

Carter Wendelken

Education

9/96 – 5/03 University of California at Berkeley Berkeley, CA

Ph.D. Computer Science (Artificial Intelligence)

- Thesis title: SHRUTI-agent: a structured connectionist model of decision-making.

9/92 – 9/96 University of North Carolina at Chapel Hill Chapel Hill, NC

B.S. with Highest Honors, Mathematical Sciences

- International studies minor

Work experience

7/07 – present Helen Wills Neuroscience Institute Berkeley, CA

Assistant Research Scientist

- Supervisor: Prof. Silvia Bunge

1/07 - 6/07 Helen Wills Neuroscience Institute Berkeley, CA

Postdoctoral Researcher

- Advisor: Prof. Silvia Bunge

10/04 – 12/06 UC-Davis Imaging Research Center Sacramento, CA

Postdoctoral Researcher

- Advisor: Prof. Cameron Carter
- Developed experiments and collected and analyzed functional neuroimaging data related to cognitive control.
- Conducted individual and group training sessions for fMRI data analysis.

10/03 – 9/04 UC-Davis Center for Mind and Brain Davis, CA

Postdoctoral Researcher

- Advisor: Prof. Silvia Bunge
- Developed experiments and collected and analyzed functional neuroimaging data related to cognitive control.
- Implemented software tools to support fMRI data analysis.

1/98 – 9/03 International Computer Science Institute Berkeley, CA

Research Assistant

- Advisor: Dr. Lokendra Shastri

- Developed, implemented, and evaluated numerous extensions to SHRUTI cognitive architecture.
- Assisted Cog-tech company personnel in development of ResearchAgent research support software prototype.

9/96-5/97 UC-Berkeley Berkeley, CA

Teaching Assistant

- Fall 1996: Taught two sections of CS188:Artificial Intelligence
- Summer 1997: Taught section and lab for CS61A:Data Structures
- Fall 1997: Taught two section and labs for CS61A:Data Structures

6/96-8/96, 6/95-8-95 Oak Ridge National Laboratory Oak Ridge, TN

Research Intern

- Supervisor: Dr. Al Geist
- Developed online whiteboard program for research collaboration.
- Developed multiprecision arithmetic package to support scientific computing applications.

1/96-5/96 UNC-Chapel Hill Chapel Hill, NC

Undergraduate Research Assistant

- Supervisor: Prof. Sidhartha Chatterjee
- Developed music recognition software system.

References

Prof. Cameron Carter cameron.carter@ucdmc.ucdavis.edu

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Selected publications

- **Wendelken C.**, Munakata Y., Baym C., Souza M., Bunge SA. (in press; online Feb 2012) Flexible rule use: common neural substrates in children and adults. *Developmental Cognitive Neuroscience*.
- **Wendelken C.**, Chung D., Bunge S. (in press; online Aug 2011) Rostrolateral prefrontal cortex: domain-general or domain sensitive? *Human Brain Mapping*.
- **Wendelken C.**, O'Hare ED, Whitaker KJ, Ferrer E. Bunge SA. (2011) Increased functional selectivity over development in rostralateral prefrontal cortex. *Journal of Neuroscience* 31 (47): 17260-17268.
- **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*, 1(2):175-86
- **Wendelken, C.** & Bunge, S.A. (2009) Transitive Inference: Distinct Contributions of Rostrolateral Prefrontal Cortex and the Hippocampus. *Journal of Cognitive Neuroscience* 22(5):837-47.
- Bunge S.A., **Wendelken C.** (2009) Comparing the bird in the hand with the ones in the bush. *Neuron*. 62(5):609-11.
- Crone EA, **Wendelken C.**, van Leijenhorst L, Honomichl RD, Christoff K., & Bunge SA (2009). Neurocognitive development of relational reasoning. *Developmental Science*, 12, 55-66.
- **Wendelken C.**, Ditterich J., Bunge S.A., & Carter C.S. (2009). Stimulus and response conflict processing during perceptual decision making. *Cogn Affect Behav Neurosci*, 9, 434-447.
- **Wendelken C.**, Bunge S.A., & Carter C.S. (2008). Maintaining structured information: an investigation into functions of parietal and lateral prefrontal cortices. *Neuropsychologia*, 46, 665-678.
- **Wendelken, C.**, Nakhabenko D., Donohue, S.E., Carter, C.S. & Bunge, S.A. (2008) 'Brain is to Thought as Stomach is to...?' – Investigating the role of rostralateral prefrontal cortex in relational reasoning. *Journal of Cognitive Neuroscience*, 20(4):682-93.



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