ResearchGate*.

Fandakova, Y., & **Bunge**, S.A. (2016) How might we draw connections between research on long-term memory and student learning? Introduction to Special Issue on Education and Neuroscience, Mind, Brain, and Education.

Niebaum, J.C. & **Bunge**, S.A. (2014). Your Brain is Like a Muscle: Use it and Make it Stronger. *Frontiers for Young Minds.* http://kids.frontiersin.org/articles/20/your brain is like a muscle/

Johnson, E.L., Munro, S.E., & **Bunge**, S.A. (2013). Development of neural networks supporting goal-directed behavior. In: Minnesota Symposia on Child Psychology: Developing Cognitive Control Processes: Mechanisms, Implications, and Interventions, Volume 37. Edited by Phil Zelazo and Maria Sera. Wiley Publishers.

Paz-Alonso, P., **Bunge**, S.A., & Ghetti, S. (2013) Emergence of higher cognitive functions: Reorganization of large-scale brain networks during childhood and adolescence. In: <u>Oxford</u> <u>Handbook on Higher Cognitive Functions</u>. Edited by Steven Kosslyn and Kevin Ochsner. Oxford University Press. *Appeared online only due to editorial error.*

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. <u>http://www.dana.org/news/cerebrum/detail.aspx?id=40904</u>

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*

Mackey, A., Raizada, R., & **Bunge**, S.A. (2012). Environmental influences on prefrontal development. In: <u>Principles of Frontal Lobe Functions</u>, 2nd Edition. Edited by Donald Stuss & Robert Knight. Oxford University Press, 2012.

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

Bunge, S.A. & Preuss, T.M. (2010) Evolutionary and developmental issues in cognitive neuroscience. <u>Encyclopedia of Behavioral Neuroscience</u>, 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*

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

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

Bunge, S.A. & Crone, E.A. Neural correlates of the development of cognitive control. In: <u>Neuroimaging in Developmental Clinical Neuroscience</u>. J. Rumsey, & M. Ernst, eds. Cambridge University Press, in press.

Mauss, I.B., **Bunge**, S.A., & Gross, J.J. Culture and Automatic Emotion Regulation. In: <u>Regulating emotions: Social necessity and biological inheritance</u>. S. Ismer, S. Jung, S. Kronast, C. van Scheve, & M. Vanderkerckhove, eds. London: Blackwell Publishing, in press.

Bunge, S.A. & Souza, M.J. Neural representations used to specify actions. In S. Bunge & J. Wallis (Eds.), The Neuroscience of Rule-Guided Behavior. Oxford University Press, 2007.

Bunge, S. A. & Kahn, I. "Cognition, neuroimaging", In: <u>The Encyclopedia of Neuroscience</u>, 4th edition. Adelman & Smith, eds. Elsevier, in press.

Bunge, S. A. & Souza, M.J. "Executive functions: Neuroimaging of", In: <u>The Encyclopedia</u> <u>of Neuroscience</u>, 4th edition. Adelman & Smith, eds. Elsevier, in press.

Bunge, S. A. Foreward to Special Issue: Multiple Perspectives on Decision Making. *Cognitive Brain Research* 23(1): 1, 2005.

Wagner, A.D., **Bunge**, S.A. & Badre, D. (2004) Cognitive control, semantic memory, and priming: Contributions from prefrontal cortex. In: <u>The Cognitive Neurosciences</u>, 3rd ed. **Bunge**, S.A. & Kahn, I. Cognition, neuroimaging. In: <u>The Encyclopedia of Neuroscience</u>, 3rd edition, 2004. Adelman & Smith, eds. Elsevier.

Gabrieli, J.D.E. & **Bunge**, S.A. Mechanisms of memory and amnestic syndromes. In: <u>Diseases of the Nervous System: Clinical Neuroscience and Therapeutic Principles, 3rd Edition</u>, ed. Asbury, McDonald, McArthur, McKhann & Goadsby. Cambridge University Press, 2003.

* Prull, M.W., Gabrieli, J.D.E. & **Bunge**, S.A. Age-related Changes in Memory: A Cognitive Neuroscience Perspective. In: <u>The Handbook of Aging and Cognition II</u>, eds. Craik and Salthouse. Mahwah, NJ: Lawrence Erlbaum Associates 2000.

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 for Scientific Learning Corporation.

Jenkins, W., De Ley, L., Siegler, R., **Bunge**, S., Mann, V. (2011) Scientific Bases for the Eddy's Number Party Game. White paper for Scientific Learning Corporation.

Preregistered studies

Ellwood-Lowe, M., Whitfield-Gabrieli, S., & **Bunge**, S.A. (2019) Predicting cognitive resilience among low-income children from rsfMRI". *As Predicted.*

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

How does the human brain represent abstract concepts?

Principal Investigators: Silvia Bunge, David Kraemer, Keith Holyoak 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

Investigating hidden strengths among children with dyslexia

Principal Investigators: Silvia Bunge, Christa Watson Schwab Dyslexia and Cognitive Diversity Center

Identifying factors that promote students' understanding of physical science concepts

Principal Investigators: Yana Fandakova, Silvia Bunge 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

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

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

<u>Submitted</u>

Collaborative Research: How do students learn to reason like scientists? Principal Investigators: Silvia Bunge, Bryan Matlen National Science Foundation

<u>Consultant</u>

Integration of EF and Mathematical Training Principal Investigator: Michael Cohen, Cignition Role: Consultant

EF+Math program c/o New School Ventures Fund Period Covered: 08/01/2020 – 07/31/2023

Completed Grants

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

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 Émilio 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 Submitted/Completed 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

Talks (2008 onwards)

2020	Analogy seminar series (March)
	UCLA Department of Psychology colloquium (March)
	Helen Wills Neuroscience Institute conference (October)
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, 14 th 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, Unive	rsitv
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	
4 th Latin American School for Education, Cognition, and Neural Scier	ices.
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 1 st Summer School, Swiss Graduate School for Cognitio	n,
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, Germa	ny:
"Task-driven control of thought and action by working memory"	
Expert Consensus on Brain Health, sponsored by the Stanford Center	r on
Longevity & Max Planck Institute for Human Development	
Symposium presentation, Society for Research on Child Developmer	nt
U Illinois at Urbana-Champaign, Psychology & Beckman Institute	
Temple Institute for Learning and Education Sciences & Neuroscience	e
Program, Temple University	
3 rd Latin American School for Education, Cognitive, & Neural Science	₽S,
Brazil	
Learning and the Brain Conference, San Francisco	
Distinguished Speaker, Children's Learning Institute, University of Te	xas
Health Science Center, Houston	
2012 Stanford University School of Education Colloquium	
NIMH Early Experience, Stress & Neurobehavioral Development Cer	iter
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	
2 nd Latin American School for Education, Cognition, and Neural Scien	าตอง
Argentina	1000,
Sociedad Científica de Argentina, Buenos Aires	
2011 Building Caregiver Capacities meeting with healthcare providers and	

	policymakers from the State of Washington, Seattle 37 th 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
2010	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 (<i>declined</i>)
	International Summer Campus, Korea University (<i>declined</i>)
	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 – 2020 2017 – 2018	Secretary of International Mind, Brain, and Education Society Co-organizer, Latin American School on Education, Cognitive & Neural
	Sciences
2015	Co-Chair, Flux Conference program committee; Meeting co-organizer Co-Organizer, Social Issues Roundtable at the Society for Neuroscience
	o ,
2014 – 2017 2014 – procent	Board of Directors, Flux: Developmental Cognitive Neuroscience Society
2014 – present	Board member, International Mind, Brain, & Education Society
2011 propert	Symposium Chair, International Mind, Brain, & Education Society
2014 – present	Steering Committee for Latin American School of Education, Cognitive and Neural Sciences
2013	•
2013	Panel host, Science Communication and Science Policy, Beyond
2012 –	Academia conference for UCB graduate students
2012 - 2011	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."
0040	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

~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 <u>Principles of Frontal Lobe Functions</u>, 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

<u>Journals</u>

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; Science Advances; 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; Special Emphasis panel for Cognition and Perception or Language and Communication

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; Integrative Strategies for Understanding Neural and Cognitive Systems

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, 2019-	- 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

Additional Dept	
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
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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)
1996-2001	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

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

Maria Eckstein, Psychology (Advisor for first 2.5 years)

Doctoral fellowships:

Elena Leib: Berkeley Fellowship, 2018-2020

Monica Ellwood-Lowe: NSF Graduate Fellowship, started 07/2017; Berkeley Fellowship Willa Voorhies: Neuroscience graduate training program; NSF Graduate 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

Postdoctoral fellows

<u>Alumni</u>

Wei-Chun Wang, Ph.D. from Duke University. Current position: Data scientist.

Elena Galeano Weber, Ph.D. from Goethe University in Frankfurt. *Current position:* Postdoctoral fellow at Goethe University, Frankfurt.

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

<u>Sabbatical visitors:</u> 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; Maria Eckstein, Psychology, UCB; Monica Ellwood-Lowe, Psychology, UCB (Co-Chair); Kate Frankel, Education, UCB; Chloe Green, School Psychology, UCB; Anett Gyurak, Psychology, UCB; Laura Henry, Psychology, UCB; Bona Kang, Education, UCB; Heesoo Kim, Neuroscience, UCD; Isaac Liao, Neuroscience, UCD; Elena Leib, Psychology, UCB (Chair); 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); Megan Norr, Psychology, UCB; Andrew Peckham, Psychology, UCB; Anne Richards, Neuroscience, UCD; Stacey Seidel, Neuroscience, UCD; Michaela Simpson, Psychology, UCB; Michael Souza, Psychology, UCB (Chair); Willa Voorhies, Psychology, UCB; 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

<u>External Ph.D. Examiner</u> 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: Shyama Yallagaprada, Emily Kleinfelder, Jewelia Yao (Departmental Citation Award to the top undergraduate in Psychology in 2020; Swan Award), Lara Taniguchi, Gowri Swamy, Jeffrey Crawford, Bryan Wu (co-advised with Dr. Elysa Marco at UCSF), Orly Perlstein (Warner Brown Award 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