

## Silvia A. Bunge, Ph.D.

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### Academic History and Positions

- Jan, 2007 – Assistant Professor, Dept. of Psychology & Helen Wills Neuroscience Institute  
*University of California at Berkeley*
- 2003 – Dec, 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*
- 1996 – 2001 Ph.D., Neurosciences Program  
*Stanford University*
- 1992 – 1996 B.S. Intensive in Biology (psychobiology); cum laude; Distinction in Biology  
*Yale College*
- 1990 – 1992 Diploma of Collegiate Studies: Health Sciences & Pure and Applied Sciences  
*Collège Jean-de-Brébeuf, Montreal*

### Research Experience

- 2001 – 2003 Postdoctoral research with Dr. Anthony Wagner  
*Investigations of prefrontal cortex and cognitive control*
- 1997 – 2001 Ph.D. research with Dr. John Gabrieli  
*Investigations of prefrontal cortex and cognitive control*
- 1995 – 1996 Undergraduate research with Dr. Thomas Carew  
*Short-term memory mechanisms in Aplysia*

### Professional Memberships

- 2006 – Neuroethics Society  
Memory Disorders Research Society
- 2004 – Association for Psychological Science (formerly American Psychological Society)
- 2003 – Neurosciences Graduate Group, UC Davis
- 1998 – Society for Neuroscience  
Cognitive Neuroscience Society
- 1996 Vice-President, Undergraduate Science Symposia, Yale College
- 1995 – 1996 Co-President, Yale Science & Engineering Association, Undergraduate Chapter
- 1994 – 1996 Vice-President, Bioethics Society, Yale College

### Teaching Experience

- 2003 – 2006 Cognitive Neuroscience (PSC 135, Bunge, UCD; 4 times)
- 2004 – 2006 Cognitive Neuroscience (PSC 261/NSC 223; co-instructor at UCD; 3 times)

### Guest lectures

- 2007 Lecture in Developmental Psychopathology course (Zhao, UCB; February)
- 2006 Lecture in Cognitive Neuroscience course (Wojciulik, UCD)
- 2005 Lecture in Medical school Neurobiology course (Kumari, UCD)
- 2003 Proseminar in Psychology (PSC 200; Goodman, UCD)
- 2002 Foundations of Human Memory and Learning (Wagner, MIT)

2001 Cognitive Neuroscience (Corkin, MIT)  
Developmental Cognitive Neuroscience (Shelton and Turner, Stanford)  
1996-2001 Presentations on neuroscience in local public schools

*Teaching assistantships (Stanford University)*

2000 Cellular Neuroscience (Wine)  
1999 Behavioral Neuroscience (Wandell and Wine)  
1998 Cellular Neuroscience (Wine)  
The Nervous System (Barres): Co-taught weekly laboratory section

*Mentoring*

2007 – 2008 Erasmus Scholarship for a student visiting UCB from the University of Oslo  
2007 Pierce Summer Internship for undergraduate student, HWNI, UCB  
2005 Honors Challenge Course (individual instruction for student in PSC 135)  
2004 – Honors thesis supervision for two students at UCD  
2003 – Members of Cognitive Control laboratory at UCD and UCB  
2002 – High school student in NSF-funded Authentic Science Research course  
2001 – 2003 Students in Undergraduate Research Opportunities Program, MIT

**Invited Talks**

2008 Learning Brain Expo, San Francisco (January)  
Center for the Neural Basis of Cognition Colloquium, Carnegie Mellon &  
University of Pittsburgh (December)

2007 Faculty seminar for Biology Fellows Forum and Pierce Summer Internship (July)  
Chair, Symposium at Jean Piaget Society meeting on “Social Developmental  
Cognitive Neuroscience”, Amsterdam  
Adolescent Expert Meeting, Leiden University  
RAMBLE Cognitive Neuroscience meeting, UC Berkeley  
Symposium at Society for Research on Child Development, Boston  
Cognition, Brain, and Behavior/ICBS Colloquium, UC Berkeley  
Cognitive Seminar, Stanford Department of Psychology

2006 Chair, Slide Session on Cognitive Development at Society for Neuroscience  
NIMH-sponsored Workshop: "Optimizing fMRI approaches to adolescent mental  
disorders", Bethesda  
University of Tokyo, Frontiers of Human Brain Imaging series  
Lunch-time seminar, Japan Neuroscience Society  
Symposium at Japan Neuroscience Society conference  
Attention, Awareness, and Action Conference at UC Davis  
Workshop on Executive Functions, U. of British Columbia  
Psychology Colloquium, University of California at Berkeley

2005 Cajal Club meeting, hosted by UC Davis  
Chair, Minisymposium at Society for Neuroscience  
Symposium at Memory Disorders Research Society  
UC Davis Imaging Research Center Launch  
Chair, Invited Symposium at American Psychological Society  
Martinez VA Hospital, Neuropsychology Brown Bag Lunch  
University of Amsterdam, Expert meeting on “Advances in Developmental  
Cognitive Neuroscience”  
Neuroscience Institute at Stanford: fMRI Colloquium Series

2004 Max Planck Institute Workshop on Task Control, Leipzig, Germany  
Annual Summer Interdisciplinary Conference, Cavalese, Italy  
UC Berkeley Institute of Cognitive and Brain Sciences Colloquium Series

2003 UC Davis Cognitive Psychology Brown Bag  
UC Davis Neuroscience Retreat  
University of Amsterdam, EPOS Workshop on Performance Monitoring and  
Interference Control

2002 Society for Research on Child Development Symposium  
 University of British Columbia, Psychology Colloquium,  
 University of California at Davis, Psychology Colloquium  
 Dartmouth College, Department of Brain and Psychological Science Colloquium  
 University of Pittsburgh, Psychology and LRDC Colloquium,  
 Massachusetts General Hospital Cognitive Neuroscience Group  
 Dartmouth College, Social Cognitive Neuroscience Group  
 Shriver Center, U. Mass. Medical School, Psychology Colloquium series  
 MIT Department of Brain and Cognitive Sciences, Cognitive Lunch series

2001 MIT Department of Brain and Cognitive Sciences

2000 Washington University, Department of Psychology  
 Stanford Biosciences Admissions Symposium  
 Stanford Neurosciences Program Retreat

### Reviews

Journals: *Archives of General Psychiatry; Behavioral Neuroscience; Biological Psychiatry; Biological Psychology; Brain; Brain and Cognition; Cerebral Cortex; Cognitive, Affective & Behavioral Neuroscience; Cognitive Brain Research; Cortex; Developmental Science; Experimental Brain Research; European Journal of Neuroscience; Journal of Child Psychology and Psychiatry; Journal of Cognitive Neuroscience; Journal of Neurophysiology; Journal of Neuroscience; Nature Neuroscience; NeuroImage; Neuron; Neuropsychologia; Neuropsychology; Personality and Individual Differences; Proceedings of the National Academy of Sciences; Psychological Research; Psychological Science; Trends in Cognitive Sciences*

NIH Study Sections: Temporary member, Child Psychopathology & Developmental Disabilities (CPDD)

Ad-hoc committee member, NIMH Child Interventions Review

NSF grant programs: Cognitive Neuroscience Initiative; Research on Learning and Education; Perception, Action & Cognition; Behavioral Systems Cluster

Other granting agencies: France-Berkeley Fund, Israel Science Foundation

Book proposals: Guilford Press, Cambridge University Press

### Editorial Service

Bunge & Wallis, eds. "The Neuroscience of Rule-Guided Behavior", Oxford University Press, expected publication in September, 2007.

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

Guest Editor for Special Issue of *Cognitive Brain Research: Multiple Perspectives on Decision Making*, 23(1): 1-151, 2005.

### Professional Service

2007 – Chair of qualifying exam for Jenny Chai, UCB Psychology  
 Orals committee member for Ben Mullin, UCB Psychology  
 Ph.D. thesis committee member for Anett Gyurak, UCB Psychology  
 Ph.D. thesis committee member for Chung-Hay Luk, UCB Neuroscience

2006 Member of Focus Group at Society for Neuroscience

2006 – Ph.D. thesis committee member (students: Bong Walsh, Jamil Bhanji; UCD)

2005 – 2006 Graduate Student Advisor, Department of Psychology, UCD

2005, 2006 Examiner, preliminary written & oral exams for Neuroscience graduate program

2004 – Chair, Graduate student advising, Department of Psychology, UCD  
 Member, Department Chair's Advisory Committee, UCD  
 Ph.D. thesis committee member (student: Anne Richards)

2004 – 2005 Chair, Travel fellowships for UCD Chapter of Society for Neuroscience  
 Faculty search committee, Developmental area of Psychology, UCD

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

2003 – Co-organizer, Annual Psychology Department Conference  
 Representative, Local Chapter of the Society for Neuroscience (UCD)  
 Faculty search committee, Center for Mind and Brain, UCD  
 Faculty search committee, Social-Personality area of Psychology, UCD  
 Ph.D. thesis committee member (student: Robert Blumenfeld)  
 Member, Graduate Group in Neuroscience and Center for Neuroscience  
 Member, Safety committee, UC Davis Imaging Research Center

## Grants and Awards

### Fellowships and Awards

2007 Young Investigator Award, Cognitive Neuroscience Society  
 2004 - 2009 Merck Scholarship in the Biology of Developmental Disabilities  
 2004 Academic Senate Research Travel Award – \$800 for international travel  
 2001 MIT Science Fellowship finalist  
 1999 McDonnell Summer Institute in Cognitive Neuroscience Fellowship  
 1996 – 2001 Baxter Foundation Fellowship, Stanford Medical School

### Grants

Bunge, P.I. and Ferrer, co-PI. Neural Changes Underlying the Development of Fluid Reasoning.  
 R01 proposal to NINDS accepted. \$1,200,000

Bunge, P.I. and Crone, co-PI. Brain maturation subserving cognitive control development. National  
 Science Foundation (0448844) 04/01/2005 – 04/01/2008 \$450,000

Merck Grant: Neural Underpinnings of Deficient Cognitive Control in Developmental  
 Disorders Affecting Frontostriatal Circuitry 06/05 – 06/09 \$300,000

Ghetti, P.I. and Bunge, co-PI. Neural substrates of the development of recognition memory  
 (R03HD054636-01). Proposal approved for funding by NICHD. \$100,000

Junior Faculty Mentor Grant, UC Berkeley (mentor: Richard Ivry) \$1000

New Faculty Research Grant, UC Davis. 03/04 – 06/05 \$2,500

[Silvia Bunge, P.I. and Eveline Crone, co-PI. Mechanisms of cognitive control in adults and children.  
 R01 proposal submitted to NIMH. Proposal was ranked at 12.9<sup>th</sup> percentile and was recommended  
 for funding; not accepted due to scientific overlap with NSF.]

National Institute of Drug Abuse Conference Grant (P.I.s: Mangun, Bunge & Carter)  
 (R13 DA018547-01) 04/01/04 – 06/30/04 \$25,000

### Pending

Boyce, and Catalano, co-P.I.s. Social Disparities in Epigenetic Regulation of Neurodevelopment.  
 R24 proposal submitted to NIH in January, 2006. (Co-Investigator on Project 1: Epigenetic  
 Modifications and Social Disparities in Neurodevelopmental Vulnerability.)

Mauss, P.I. (Consultant on project) The impact of reappraisal ability in the adjustment to stressful  
 life events in a community sample. R21 submitted to NIA. 04/2008 – 04/2010 \$275,000

### Selected supervised grants, awards, and fellowships:

Eveline Crone, former postdoctoral fellow

- Postdoctoral fellowship from the Netherlands Organization for Scientific Research.  
 01/06/04 – 01/06/05 Stipend and travel expenses.
- Society for Neuroscience/Burroughs Wellcome Travel Award, 2004: travel and registration

- Honorable Mention: Award for Excellence in Postdoctoral Research, UCD, 2005
- VENI grant from the Netherlands Organization for Scientific Research, 2005

Michael Souza, former undergraduate research assistant & current graduate student

- MURALS Program, UCD (Mentorship for Undergraduate Research in Agriculture, Letters, and Science), Sept 2004-05: \$1,250 for research-related expenses.
- President's Undergraduate Fellowship, UCD. December 2004 – June 2005. \$1,494 for research-related expenses.
- Undergraduate Student Travel Award: \$300 (April 2005).
- Highest honors awarded for undergraduate honors thesis

#### Assisted in writing:

Anthony Wagner, P.I. Multimodal neuroimaging of cognitive and mnemonic control (NSF-0133126) 07/01/02 – 06/30/05 \$1,082,855

John Gabrieli, P.I., and Chandan Vaidya, co-P.I. Cognitive analysis of working memory development (NIMH 61426) 12/22/00 – 11/30/05 \$1,191,909

#### **Publications**

Mauss, I.B., **Bunge**, S.A. & Gross, J.J. Automatic Emotion Regulation: Neuroscientific Considerations. *Social and Personality Psychology Compass*, accepted pending minor revisions.

Wendelken, C., Donohue, S.E., Crone, E.A., Carter, C.S. & **Bunge**, S.A. 'Brain is to Thought as Stomach is to...?' – Specifying the role of rostralateral prefrontal cortex in analogical reasoning. *Journal of Cognitive Neuroscience*, in press.

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

Donohue, S.E., Wendelken, C. & **Bunge**, S.A. Neural correlates of preparation for action selection as a function of specific task demands. *Journal of Cognitive Neuroscience*, in press.

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

Mauss, I.B., **Bunge**, S.A., & Gross, J.J. Culture and Automatic Emotion Regulation. In: *Regulating emotions: Social necessity and biological inheritance*. 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, expected publication September, 2007.

**Bunge**, S.A. & Wallis, J.D. Introduction. In S. Bunge & J. Wallis (Eds.), *The Neuroscience of Rule-Guided Behavior*. Oxford University Press, expected publication September, 2007.

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

\* article featured in "This Week in Journal", *Journal of Neuroscience* 26(43): 1, 2006.

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

**Bunge**, S.A. & Zelazo, P.D. A Brain-Based Account of the Development of Rule Use in Childhood. *Current Directions in Psychological Science*, 15(3): 118-121, 2006.

van Leijenhorst, L., Crone, E.A. & **Bunge**, S.A. Neural correlates of developmental differences in risk estimation and feedback processing. *Neuropsychologia*, 9(3): 278-87, 2006.

Crone, E.A., **Bunge**, S.A., van der Molen, M.W., & Ridderinkhof, K.R. Switching between tasks and responses: A developmental study. *Developmental Science*, 9(3): 278-287, 2006.

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

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

**Bunge**, S.A., Wallis, J.D., Parker, A., Brass, M., Crone, E.A., Hoshi, E., & Sakai, K. Neural circuitry underlying rule use in humans and non-human primates. *Journal of Neuroscience* 9;25:10347-50, 2005.

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

Crone, E.A., Wendelken, C., Donohue, S.E., & **Bunge**, S.A. Evidence for separable neural processes underlying flexible rule use. *Cerebral Cortex* 16(4):475-86, 2006.

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

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

Donohue, S.E., Wendelken, C., Crone, E.A., & **Bunge**, S.A. Retrieving rules for behavior from long-term memory. *NeuroImage* 26:1140-1149, 2005.

Narayanan, N., Prabhakaran, V., **Bunge**, S.A., Christoff K., Fine E.M., & Gabrieli, J.D.E. The role of prefrontal cortex in the maintenance of verbal working memory information: An event-related fMRI analysis. *Neuropsychology* 19: 223-32, 2005.

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

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

**Bunge**, S. A. How we use rules to select actions: A review of evidence from cognitive neuroscience. *Cognitive, Affective, and Behavioral Neuroscience* 4(4): 564-579, 2004.

**Bunge**, S. A., Burrows, B., & Wagner, A.D. Prefrontal and hippocampal contributions to visual associative retrieval. *Brain and Cognition* 56: 141-152, 2004.

**Bunge**, S. A., Wendelken, C., Badre, D. & Wagner, A.D. Analogical reasoning and prefrontal cortex: Evidence for separable retrieval and integration mechanisms. *Cerebral Cortex*, 15: 239-49, 2005.

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

Wagner, A.D., **Bunge**, S.A. & Badre, D. Cognitive control, semantic memory, and priming: Contributions of prefrontal cortex. In: The New Cognitive Neurosciences, 3<sup>rd</sup> ed., 2004.

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

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

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

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

Ochsner, K.N., **Bunge**, S.A., Gross, J.J. & Gabrieli, J.D.E. Rethinking feelings: An fMRI study of the cognitive regulation of emotion. *Journal of Cognitive Neuroscience* 14(8):1215-29, 2002  
[Manuscript reproduced in "Key Readings in Social Psychology: Social Neuroscience", edited by Cacioppo and Berntson; Psychology Press, 2005]

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

**Bunge**, S.A., Ochsner, K.N., Desmond, J.E., Glover, G.H. & Gabrieli, J.D.E., Prefrontal regions involved in keeping information in and out of mind. *Brain*, 124:2074-2086, 2001.

**Bunge**, S.A., Klingberg, T., Jacobsen, R.B. & Gabrieli, J.D.E. A Resource Model of the Neural Basis of Executive Working Memory. *Proceedings of the National Academy of Sciences*, 97:3573-3578, 2000.

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

**Bunge**, S.A., Mauelshagen, J. & Carew, T.J. 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, 1997.

### Under review

Baym, C.L., Corbett, B.A., Wright, S.B. & **Bunge**, S.A. Task-related Brain Activation Associated with Heightened Tic Severity in Unmedicated Children with Tourette Syndrome.

Paz-Alonso, P.M., Ghetti, S., Donohue, S.E., Goodman, G.S., & **Bunge**, S.A. Neurodevelopmental correlates of true and false recognition.

Wendelken, C., **Bunge**, S.A., & Carter, C.S. Parietal and prefrontal roles in maintaining structured information.

Crone, E.A., Wendelken, C., van Leijenhorst, L., Honomichl, L.D., Christoff, K. & **Bunge**, S.A. Neurocognitive development of relational reasoning.

Souza M.J., Donohue S.E. & **Bunge**, S. A. Accessing knowledge about objects: Action and function representations in the brain.

### In preparation

**Bunge**, S.A. & Dobbins, I.G. Anterior prefrontal cortex: Retrieval, relations, and/or rules?

Baym, C.L., Souza, M.J., Wright, S.B., & **Bunge**, S.A. Task-switching and interference suppression: Neurodevelopmental changes.

Bhanji, J.P., Beer, J.S., & **Bunge**, S.A. Action and consequence in neural representations of uncertainty.

Zelazo, P.D. & **Bunge**, S.A. Self-control and the Developing Brain: A Brain-based Model of the Development of Rule Use in Childhood.

Crone, E.A., Cohen, M.X., & **Bunge**, S.A. Prefrontal regions contributing to risk anticipation and feedback processing.

### **Selected Conference Presentations from 2000 onwards**

Wright, S., Matlen, B.J., Baym, C., & **Bunge**, S.A. Fluid reasoning in development: Changes in brain function. Submitted to Cognitive Neuroscience Society, 2007.

Paz-Alonso, P., Ghetti, S., Matlen, B.J., Anderson, M.C., & **Bunge**, S.A. Suppressing unwanted memories: A developmental fMRI study. Submitted to Cognitive Neuroscience Society, 2007.

Baym, C.L., Souza, M.J., Wright, S.B., & **Bunge**, S.A. Neurodevelopmental changes in task-switching and interference suppression. Submitted to Cognitive Neuroscience Society, 2007.

Bhanji, J.P., Beer, J.S., & **Bunge**, S.A. Action and consequence in neural representations of uncertainty. Submitted to Cognitive Neuroscience Society, 2007.

Ghetti, S. DeMaster, D.M., **Bunge**, & S.A., Yonelinas, A.P. Neural Substrates of the Development of Recognition Memory. Society for Research on Child Development, 2007.

DeMaster, D.M., Ghetti, S., **Bunge**, & S.A., Yonelinas, A.P. Neural Correlates of Recollection and Familiarity: A Developmental Study. Society for Research on Child Development, 2007.

Souza, M.J., Donohue, S.E., & **Bunge**, S.A. Function knowledge or action knowledge? Characterizing the role of posterior middle temporal gyrus. Society for Neuroscience, November 2006.

Baym, C.L., Corbett, B.A., Wright, S.B., & **Bunge**, S.A. Neural correlates of task-switching in children with Tourette syndrome. Society for Neuroscience, November 2006.

Donohue, S.E., Souza, M.J., Wendelken, C. & **Bunge**, S.A. Preparing to respond: Neural substrates of rule representation as a function of rule type. Society for Neuroscience, November 2006.

Paz-Alonso, P.M., Donohue, S.E., Ghetti, S., Goodman, G.S., & **Bunge**, S.A. Neurodevelopmental correlates of brain activation during true and false recognition. Society for Neuroscience, November 2006.

van Leijenhorst, L., Crone, E.A., Honomichl, R.D., Wendelken, C., Christoff, K., & **Bunge**, S.A. Development of relational integration and rostrolateral prefrontal cortex. Society for Neuroscience, November 2006.

Wendelken, C., Ditterich, J., **Bunge**, S.A., & Carter, C.S. Elements of perceptual decision-making: neuroimaging with a dot-motion task. Society for Neuroscience, November 2006.

Matlen B.J., Souza, M.J., Donohue, S.E., & **Bunge**, S.A. Characterizing the role of left posterior middle temporal gyrus in action-representation. UC Davis Undergraduate Research Conference, 2006.

Wright, S.B., Souza, M.J., Donohue, S.E. & **Bunge**, S.A. Retrieving the meanings of signs that specify actions. UC Davis Undergraduate Research Conference, 2006.

Donohue, S.E., Paz-Alonso, P.M., Ghetti, S., Goodman, G.S., & **Bunge**, S.A. Brain activation associated with veridical and illusory recognition: A developmental study. Human Brain Mapping, Florence, June 2006.

Crone, E.A., Cohen, M.X., & **Bunge**, S.A. Prefrontal cortex regions contributing to risk anticipation and feedback processing. Cognitive Neuroscience Society conference, April 2006.

Van Leijenhorst, L., Crone, E.A., & **Bunge**, S.A. Neural correlates of developmental differences in risk-estimation and feedback processing. Cognitive Neuroscience Society conference, April 2006.

Souza, M.A. & **Bunge**, S.A. Representing Actions, Movements, and Functions. Cognitive Neuroscience Society conference, April 2006.

Donohue, S.E., Paz-Alonzo, P., Ghetti, S., Goodman, G., & **Bunge**, S.A. Developmental Changes in Brain Activation Associated With True and False Recognition. Cognitive Neuroscience Society conference, April 2006.

Gillath, O., **Bunge**, S.A., & Shaver, P. Patterns of Brain Activation Associated with Subliminal and Supraliminal Sexual Stimuli. Cognitive Neuroscience Society conference, April 2006.

Donohue, S.E., Souza, M.J., Wendelken, C. & **Bunge**, S.A. Preparing for action: PFC subregions involved in maintenance of different types of rules. Cognitive Neuroscience Society conference, 2005.

Crone, E. A., Honomichl, R., Wendelken, C., Donohue, S., E. & **Bunge**, S. A. Neural substrates of working memory maintenance vs. manipulation: Dissociable developmental trajectories? Cognitive Neuroscience Society conference, 2005.

Souza M.J., Donohue S.E. & **Bunge**, S. A. What's your sign? Using fMRI to uncover the storage and retrieval of action-based rules. Cognitive Neuroscience Society conference, 2005.

Honomichl, R.D., Wendelken, C., Crone, E.A., Christoff, K. & **Bunge**, S.A. Development of relational integration and rostrolateral prefrontal cortex. Cognitive Neuroscience Society conference, 2005.

Gillath, O., **Bunge**, S.A., Shaver, P.R., Wendelken, C., & Mikulincer, M. Individual Differences in Thought Suppression: an fMRI Exploration. Cognitive Neuroscience Society conference, 2005.

Wendelken, C., **Bunge**, S.A., & Carter, C.S. Working memory for structured representations. Cognitive Neuroscience Society conference, 2005.

Van Leijenhorst L., Crone, E.A., Uitert, G., **Bunge**, S.A. & Van der Molen, M. W. Evidence for differential development trajectories for object and spatial working memory. Cognitive Neuroscience Society conference, 2005.

**Bunge**, S. A. (Other authors: Donohue, S.E., Wendelken, C., Crone, E.A.) Retrieving rules for behavior from long-term memory. Slide presentation at Society for Neuroscience, 2004.

Crone, E.A. (Other authors: Wendelken, C., Donohue, S., Honomichl, R., & **Bunge**, S.A.) Contributions of prefrontal subregions to developmental changes in rule use. Slide presentation at Society for Neuroscience, 2004.

Wendelken, C., Donohue, S.E., Crone, E.A., & **Bunge**, S.A. 'BRAIN is to MIND as STOMACH is to...?' Specifying the role of frontopolar cortex in analogical reasoning. Society for Neuroscience, 2004.

Swick, D., **Bunge**, S.A., & Ashley, V. Investigating response selection in patients with prefrontal or parietal lobe damage. Society for Neuroscience, 2004.

Gillath, O., **Bunge**, S.A., Shaver, P.R., Wendelken, C., & Mikulincer, M. Attachment-Style Differences in Thought Suppression. Society for Neuroscience, 2004.

**Bunge**, S. A. Basing decisions on our memories: A Cognitive Neuroscience perspective. Exploring the Mind: Multiple Perspectives on Decision Making, UC Davis, 2004.

**Bunge**, S. A., Burrows, B., & Wagner, A.D. Prefrontal and hippocampal contributions to visual associative retrieval. Slide presentation at Society for Neuroscience, 2003.

**Bunge**, S.A. Controlling our thoughts and actions: Clues from functional brain imaging, individual differences, and development. EPOS Workshop on Performance Monitoring and Interference Control, Amsterdam, 2003.

**Bunge**, S.A. Immature frontal lobe contributions to cognitive control in children: Evidence from fMRI. Symposium at Society for Research on Child Development, 2003.

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