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EDUCATION AND ACADEMIC POSITIONS

- 2003-present Assistant Professor, Department of Psychology, Rice University, Houston, Texas.
- 2000-2003 Post-Doctoral Fellow, Department of Neurology, Washington University School of Medicine, St. Louis, Missouri.
 Advisors: Steven E. Petersen & Bradley L. Schlaggar
- 1996-2000 Ph.D. in Cognitive and Biological Psychology, University of Minnesota, Minneapolis, Minnesota. Minor in Neuroscience.
 Advisors: Chad J. Marsolek & Monica Luciana
- 1995-1996 Ph.D. candidate in Cognitive Psychology, University of Arizona, Tucson, Arizona.
 Advisor: Chad J. Marsolek
- 1989-1993 B.A. in Psychology, Skidmore College, Saratoga Springs, New York.
 Advisor: Mary Ann Foley

PUBLICATIONS

- Burgund, E. D.** (In press). Opposing effects of age and reading ability on pseudoword priming. *Cognitive Development*.
- Burgund, E. D.**, & Abernathy, A. E. (2008). Letter-specific processing in children and adults matched for reading level. *Acta Psychologica*, 129, 66-71.
- Burgund, E. D.**, & Edwards, J. K. (2008). Identity versus similarity priming for letters in left mid-fusiform cortex. *NeuroReport*, 19, 761-764.
- Marsolek, C. J., & **Burgund, E. D.** (2008). Dissociable neural subsystems underlie visual working memory for abstract categories and specific exemplars. *Cognitive, Affective, and Behavioral Neuroscience*, 8, 17-24.
- Burgund, E. D.**, Lugar, H. M., Miezin, F. M., Schlaggar, B. L., & Petersen, S. E. (2006). The development of sustained and transient neural activity. *NeuroImage*, 29, 812-821.
- Burgund, E. D.**, Schlaggar, B. L., & Petersen, S. E. (2006). Development of letter-specific processing: The effect of reading ability. *Acta Psychologica*, 122, 99-108.
- Dosenbach, N. U. F., Visscher, K. M., Palmer, E. D., Miezin, F. M., Wenger, K. K., Kang, H. C., **Burgund, E. D.**, Grimes, A. L., Schlaggar, B. L., & Petersen, S. E. (2006). A core system for the implementation of task sets. *Neuron*, 50, 799-812.
- Burgund, E. D.**, Lugar, H. M., Schlaggar, B. L., & Petersen, S. E. (2005). Task demands modulate sustained and transient neural activity during visual matching tasks. *NeuroImage*, 25, 511-519.
- Marsolek, C. J., & **Burgund, E. D.** (2005). Initial storage of unfamiliar objects: Examining memory stores with signal detection analyses. *Acta Psychologica*, 119, 81-106.
- Burgund, E. D.**, Lugar, H. M., Miezin, F. M., & Petersen, S. E. (2003). Sustained and transient activity during an object-naming task: A mixed blocked and event-related fMRI study. *NeuroImage*, 19, 29-41.

- Burgund, E. D.**, Marsolek, C. J., & Luciana, M. (2003). Serotonin levels influence patterns of repetition priming. *Neuropsychology*, *17*, 161-170.
- Kang, H. C., **Burgund, E. D.**, Lugar, H. M., Petersen, S. E., & Schlaggar, B. L. (2003). Comparison of functional activation foci in children and adults using a common stereotactic space. *NeuroImage*, *19*, 16-28.
- Marsolek, C. J., & **Burgund, E. D.** (2003). Visual recognition and priming of incomplete objects: The influence of stimulus and task demands. In J. S. Bowers & C. J. Marsolek (Eds.), *Rethinking implicit memory* (pp. 139-156). Oxford: Oxford University Press.
- Burgund, E. D.**, Kang, H. C., Kelly, J. E., Buckner, R. L., Snyder, A. Z., Petersen, S. E., & Schlaggar, B. L. (2002). The feasibility of a common stereotactic space for children and adults in fMRI studies of development. *NeuroImage*, *17*, 184-200.
- Luciana, M., **Burgund, E. D.**, Berman, M., & Hanson, K. (2001). Effects of tryptophan loading on verbal, spatial, and affective working memory functions in healthy adults. *Journal of Psychopharmacology*, *15*, 219-230.
- Burgund, E. D.**, & Marsolek, C. J. (2000). Viewpoint-invariant and viewpoint-dependent object recognition in dissociable neural subsystems. *Psychonomic Bulletin & Review*, *7*, 480-489.
- Burgund, E. D.**, & Marsolek, C. J. (1998). Fixed versus flexible features in dissociable neural processing subsystems. *Behavioral and Brain Sciences*, *21*, 21-22.
- Burgund, E. D.**, & Marsolek, C. J. (1997). Letter-case specific priming in the right cerebral hemisphere with a form-specific perceptual identification task. *Brain and Cognition*, *35*, 239-258.
- Marsolek, C. J., & **Burgund, E. D.** (1997). Computational analyses and hemispheric asymmetries in visual-form recognition. In S. Christman (Ed.), *Cerebral asymmetries in sensory and perceptual processing* (pp. 125-158). Amsterdam: Elsevier.

PRESENTATIONS

- Guo, Y., & **Burgund, E. D.** (2008, April). *The role of the left fusiform gyrus in reading: An examination of Chinese character recognition*. Poster presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA
- Burgund, E. D.**, Guo, Y., & Aurbach, E. L. (2007, November). *Priming for letters and non-letters in fusiform cortex*. Poster presented at the 37th Annual Meeting of the Society for Neuroscience, San Diego, CA
- Lugar, H. M., & **Burgund, E. D.** (2006, November). *Dissociating performance and anxiety: Practice effects during reading and verb generation*. Poster presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX
- Dosenbach, N. U. F., Miezin, F. M., Palmer, E. D., Visscher, K. M., Wenger, K. K., Kang, H. C., Grimes, A. L., **Burgund, E. D.**, Schlaggar, B. L., & Petersen, S. E. (2005, November). *Mixed blocked/event-related fMRI suggests that anterior cingulate/medial superior frontal cortex and anterior insula form a core network for the instantiation and maintenance of task set*. Poster presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC
- Dosenbach, N. U. F., Miezin, F. M., Palmer, E. D., **Burgund, E. D.**, Schlaggar, B. L., & Petersen, S. E. (2005, April). *Potential sources of sustained instruction-related signals in parietal and prefrontal cortex, during an auditory-motor synchronization task*. Poster presented at the 12th Annual Meeting of the Cognitive Neuroscience Society, New York, NY
- Dosenbach, N. U. F., Miezin, F. M., **Burgund, E. D.**, Schlaggar, B. L., & Petersen, S. E. (2004, October). *Processing networks active during rhythm learning revealed by mixed blocked/event-related fMRI*. Poster presented at the 34th Annual Meeting of the Society for Neuroscience, San Diego, CA
- Burgund, E. D.**, Lugar, H. M., Schlaggar, B. L., & Petersen, S. E. (2003, November). *Effects of stimulus and instruction type during three visual matching tasks: A mixed blocked and event-related fMRI study*. Poster presented at the 33rd Annual Meeting of the Society for Neuroscience, New Orleans, LA

- Visscher, K. M., Palmer, E. D., Kang, H. C., **Burgund, E. D.**, & Petersen, S. E. (2003, November). *Sustained task-related activity and its action on transient trial-related activity*. Paper presented at the 33rd Annual Meeting of the Society for Neuroscience, New Orleans, LA
- Visscher, K. M., Palmer, E. D., **Burgund, E. D.**, Kang, H. C., Miezin, F. M., Lyon, J. K., Buckner, R. L., & Petersen, S. E. (2003, March). *Sustained, block-related activity compared across four tasks shows both common and task-modulated responses*. Poster presented at the 10th Annual Meeting of the Cognitive Neuroscience Society, New York, NY
- Burgund, E. D.**, Lugar, H. M., Miezin, F. M., & Petersen, S. E. (2002, November). *Sustained and transient activity during an object-naming task: A mixed blocked and event-related fMRI study*. Poster presented at the 32nd Annual Meeting of the Society for Neuroscience, Orlando, FL
- Kang, H. C., **Burgund, E. D.**, Lugar, H. M., Petersen, S. E., & Schlaggar, B. L. (2002, March). *Comparison of functional activation foci in children and adults using a common stereotactic space*. Poster presented at the 9th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA
- Burgund, E. D.**, Elo, L. C., Marsolek, C. J. (2001, November). *Visual working memory for category and exemplars of objects*. Poster presented at the 9th Annual Workshop on Object Perception and Memory (OPAM), Orlando, FL
- Burgund, E. D.**, Kang, H. C., Snyder, A. Z., Petersen, S. E., & Schlaggar, B. L. (2001, March). *Transforming children's brains into Talairach space: A comparison of sulci in 7 and 8-year old children and adults*. Poster presented at the 8th Annual Meeting of the Cognitive Neuroscience Society, New York, NY
- Burgund, E. D.** (2000, November). *Viewpoint dependence in dissociable specific and abstract visual-form subsystems*. Poster presented at the 8th Annual Workshop on Object Perception and Memory (OPAM), New Orleans, LA
- Burgund, E. D.**, Marsolek, C. J., & Luciana, M. (2000, April). *The role of serotonin in abstract and specific visual-form priming*. Poster presented at the 7th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA
- Marsolek, C. J., Jax, S. A., Andresen, D. R., **Burgund, E. D.**, Westerberg, C. E., & Henrickson, B. J. (1999, November). *Contradictory neurocomputational properties for abstract-category and specific-exemplar object recognition*. Paper presented at the 40th Annual Meeting of the Psychonomic Society, Los Angeles, CA
- Burgund, E. D.** (1999, April). *Differential processing of valence and arousal in emotional scenes across the cerebral hemispheres*. Poster presented at the 6th Annual Meeting of the Cognitive Neuroscience Society, Washington DC
- Marsolek, C. J., & **Burgund, E. D.** (1999, April). *Visual recognition of incomplete objects: Evidence against parts-only recognition of object exemplars*. Poster presented at the 6th Annual Meeting of the Cognitive Neuroscience Society, Washington DC
- Burgund, E. D.**, & Marsolek, C. J. (1998, November). *Dissociable mechanisms for priming of planar-rotated unfamiliar objects*. Paper presented at the 6th Annual Pre-Psychonomic Workshop on Object Perception and Memory (OPAM), Dallas, TX
- Burgund, E. D.**, & Marsolek, C. J. (1998, April). *Viewpoint-dependent priming for familiar objects in the right cerebral hemisphere*. Poster presented at the 5th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA
- Burgund, E. D.**, & Marsolek, C. J. (1996, November). *Differential same-exemplar priming across hemispheres for unfamiliar possible and impossible objects*. Poster presented at the 37th Annual Meeting of the Psychonomic Society, Chicago, IL
- Burgund, E. D.**, & Marsolek, C. J. (1996, April). *Letter-case specific priming in the right cerebral hemisphere with a form-specific perceptual identification task*. Poster presented at the 3rd Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA

INVITED COLLOQUIA

2007	Texas A & M University, Department of Psychology, College Station, Texas
2006	Rice University, Department of Statistics, Houston, Texas
2004	Rice University, Department of Computation & Applied Mathematics, Houston, Texas
2003	University of Texas – Houston, Department of Neurobiology & Anatomy, Houston, Texas

Ad Hoc REVIEWER

Acta Psychologica; Brain Research; Cerebral Cortex; Journal of Applied Developmental Psychology; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: Learning, Memory, & Cognition; Memory; Memory & Cognition; NeuroImage; Neuropsychologia; Psychonomic Bulletin & Review

UNIVERSITY/DEPARTMENT SERVICE

2003-present	Faculty Advisor for Psi Chi, National Honors Society in Psychology
2003-present	Undergraduate Advisor, Department of Psychology
2006-2007	Rice University Faculty Handbook Committee
2006-2007	Rice Undergraduate Research Symposium (RURS) Judge
2006-2007	Social Neuroscience Faculty Search Committee
2006	Joint Rice/UTH-TMC Colloquium Committee
2006	Brain, Behavior, and Cognition Symposia Organizing Committee
2005-2006	Cognitive Neuroscience Faculty Search Committee
2005	Coordinator of Rice Undergraduate Summer Internship in Cognitive Neuroscience
2004-2005	Rice University Presidential Fellowship Committee

TEACHING (* DENOTES NEW COURSE)

Spring, 2008	PSYC 340	<i>Research Methods</i>	Sole Instructor
Spring, 2007	PSYC 340	<i>Research Methods</i>	Sole Instructor
Spring, 2007	PSYC 529	<i>Cognitive Research Seminar</i>	Sole Instructor
Fall, 2006	PSYC 203	<i>Introduction to Cognitive Psychology</i>	Sole Instructor
Fall, 2006	PSYC 520	<i>Foundations of Cognitive Psychology</i>	Sole Instructor
Spring, 2006	PSYC 340	<i>Research Methods</i>	Sole Instructor
Fall, 2005	PSYC 203	<i>Introduction to Cognitive Psychology</i>	Sole Instructor
Fall, 2005	PSYC 480/580	<i>Developmental Cognitive Neuroscience</i>	Sole Instructor
Spring, 2005	PSYC 203	<i>Introduction to Cognitive Psychology</i>	Sole Instructor
Fall, 2004	PSYC 340	<i>Research Methods</i>	Sole Instructor
Fall, 2004	PSYC 480/580	<i>Developmental Cognitive Neuroscience</i>	Sole Instructor
Spring, 2004	PSYC 340	<i>Research Methods</i>	Sole Instructor
Fall, 2003	PSYC 480/580	<i>Developmental Cognitive Neuroscience</i>	Sole Instructor*

ADVISING*Graduate Students:*

Heather Lugar (2004-2007)
Yi Guo (2006-present)
Denise Harvey (2007-present)

Dissertation Committees:

Cris Hamilton (Ph.D., 2005)
Kelly Biegler (Ph.D., 2006)
Delia Kothmann (Ph.D., 2006)
Laura Martin (Ph.D., 2006)
Mary Portillo (in progress)

Master's Committees:

Jason Crowther (M.A., 2006)
Chen Sun (M.A., 2007)
Wen Zhou (M.A., 2007)
Ashley Meyer (in progress)

Undergraduate Honors Theses:

Alana Abernathy (Cognitive Sciences, 2007)
Elyse Aurbach (Cognitive Sciences, 2008)

RURS Participants:

Rijuta Pandav (2006)
Alana Abernathy (2007)
Elyse Aurbach (2007; 2nd Place Prize)
Elyse Aurbach (2008; 3rd Place Prize)

Undergraduate Students:

Alana Abernathy (2004-2007)
Sharon Ho (2005-2007)
Nancy Lin (2005-2006)
Rijuta Pandav (2005-2006)
Nuvan Rathnayaka (2005-2006)
Elyse Aurbach (2006-present)
Anna Jarman (2006-2007)
Jennifer Chong (2007)
Jennifer Edwards (2007-present)
Nathan Kung (2007)

RUSP Participant:

Elyse Aurbach (2008)