

## Donald J. Bolger

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### EDUCATION

- Ph.D., Cognitive Psychology (Cognitive Neuroscience)** 2006  
University of Pittsburgh, Learning Research & Development Center, Pittsburgh, PA  
*Title: The Development of Orthographic Knowledge: A Cognitive Neuroscience Investigation of Reading Skill*
- Masters Thesis, Cognitive Psychology** 2002  
University of Pittsburgh, Learning Research & Development Center, Pittsburgh, PA
- B.A. (Magna cum laude), Psychology** 1998  
University of Massachusetts, Amherst, MA

### POSITIONS

- Assistant Professor** August 2008 – Current  
Department of Human Development, University of Maryland, College Park
- Research Associate** September 2006 – August 2008  
Developmental Cognitive Neuroscience Laboratory (PI: James Booth)  
Department of Communication Sciences & Disorders, Northwestern University
- NIH NRSA Post-Doctoral Fellow** September 2006 – August 2008  
Interdepartmental Institute for Neuroscience Northwestern University (NUIN) (PI: Ken Paller)

### GRANTS & AWARDS

- NIH National Research Service Award July, 2006

### PUBLICATIONS

Liu, L., Deng, X., Peng, D., Cao, F., Ding, G., Jin, Z., Zeng, Y., Li, K., Zhu., L., Fan, N., Deng, Y., **Bolger, D.J.**, & Booth, J.R. (in press). Modality- and task-specific brain regions involved in Chinese lexical processing. *Journal of Cognitive Neuroscience*.

**Bolger, D.J.**, Minas, J. E., Burman, D.D. & Booth, J.R. (2008). Orthographic and phonological consistency effects in cortex of children with and without reading disorders. *Neuropsychologia*, 46, 3210-3224.

**Bolger, D.J.**, Hornickel, J., Cone, N E., Burman, D.D. & Booth, J.R. (2008). Neural correlates of orthographic and phonological consistency effects in children. *Human Brain Mapping*, 29,??-??.

Cone, N.E., Burman, D.D., Bitan, T., **Bolger, D.J.**, & Booth, J.R. (2008). Developmental changes in brain regions involved in phonological and orthographic processing during spoken language processing. *NeuroImage*,41, 623-635.

**Bolger, D.J.**, Balass, M., Landen, E., & Perfetti, C.A. (2008). Contextual variation and definitions in learning the meanings of words. *Discourse Processes*, 45:122-159.

Perfetti, C.A., Liu, Y., Fiez, J., Nelson, J., **Bolger, D.J.** & Tan, L-H. (2007). Reading in two writing systems: Accomodation and assimilation of the brain's reading network. *Bilingualism: Language and Cognition*, 10, 131-146.

Landi, N., Perfetti, C. A., **Bolger, D. J.**, Dunlap, S., Foorman, B. R. (2006). A Paradoxical Relationship between Reading and Learning. *Journal of Experimental Child Psychology*, 94(2): 114-133.

Schneider, W., **Bolger, D. J.**, Eschman, A., Neff, C. & Zuccolotto, A. P. (2005). Psychology Experiment Authoring Kit (PEAK) - Formal Usability Testing of an Easy-to-Use Method for Creating Computerized Experiments. *Behavior Research Methods, Instruments, & Computers*, 37(2): 312-323.

**Bolger, D.J.**, Schneider, W., Perfetti, C.A. (2005). Cross-cultural effect on the Brain Revisited: Universal structures plus writing system variation. *Human Brain Mapping*, 25(1), 92-104.

Perfetti, C. A., & **Bolger, D.J.** (2004). The brain might read that way. *Scientific Studies in Reading*, 8(3):293-304.

Yoon, H.Y, **Bolger, D. J.**, Kwan, O. S., & Perfetti, C. A. (2003). Subsyllabic Units in Reading: A Difference between Korean and English. In L. Verhoeven, C. Elbro, & P. Reitsma (Eds), *Precursors of Functional Literacy*. Nijmegen, Netherlands: John Benjamins.

#### MANUSCRIPTS SUBMITTED OR IN PREPARATION

Bolger, D.J., Gray, J., & Booth, J.R. (in prep). Orthographic and phonological consistency effects in cortex during spoken language.

Yang, C-L., Bolger, D.J., & Perfetti, C. A. (under review). The Stability of Lexical Representation during vocabulary learning.

Phillip, J., Laurent, P., Guediche, S.A., Bolger, D.J., Perfetti, C.A., & Fiez, J.A. (under revision) Evidence of functionally distinct areas in left occipito-temporal cortex: effects of stimulus duration. *Submitted to Human Brain Mapping*.

Bolger, D.J., Hornickel, J., Burman, D.D. & Booth, J.R. (in prep). Orthographic and phonological priming effects in cortex with development.

Bolger, D.J., Yang, C-L., Landen, E., & Perfetti, C.A. (in prep). Neurophysiological markers of word learning from context: an ERP investigation.

Bolger, D.J., Perfetti, C. A., Van Dyke, J., & Foorman, B. R. (in prep). Development of orthographic representations in early reading instruction.

#### PAPERS PRESENTED

Bolger, D.J., Yang, C-L, & Perfetti, C.A. (2008) *Learning the Meanings of Words from Contexts and Definitions: ERP evidence*. Paper presented at the 15<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Asheville, North Carolina.

[Bolger DJ, Minas J, Cao F, Burman DD, Booth JR \(July, 2008\). \*Phonological and orthographic consistency effects in cortex for normal and impaired readers\*. Cognitive Science Society: Washington, DC.](#)

Cone, N., Bolger, D.J., Na, C., Burman, D., Booth, J. (2008). Children with dyslexia show weaker brain activation in orthographic and phonological processing regions during spoken language processing. Poster presented at the 15<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience.

Zaveri, R., Cao, F., Bolger, D.J., & Booth, J.R. (2008). Orthographic and phonological cortical priming effects in children during spoken language processing. Poster presented at the 15<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience.

Lu, D., Burman, D., Bolger, D.J., & Booth, J.R. (2008) Developmental stability and changes in the neural substrate for lexical processing: A longitudinal fMRI study. Poster presented at the 15<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience.

Balass, M., Bolger, D.J. & Perfetti, C.A. (2007). Definition Availability and Context Effects in Vocabulary Learning. Poster presented at the 14<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Prague, Czechoslovakia.

Bolger, D.J., Hornickel, J., Burman, D.D. & Booth, J.R. (2007). Orthographic and phonological priming effects in cortex among children. Poster presented at the 13<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.

Hornickel, J., Bolger, D.J., Cone, N E., Burman, D.D. & Booth, J.R. (2007). Neural correlates of orthographic and phonological consistency effects in children. Poster presented at the 13<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.

Balass, M., Bolger, D.J. & Perfetti, C.A. (2006) The Role of definition and sentence context in vocabulary learning. Poster presented at the 13<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Vancouver, B.C., CA.

Bolger, D.J., Schneider, W., & Perfetti, C.A. (2005). The Development of Orthographic Knowledge: A Cognitive Neuroscience Investigation of Reading. Paper presented at the 12th Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Ontario CA.

Bolger, D. J., & Schneider, W. (2002). Finding visual word recognition through neural adaptation. Paper presented at the 43rd Annual Meeting of the Psychonomic Society, Kansas City, MO.

Bolger, D.J., Van Dyke, J., Landi, N., Perfetti, C.A., & Foorman, B. R. (June, 2002). What errors can tell us about representation and process: Investigating a quantitative theory of reading. Poster presented at the 9th Annual Meeting of the Society for the Scientific Study of Reading, Chicago, IL.

Bolger, D.J., Van Dyke, J., Perfetti, C.A., & Foorman, B. R. (June, 2001). Decoding skill and orthographic knowledge, perfect together. Poster presented at the 8th Annual Meeting of the Society for the Scientific Study of Reading.

Van Dyke, J., Bolger, D.J., Landi, N., & Perfetti, C.A., & Foorman, B.R. (June, 2001). Contributions of word decodability and text predictability in first grade oral reading and printed word learning. Paper presented at the 8th Annual Meeting of the Society for the Scientific Study of Reading.

McCandliss, B. D., Bolger, D.J., & Schneider, W. S. (November, 2000). Habituating visual features versus cognitive codes: an event-related fMRI study of abstract word representations in extrastriate cortex. Poster presentation at the 30th Annual Meeting of the Neuroscience Society. (Published Abstract)

McCandliss, B. D., Bolger, D.J., Sharpe, M. & Schneider, W. S. (April, 2000). Habituating cognitive codes for individual words within 'visual word form' areas: an event-related fMRI study. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Bolger, D.J., Royer, J.M., & Wiley, J. (June, 1999). The Study of Expert Performance in Domain Specific Knowledge Concerning Text Reading Ability. Poster presented at the 80th annual meeting of the American Educational Research Association, Montreal.

Yoon, H.Y, Perfetti, C.A., & Bolger, D.J. (June, 1999). A Cross-Linguistic study on the Perception of Syllables in Native Korean and English Speakers. Poster presented at the annual meeting for the Society for the Scientific Study of Reading, Montreal.

### INVITED TALKS

Colloquia, Department of Psychology, Michigan State University	February, 2008
Experimental Psychology Colloquia, Department of Psychology, Depaul University	May, 2007
Center for the Study of Learning (CSL), Georgetown University	July, 2006
Brain Research Imaging Center (BRIC), University of Chicago	April, 2004

### COURSES TAUGHT

Introductory Psychology, *University of Pittsburgh*  
 Human Cognition Laboratory, *University of Pittsburgh*  
 Research Methods in Psychology, *University of Pittsburgh*  
 Guest Lecturer: Advanced Seminar in Issues in Reading, *University of Pittsburgh*  
 Language Acquisition & Reading Development (EDHD 425), *University of Maryland*

### ADVISING & COMMITTEE ACTIVITY

#### Undergraduate Advising:

*University of Pittsburgh*

Advisor: Office of the Undergraduate Advisor in Psychology	Spring 1999 - Fall 1999
Undergraduate Education Committee: Department of Psychology	Fall 1999 - Spring 2001

*University of Massachusetts*

Student Advisor: Office of the Chief Undergrad Advisor in Psychology	Spring 1996-1998
Student Advisor: College of Arts & Sciences Orientation Program	Summer 1997

#### Administrative Committees:

*University of Pittsburgh*

Undergraduate Education Committee: Department of Psychology	Fall 1999 - Spring 2001
Colloquium Committee: Department of Psychology	Fall 1998 - Spring 1999

*University of Massachusetts*

University General Education Task Force	Fall 1996-Spring 1998
Department of Psychology Undergraduate Studies Committee.	Fall 1997-Spring 1998
Department of Psychology Executive Committee.	Fall 1997-Spring 1998
University Committee on Educational Leadership.	Fall 1997-Spring 1998

### CONSULTING & RESEARCH EXPERIENCE

Consultant: Software Development, Psychology Software Tools, Inc. Pittsburgh, PA	2004-2006
Psychology Experiment Authoring Kit (PEAK): a software package for classroom instruction of experiment development and methodology	

Creative Associates International, Washington D.C.	1997
Haitian Literacy Project: data analyses for a literacy project administered by Creative Associates in Haitian tribal communities, PI: J.M. Royer, PhD. University of Massachusetts	

Research Assistant: Laboratory for the Assessment and Training of Academic Skills, University of Massachusetts	1996-1998
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PI:J.M. Royer, PhD: Intervention for students with learning disabilities

**PROFESSIONAL AFFILIATIONS**

Society for Cognitive Neuroscience  
American Educational Research Association  
Society for the Scientific Study of Reading  
Organization for Human Brain Mapping  
Psychonomics Society

**AD-HOC JOURNAL REVIEWER**

Brain & Language  
Human Brain Mapping  
Discourse Processes  
Neuropsychologia  
NeuroImage