

**Bryan R. Burnham, PhD**  
**The University of Scranton**  
(current as of 7 July 2014)

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**Birth Date, Birthplace:**

16 December 1978, Utica, NY

**Citizenship:**

United States of America

**Education:**

PhD in Experimental-Cognitive Psychology **2007**  
University at Albany, State University of New York  
Dissertation: *Reduced working memory capacity leads to attentional capture by an irrelevant color singleton during inefficient visual search*  
Committee: James H. Neely (Advisor), W. Trammell Neill, Frank R. Vellutino

MA in Experimental-Cognitive Psychology **2004**  
University at Albany, State University of New York  
Thesis: *A capture of visual-spatial attention by a static color/shape discontinuity*  
Advisor: James H. Neely, PhD.

BA in Psychology **2002**  
Utica College of Syracuse University

**Academic Positions:**

Associate Professor, University of Scranton **2012-Present**  
Assistant Professor, University of Scranton **2007-2012**  
Lecturer, University at Albany, State University of New York **2006-2007**  
Research Assistant, University at Albany, for Dr. W. Trammell Neill **2005-2006**  
Research Assistant, University at Albany, for Dr. James H. Neely **2002-2005**

**Professional Organizations:**

Psychonomic Society, Fellow  
Association of Psychological Science, Member  
Vision Sciences Society, Member  
Eastern Psychological Association, Member  
Cognitive Science Society, Member

**Publications (chronological from most recent, # indicates undergraduate assistant):**

- Burnham, B. R., Sabia, M. #, & Langan, C. # (2014). Components of working memory and visual selective attention. *Journal of Experimental Psychology: Human Perception & Performance*, 40, 391-403.
- Burnham, B. R. (2013). Response retrieval in a go/no-go priming of popout task. *Psychonomic Bulletin & Review*, 20, 1187-1194.
- Pfund, R. A. #, Rogan, J. D. #, Burnham, B. R., & Norcross, J. C. (2013) Is the professor in? Faculty presence during office hours. *College Student Journal*, 47, 524-528.
- Burnham, B. R. (2013). Analysis of response time distributions support top-down attentional control affecting early perceptual selection. *Attention, Perception & Psychophysics*, 75, 257-277.
- Vinson, J. A., Burnham, B. R., & Nagendran, M. V. (2012). Randomized, double-blind, placebo-controlled, linear dose, crossover study to evaluate the efficacy and safety of a green coffee bean extract in overweight subjects. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, 5, 21-27.
- Burnham, B. R., Harris, A. M. #, & Suda, M. T. # (2011). Relationship between working memory capacity and contingent involuntary orienting. *Visual Cognition*, 19, 983-1002.
- Burnham, B. R., Rozell, C. A. #, Kasper, A. #, Bianco, N. E. #, & Delliturri, A. # (2011). The visual hemifield asymmetry in the spatial-blink during singleton search and feature search . *Brain & Cognition*, 75, 261-272.
- Burnham, B. R. (2010) Cognitive load modulates attentional capture by color singletons during effortful visual search. *Acta Psychologica*, 135, 20-28.
- Burnham, B. R., Neely, J. H., Naginsky, Y. #, & Thomas, M. (2010). Stimulus-driven attentional capture by a static discontinuity between perpetual groups. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 317-329.
- Burnham, B. R., & Neely, J. H. (2008). Erratum to: Involuntary capture of visual-spatial attention occurs for intersections, both real and “imagined”. *Psychonomic Bulletin & Review*, 16, 430.
- Burnham, B. R., & Neely, J. H. (2008). A static color discontinuity can capture spatial attention when the target is an abrupt-onset singleton. *Journal of Experimental Psychology: Human Perception and Performance*, 34, 831-841.
- Burnham, B. R. (2007) Displaywide visual features associated with a search display’s appearance can mediate attentional capture. *Psychonomic Bulletin & Review*, 14, 392-422.

Burnham, B. R., & Neely, J. H. (2007) Involuntary capture of visual-spatial attention occurs for intersections, both real and “imagined”. *Psychonomic Bulletin & Review*, *14*, 735-741.

Burnham, B. R., & Neely, J. H., & O’Connor, P. A. (2006). Priming effects on temporal order judgments about words: Perceived temporal priority or response bias? *Psychonomic Bulletin & Review*, *13*, 429-433.

Burnham, B. R., Neely, J. H., Walker, P. B., & Neill, W. T. (2006). Interference from irrelevant color-singletons during serial search depends on attention being spatially diffuse. *Visual Cognition*, *14*, 75-78.

### **Conference Posters and Presentations (chronological from most recent):**

Burnham, B. R. (2014, November). RT distribution shifting and skewing underlie priming of popout effects. *Paper presented at the 55<sup>th</sup> annual meeting of the Psychonomic Society, Long Beach, CA.*

Burnham, B. R. (2013, November). Contingent attentional capture by items in selectively ignored locations. *Paper presented at the 54<sup>th</sup> annual meeting of the Psychonomic Society, Toronto.*

Pfund, R. A.<sup>#</sup>, Rogan, J. D.<sup>#</sup>, Burnham, B. R., Norcross, J. C. Are college professors present during their office hours? *Poster presented at the 84<sup>th</sup> annual meeting of the Eastern Psychological Association.*

Burnham, B. R., & Karpiak, C. (2012, October). The corporatization of the University: Threats to faculty primacy in curriculum and pedagogy. *Paper presented at the annual American Association of University Professors Governance Conference, Washington DC.*

Burnham, B. R., & Bruno, S. A.<sup>#</sup> (2012, November). Priming of popout in a go/no-go task. *Poster presented at the 53<sup>rd</sup> annual meeting of the Psychonomic Society, Minneapolis.*

Cannon, J. T., Albert, K. J.<sup>#</sup>, & Burnham, B. R. (2012, October). Facial features differentially correlate with SAT performance in males versus females. *Poster presented at the 42<sup>nd</sup> annual meeting of the Society for Neuroscience, New Orleans.*

Cannon, J. T., Albert, K. J.<sup>#</sup>, & Burnham, B. R. (2012, October). Cognitive development in normal and atypical children. *Poster presented at the 42<sup>nd</sup> annual meeting of the Society for Neuroscience, New Orleans.*

Langan, C. G.<sup>#</sup>, Sabia, M. T.<sup>#</sup>, & Burnham, B. R. (2012, March), Memory load and control of visual attention. *Poster presented at the 83<sup>rd</sup> annual meeting of the Eastern Psychological Association, Pittsburgh.*

Burnham, B. R., Paster, M. A.<sup>#</sup>, & Pfund, R. A.<sup>#</sup>. (2012, March). Moderating influence of state-trait anxiety on the attentional blink. *Poster presented at the 83<sup>rd</sup> annual meeting of the Eastern Psychological Association, Pittsburgh.*

Burnham, B. R., Kim, A.<sup>#</sup>, & Bruno, S. P.<sup>#</sup>. (2011, November). Selection and Response Processes Underlie Priming of Popout. *Poster presented at the 52<sup>nd</sup> annual meeting of the Psychonomic Society, Seattle.*

- Burnham, B. R., Bianco, N. E.<sup>#</sup>, Kasper, A.<sup>#</sup>, Delliturri, A.<sup>#</sup>. (2010, November). Visual Hemifield Asymmetry in Spatial Cuing and Inhibition of Return. *Poster presented at the 51<sup>st</sup> annual meeting of the Psychonomic Society, St. Louis.*
- Cannon, J. T., Burnham, B. R., Pagnotti, M.<sup>#</sup>, & Stratthaus, A. R.<sup>#</sup> (2010, November). Facial features associated with androgen exposure and symmetry correlate with SAT performance and political attitudes. *Poster presented at the 40<sup>th</sup> annual meeting of the Society for Neuroscience, San Diego.*
- Kasper, A.<sup>#</sup>, Rozell, C. A.<sup>#</sup>, Bianco, N. E.<sup>#</sup>, Delliturri, A.<sup>#</sup>, & Burnham, B. R. (2010, May). Visual hemifield asymmetry in the spatial blink: Exogenous/endogenous attention lateralization? *Poster presented at the 22<sup>nd</sup> annual meeting of the Association for Psychological Science, Boston.*
- Burnham, B. R., Suda, M. T.<sup>#</sup>, Harris, A. M.<sup>#</sup>, & Delliturri, A.<sup>#</sup>. (2009, November). Working memory and contingent involuntary orienting. *Poster presented at the 50<sup>th</sup> annual meeting of the Psychonomic Society, Boston.*
- Licata, M. L.<sup>#</sup>, Gilpin, S.<sup>#</sup>, Johnson, K. A.<sup>#</sup>, Baakman, J. A.<sup>#</sup>, Cannon, J.T., & Burnham, B.R (2009, October). 2d:4d finger and width:height face ratios: Relationships with political orientation, signal detection, and perseverative responding. *Poster presented at the 39<sup>th</sup> annual meeting of the Society for Neuroscience, Chicago.*
- Burnham, B. R. (2008, November). Attentional shifts toward relevant and irrelevant singletons have a common time-course. *Poster presented at the 49<sup>th</sup> annual meeting of the Psychonomic Society, Chicago.*
- Burnham, B. R., Pittagula, G.<sup>#</sup>, Mertens, J.<sup>#</sup>, & Greiner, L.<sup>#</sup> (2008, November). Perceptual load and working memory load on attentional capture. *Poster presented at the 16<sup>th</sup> annual meeting of the Object, Perception, Attention and Memory group, Chicago.*
- Guenther, R.<sup>#</sup>, Piatek, E.<sup>#</sup>, Burnham, B. R., & Cannon, J.T. (2008, November). Staying the course: Connections between political attitudes, habitual responding, and 2D:4D finger ratio. *Poster presented at the 38<sup>th</sup> annual meeting of the Society for Neuroscience, Washington, DC.*
- Neill, W. T., Burnham, B. R., O'Connor, P. A., Li, Y. (2008, May). Effects of object structure on object-based attention. *Poster presented at the 8<sup>th</sup> annual meeting of the Vision Sciences Society, Naples, FL.*
- Burnham, B. R. (2008, March). An irrelevant color singleton captures attention under high- vs. low-working memory load. *Poster presented at the 79<sup>th</sup> annual meeting of the Eastern Psychological Association, Boston.*
- Burnham, B. R., & Neely, J. H. (2006, November) Involuntary capture of visual-spatial attention occurs for intersections, both real and "imagined". *Paper presented at the 47<sup>th</sup> annual meeting of the Psychonomic Society, Houston.*
- Burnham, B. R., & Neill, W. T. (2006, November). Exploring the boundaries of the different object benefit. *Poster presented at the 14<sup>th</sup> annual meeting of the Object, Perception, Attention and Memory group, Houston.*

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Burnham, B. R., Neely, J. H., Walker, P. B., & Neill, W. T. (2005, November). Interference from irrelevant color-singletons during serial search depends on attention being spatially diffuse. *Paper presented at the 13<sup>th</sup> annual meeting of the Object, Perception, Attention and Memory group, Toronto, ON, Canada.*

Neely, J. H., & Burnham, B. R. (2004, November). A non-contingent, automatic capture of spatial attention by a static discontinuity. *Paper presented at the 45<sup>th</sup> annual meeting of the Psychonomic Society, Minneapolis.*

Burnham, B. R., & Neely, J. H. (2004, May). Does repetition priming affect temporal-order judgments via response bias or facilitated processing? *Poster presented at the 16<sup>th</sup> annual conference of the American Psychological Society, Chicago.*

Burnham, B. R. (2002, April). The Effect of a Speaker's Emotion on Word List Recall. *Paper presented at the annual Utica College Undergraduate Research Conference, Utica, NY.*

**Manuscripts (submitted, under revision, in progress):**

Burnham, B. R., Cilento, J., & Hanley, B. Dual stages in intertrial priming of popout search: Evidence from RT distributional analyses. [under review]

Burnham, B. R. Contingent attentional capture by items in selectively ignored locations. [in preparation]

Burnham, B. R., Bruno, S. P.<sup>#</sup>, & Kim, Y.<sup>#</sup> Non-independence of target activation and distractor inhibition in priming of popout. [under revision]

Burnham, B. R., Pfund, R. A.<sup>#</sup>, Paster, M. A.<sup>#</sup>, & Kasper, A.<sup>#</sup> State anxiety modulates the attentional blink. [under revision]

Burnham, B. R. Selective attention to emotional and non-emotional faces in liberals and conservatives. [in preparation]

**Honors and Awards:**

Associate Member Select-Speaker Award **2013**  
Psychonomic Society

Sheldon I. Rosenberg Union Leadership Development Grant **2012**  
Faculty Affairs Council, University of Scranton

University Distinguished Dissertation Award **2007**  
University at Albany, State University of New York

**Grants (chronological):**

Faculty Summer Development Grant, The University of Scranton, \$3000 **2013**

Internal Research Grant, The University of Scranton, \$1370 **2007**

Startup Funding, The University of Scranton, \$5000 **2007**

**General Research Interests:**

- Selective Attention
- Working Memory
- Attentional Control
- Object-Based Attention
- Divided Attention
- Visual Search

**Professional Service:**

Faculty Senate Sub-Committee for GE Goals and Objectives Development (Scranton)	<b>2013-2014</b>
Faculty Senate Curriculum Sub-Committee for Program Grid Review (Scranton)	<b>2013</b>
Faculty Affairs Council Website Developer (Scranton)	<b>2013-Present</b>
Faculty Affairs Council Executive Committee, <i>Intern</i> (Scranton)	<b>2013-Present</b>
Faculty Senate, <i>Senator</i> (Scranton)	<b>2012-2014</b>
	<b>2009-2011</b>
Faculty Senate, <i>Alternate Senator</i> (Scranton)	<b>2014-Present</b>
	<b>2011-2012</b>
Faculty Senate Curriculum Committee, <i>Member</i> (Scranton)	<b>2012-2014</b>
	<b>2009-2010</b>
Faculty Senate Curriculum Committee, <i>Co-Chair</i> (Scranton)	<b>2010-2011</b>
Institutional Review Board, <i>Voting Member</i> (Scranton)	<b>2010-Present</b>
Psychology Subject Pool Committee, <i>Chair</i> (Scranton)	<b>2009-Present</b>
Psychology Departmental Review Board, <i>Chair</i> (Scranton)	<b>2008-Present</b>
Library Advisory Committee, <i>Representative</i> (Scranton)	<b>2007-2010</b>
Salary & Benefits Committee, Faculty Affairs Council (Scranton)	<b>2014-</b>
	<b>2011-2012</b>
	<b>2008-2009</b>
Association for Psychological Science Student Caucus, <i>Moderator</i> (Scranton)	<b>2013-Present</b>
Psychology Club, <i>Moderator</i> , University of Scranton (Scranton)	<b>2008-2009</b>
Graduate Student Advisory Committee (U-Albany)	<b>2005-2007</b>
Summer Research Pool, <i>Coordinator</i> (U-Albany)	<b>2004-2006</b>

**Reviewing and Editing Activities:**

*Journal of Experimental Psychology*, Reviewer  
*Quarterly Journal of Experimental Psychology*, Reviewer  
*Attention, Perception & Psychophysics*, Reviewer  
*Experimental Psychology*, Reviewer  
*Cognition*. Reviewer  
*PLoS ONE*, Reviewer

**Teaching Experience as Instructor of Record:**

**PSYC 110 (Fundamentals of Psychology)** An introduction to the scientific study of behavior through a survey of psychology's principal methods, content areas and applications. Course requirements include participation in psychological research or preparation of a short article review.

(University of Scranton)

**PSYC 210 (Statistics in the Behavioral Sciences)** Basic statistics in the behavioral sciences, including organization and display of data; measures of central tendency; variability; correlation and regression; one- and two-sample t-tests; confidence intervals, one-way and two-way analysis of variance, chi-square; and consideration of effect size, power, and null hypothesis testing including types of errors. Introduction to the computerized statistical-analysis package SPSS-PC.

(University of Scranton)

**APSY 210 (Introduction to Statistics)** Methods of analyzing quantitative data in psychology and the behavioral sciences. The relation of each of the various methods to the design of experiments.

For psychology majors completing their major requirements as outlined in this bulletin or subsequent editions. (University at Albany)

**APSY 211 (Research Methods in Psychology)** Topics of psychological research, with emphasis on the manipulation and control of variables, reducing error variance, internal and external validity, the elimination of confounding factors, and social-psychological aspects of experiments. Discussion includes selected topics in the philosophy of science, logical inference, hypothesis testing, theory construction and ethics. For psychology majors completing their major requirements as outlined in this bulletin or subsequent editions. (University at Albany)

**PSYC 230 (Sensation and Perception)** Introduction to the field of neuroscience, examining the cellular bases of behavior, effects of drugs and behavior. brain/body correlates of motivation and emotion, and neural changes accompanying pathology. (University of Scranton)

**PSYC 234 (Cognitive Psychology) and PSYC 234L** Considers a number of approaches to the study of human cognitive processes with an emphasis on the information processing model. Topics include pattern recognition, attention, memory, imagery, concepts and categories, and problem solving. (University of Scranton)

**PSYC 330 (Research Methods in the Behavioral Sciences)** A survey of scientific methods and research designs in the behavioral sciences. Topics include single subject, survey, correlational and experimental research, and computerized data analyses. Psychology majors should take PSYC 330 and PSYC 330L concurrently. Lecture offered only in spring. (University of Scranton)

**PSYC 330L (Research Methods in the Behavioral Sciences Laboratory)** The course is designed to give students experience with a variety of research methods utilized by psychologists and covered in PSYC 330 Research Methods in the Behavioral Sciences. Students will plan projects, gather and enter data, conduct analyses with SPSS/PC or R, write papers in APA format, and develop posters for presentation of research proposals. Lab fee: Spring Only: Specific sections of PSYC 330L and PSYC330 are linked and taught by the same professor. (University of Scranton)

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**APSY 380 (Learning)** Analysis of basic problems in learning. Consideration of data resulting from human and animal experimentation. (University at Albany)

**APSY 340 (The Psychology of Human Sexuality)** In-depth coverage of research and theory on: biological and social causes of sex differences in behavior, attraction and love, marriage and alternatives, sexual behavior, personality variables relating to sexual responsiveness, sexual dysfunction, sexual deviations, effects of erotica, and birth control. (University at Albany)

**References:**

J. Timothy Cannon, Ph.D.  
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800 Linden St  
Scranton, PA 18510  
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Christie P. Karpiak, Ph.D.  
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