

JAMES R. BOOTH

November, 2011

CONTACT

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EDUCATION

93-95 PhD, Psychology, University of Maryland, College Park
 90-93 MS, Psychology, University of Maryland, College Park
 86-90 BA, Psychology, University of Michigan, Ann Arbor

PROFESSIONAL

11- Member, *Spatial Intelligence Learning Center*, Northwestern University
 09- **Professor, Department of Communication Sciences and Disorders, Northwestern University**
 07- Member, Language, Music and Cognition, *Institute of Complex Systems*, Northwestern University
 06- **Jo Ann G. and Peter F. Dolle Professor in Learning Disabilities, Department of Communication Sciences and Disorders, Northwestern University**
 05- Faculty Affiliate, *Center for International and Comparative Studies*, Northwestern University
 03- Lecturer, *Language Communication and Cognitive Neuroscience*, University of Zagreb
 03- Visiting Professor, *Department of Psychology*, Beijing Normal University
 01- Joint Appointment, *Department of Psychology*, Northwestern University
 00- Fellow, *Cognitive Neurology and Alzheimer's Center*, Northwestern University
 98- Member, *Cognitive Science Program*, Northwestern University
 98- Member, *Language and Cognition Program*, Northwestern University
 98- Member, *Interdepartmental Program in Neuroscience*, Northwestern University
 04-09 Associate Professor, *Department of Communication Sciences and Disorders*, Northwestern University
 99-09 Affiliate Professional Staff, *Department of Radiology*, Evanston Northwestern Healthcare
 98-04 Assistant Professor, *Department of Communication Sciences and Disorders*, Northwestern University
 95-98 Postdoctoral Research Associate, *Department of Psychology*, Carnegie Mellon University
 93-95 Research Fellowship, *National Reading Research Center*, University of Maryland
 91-92 Research Internship, *Child and Family Studies Section*, National Institute of Child Health and Human Development

HONORS

00 Young Investigator Award "Biological and Social Determinants of Child Development" at University of Texas-Houston and Baker Institute for Public Policy at Rice University

- 96-98 National Research Service Award - National Institute of Child Health and Human Development
- 95-96 Postdoctoral Fellowship at Carnegie Mellon University - National Institute of Mental Health
- 93-95 National Reading Research Center Fellowship at University of Maryland - U.S. Department of Education
- 91-92 Intramural Research Training Award - National Institute of Child Health and Human Development

GRANTS

- 12/08-11/13 Booth (PI). *Neural development and disorders of math processing*. National Institute of Child Health and Human Development: \$3,294,620.
- 4/08-3/13 Booth (PI). *Neural development of lexical processing*. National Institute of Child Health and Human Development: \$2,868,276.
- 6/09-5/11 Booth (PI). *Multiple pathway models of attention deficit hyperactivity disorder (ADHD)*. National Institute of Mental Health: \$432,740.
- 5/09-4/11 Desroches (PI). *The neurocognitive mechanisms of language processing in typical development and in dyslexia*. Postdoctoral Fellowship from Natural Sciences and Engineering Research Council of Canada: \$80,000. Role: Mentor.
- 1/08-12/10 Deng (PI). *Superior parietal lobule and lexical processing: Brain imaging studies on artificial lexical learning*. Chinese Natural Science Foundation: 150,000 RMB. Role: Consultant.
- 7/07-6/08 Booth (PI). *Neural development of lexical processing*. National Institute of Child Health and Human Development: \$435,792.
- 7/06-12/08 Booth (PI). *Clinical functional magnetic resonance imaging*. Evanston Northwestern Healthcare: \$97,864.
- 4/03-3/07 Booth (PI). *Neural development of lexical processing*. National Institute of Child Health and Human Development: \$1,108,993.
- 9/02-8/05 Booth (PI). *Brain activation in developmental communication disorder*. National Institute for Deafness and Other Communication Disorders: \$395,800.
- 9/99-1/03 Booth (PI). *Functional imaging of cognitive processes*. General Electric Company: \$173,485.
- 10/01-9/02 Booth (PI). *Neural development of attention and inhibition*. Volwiler Research Fund: \$8,000.
- 2/99-1/00 Booth (PI). *Component processes in reading and oral-language*. Volwiler Research Fund: \$10,000 and Northwestern University Research Grant: \$5,000.
- 9/96-8/98 Booth (PI). *The development of word recognition processes*. National Institute of Child Health and Human Development: \$55,100.

COURSES TAUGHT

Brain and Cognition; Cognitive Development in Atypical Learners; Developmental Cognitive Neuroscience; Developmental Psychology; Language Science; Neuropsychology of Learning Disorders; Fundamentals of Neuroscience (Cognitive Development, Language); Topics in Cognitive Neuroscience (Brain and Language Development)

ARTICLES

68. Bitan T & **Booth JR** (in press). Offline improvement in learning to read a novel orthography depends on direct letter instruction. *Cognitive Science*.
67. Prado J, Chadha A & **Booth JR** (in press). The brain network for deductive reasoning: A quantitative meta-analysis of 28 neuroimaging studies. *Journal of Cognitive Neuroscience*.
66. Li Y, Ding G, **Booth JR**, Huang R, Lv Y Zang Y, He Y & Peng D (in press). Sensitive period for white matter connectivity of superior temporal cortex in deaf people. *Human Brain Mapping*.

65. Prado J, Mutreja R, Zhang H, Mehta R, Desroches AS, Minas J & **Booth JR** (2011). Distinct representations of subtraction and multiplication in the neural systems for numerosity and language. *Human Brain Mapping*, **32**, 1932-1947.
64. Deng Y, Chou TL, Ding GS, Peng DL & **Booth JR** (2011). The involvement of occipital and inferior frontal cortex in learning of Chinese characters. *Journal of Cognitive Neuroscience*, **23**, 1998-2012.
63. Cao F, Khalid K, Lee R, Brennan C, Yang Y, Li K, Bolger DJ & **Booth JR** (2011). Development of brain networks involved in spoken word processing of Mandarin Chinese. *Neuroimage*, **57**, 750-759.
62. McNorgan C, Alvarez A, Bhullar A, Gayda J & **Booth JR** (2011). The prediction of reading skill several years later depends on age and brain region: Implication for developmental models of reading. *Journal of Neuroscience*, **31**, 9641-9648.
61. Lee SH, **Booth JR**, Chen SY & Chou TL (2011). Developmental changes in the inferior frontal cortex for selecting semantic representations. *Developmental Cognitive Neuroscience*, **1**, 338-350.
60. Zhou X, **Booth JR**, Lu J, Zhao H, Butterworth B, Chen C & Dong Q (2011). Age-independent and age-dependent neural substrate for single-digit multiplication and addition arithmetic problems. *Developmental Neuropsychology*, **36**, 338-352.
59. Luessi M, Babacan SD, Molina R, **Booth JR** & Katsaggelos AK (2011). Bayesian symmetrical EEG/fMRI fusion with spatially adaptive priors. *Neuroimage*, **55**, 113-132.
58. Liu L, Vira A, Friedman, Minas J, Bolger DJ, Bitan T & **Booth JR** (2010). Children with reading disability show brain differences in effective connectivity for visual, but not auditory, word comprehension. *PLOS One*, **5**, e13492.
57. Bitan T, Lifshitz A, Breznitz & **Booth JR** (2010). Bidirectional connectivity between hemispheres occurs at multiple levels in language processing, but depends on sex. *Journal of Neuroscience*, **30**, 11576-11585.
56. Desroches AS, Cone NE, Bolger DJ, Bitan T, Burman DD & **Booth JR** (2010). Children with reading difficulties show differences in brain regions associated with orthographic processing during spoken language processing. *Brain Research*, **1356**, 73-84.
55. Cao F, Lee R, Yang Y, Xu G, Li K & **Booth JR** (2010). Cultural constraints on brain development: Evidence from a developmental study of visual word processing in Mandarin Chinese. *Cerebral Cortex*, **20**, 1223-1233.
54. Cao F, Khalid K, Zaveri R, Bolger DJ, Bitan T & **Booth JR** (2010). Neural correlates of priming effects in children during spoken word processing with orthographic demands. *Brain and Language*, **114**, 80-89.
53. Chou TL, Chen CW, Wu MY & **Booth JR** (2009). The role of the inferior frontal gyrus and inferior parietal lobule in semantic processing of Chinese characters. *Experimental Brain Research*, **198**, 465-475.
52. Chou TL, Chen CW, Fan LY, Chen SY & **Booth JR** (2009). A cultural influence on reading for meaning in the developing brain. *Frontiers in Human Neuroscience*, **3**, 1-9.
51. Liu L, Deng X, Peng DL, Cao F, Ding GS, Jin Z, Zeng Y, Li K, Zhu L, Fan N, Deng Y & **Booth JR** (2009). Modality- and task-specific brain regions involved in Chinese lexical processing. *Journal of Cognitive Neuroscience*, **21**, 1473-1487.
50. Bitan T, Cheon J, Lu D, Burman DD & **Booth JR** (2009). Developmental increase in top-down and bottom-up processing in a phonological task: An effective connectivity, fMRI study. *Journal of Cognitive Neuroscience*, **21**, 1135-1145.
49. Burman DD & **Booth JR** (2009). Music rehearsal increases perceptual span for music. *Music Perception*, **26**, 303-320.
48. Cao F, Peng DL, Liu L, Jin Z, Fan N, Deng Y & **Booth JR** (2009). Developmental differences of neurocognitive networks for phonological and semantics processing in Chinese word reading. *Human Brain Mapping*, **30**, 797-809.
47. Bolger DJ, Hornickel J, Cone NE, Burman DD & **Booth JR** (2008). Neural correlates of orthographic and phonological consistency effects in children. *Human Brain Mapping*, **29**, 1416-1429.
46. Bolger DJ, Minas JE, Burman DD & **Booth JR** (2008). Differential effects of orthographic and phonological consistency in cortex for children with and without reading disability. *Neuropsychologia*, **46**, 3210-3224.
45. Cao F, Bitan T & **Booth JR** (2008) Effective connectivity in children with dyslexia during phonological processing. *Brain and Language*, **107**, 91-101.

44. Deng Y, **Booth JR**, Chou TL, Ding GS & Peng DL (2008). Item specific and generalization effects on brain activation when learning Chinese characters. *Neuropsychologia*, **46**, 1864-1876.
43. Cone NE, Burman DD, Bitan T & **Booth JR** (2008). Developmental changes in brain regions involved in phonological and orthographic processing during spoken language processing. *Neuroimage*, **48**, 623-635.
42. Burman DD, Bitan T, & **Booth JR** (2008). Sex differences in neural processing of language among children. *Neuropsychologia*, **46**, 1349-1362.
41. **Booth JR**, Mehdiratta N, Burman DD & Bitan T (2008). Developmental increases in effective connectivity to brain regions involved in phonological processing during tasks with orthographic demands. *Brain Research*, **1189**, 78-89.
40. Bitan T, Burman DD, Chou TL, Lu D, Cone NE, Cao F, Bigio JD & **Booth JR** (2007) The interaction between orthographic and phonological information in children: an fMRI study. *Human Brain Mapping*, **28**, 880-891.
39. **Booth JR**, Cho S, Burman DD & Bitan T (2007). The neural correlates of mapping from phonology to orthography in children performing an auditory spelling task. *Developmental Science*, **10**, 441-451.
38. Bitan T, Cheon J, Lu D, Burman DD, Gitelman D, Mesulam MM & **Booth JR** (2007). Developmental changes in activation and connectivity in phonological processing. *Neuroimage*, **38**, 564-575.
37. Strid JE & **Booth JR** (2007). The effect of phonological structure on visual word access in bilinguals. *Journal of Psycholinguistic Research*, **36**, 383-409.
36. **Booth JR**, Wood L, Lu D, Houk J & Bitan T (2007). The role of the basal ganglia and cerebellum in language processing. *Brain Research*, **1133**, 136-144.
35. **Booth JR**, Bebko G, Burman DD & Bitan T (2007). Children with reading disorder show modality independent brain abnormalities during semantic tasks. *Neuropsychologia*, **45**, 775-783.
34. **Booth JR**, Harasaki Y & Burman, DD (2006). Development of lexical and sentence level context effects for dominant and subordinate word meanings of homonyms. *Journal of Psycholinguistic Research*, **35**, 531-554.
33. Chou TL, Davis MH, Marslen-Wilson WD & **Booth JR** (2006). Phonological priming in visual word recognition for English words: An event related functional MRI study. *Chinese Journal of Psychology*, **4**, 1-18.
32. Blumenfeld, HK, **Booth JR** & Burman DD (2006). Differential prefrontal-temporal neural correlates of semantic processing in children. *Brain and Language*, **99**, 226-235.
31. Chou TL, **Booth JR**, Bitan T, Burman DD, Bigio JD, Cone NE, Lu D & Cao, F (2006). Developmental and skill effects on the neural correlates of semantic processing to visually presented words. *Human Brain Mapping*, **27**, 915-924.
30. Bitan T, Burman DD, Lu D, Cone NE, Gitelman DR, Mesulam MM & **Booth JR** (2006). Weaker top-down modulation from inferior frontal gyrus in children. *Neuroimage*, **33**, 991-998.
29. Cao F, Bitan T, Chou TL, Burman DD & **Booth JR** (2006). Deficient orthographic and phonological representations in developmental dyslexics revealed by brain activation patterns. *Journal of Child Psychology and Psychiatry*, **40**, 1041-1050.
28. Plaut DC & **Booth JR** (2006). More modeling but still no stages: Reply to Borowsky and Besner (2006). *Psychological Review*, **113**, 196-200.
27. **Booth JR**, Lu D, Burman DD, Chou TL, Jin Z, Peng DL, Zhang L, Ding GS, Deng Y & Liu L (2006). Specialization of phonological and semantic processing in Chinese word reading. *Cognitive Brain Research*, **1071**, 197-207.
26. Chou TL, **Booth JR**, Burman DD, Bitan T, Bigio JD, Lu D & Cone NE (2006). Developmental changes in the neural correlates of semantic processing. *Neuroimage*, **29**, 11-41-1149.
25. Bitan T, **Booth JR**, Choy J, Burman DD, Gitelman DR & Mesulam MM (2005) Shifts of effective connectivity within a language network during rhyming and spelling. *Journal of Neuroscience*, **25**, 5397-5403.
24. **Booth JR**, Burman DD, Meyer JR, Zhang L, Trommer B, Davenport N, Li W, Parrish TR, Gitelman DR & Mesulam MM (2005). Larger deficits in brain networks for response inhibition than for visual selective attention in attention deficit hyperactivity disorder (ADHD). *Journal of Child Psychology and Psychiatry*, **46**, 94-111.

23. **Booth JR**, Burman DD, Meyer JR, Zhang L, Gitelman DR, Parrish TR & Mesulam MM (2004). Development of brain mechanisms for processing orthographic and phonological representations. *Journal of Cognitive Neuroscience*, **16**, 1234-1249.
22. **Booth JR**, Burman DD, Meyer JR, Trommer B, Davenport N, Parrish TR, Gitelman DR & Mesulam MM (2004). Brain-behavior correlation in children depends on the neuro-cognitive network. *Human Brain Mapping*, **23**, 99-108.
21. **Booth JR**, Burman DD, Meyer JR, Zhang L, Trommer B, Davenport N, Li W, Parrish TR, Gitelman DR & Mesulam MM (2003). Neural development of selective attention and response inhibition. *NeuroImage*, **20**, 737-751.
20. **Booth JR**, Burman DD, Meyer JR, Zhang L, Choy J, Gitelman DR, Parrish TR & Mesulam MM (2003). Modality-specific and -independent developmental differences in the neural substrate for lexical processing. *Journal of Neurolinguistics*, **16**, 383-405.
19. **Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (2003). The relation between brain activation and lexical performance. *Human Brain Mapping*, **19**, 155-169.
18. **Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (2002). Modality independence of word comprehension. *Human Brain Mapping*, **16**, 251-261.
17. **Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (2002). Functional anatomy of intra- and cross-modal lexical tasks. *Neuroimage*, **16**, 7-22.
16. **Booth JR** & Perfetti CA (2002). Onset and rime structure influences naming by not early word identification in children and adults. *Scientific Studies of Reading*, **6**, 1-23.
15. **Booth JR**, Burman DD, Van Santen FW, Harasaki Y, Gitelman DR, Parrish TB & Mesulam MM (2001). The development of specialized brain systems for reading and oral-language. *Child Neuropsychology*, **7**, 119-141.
14. **Booth JR** & Burman DD (2001). Development and disorders of neurocognitive systems for oral-language and reading. *Learning Disabilities Quarterly*, **24**, 205-215.
13. **Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (2000). Developmental and lesion effects in brain activation during sentence comprehension and mental rotation. *Developmental Neuropsychology*, **18**, 139-169.
12. Plaut DC & **Booth JR** (2000). Individual and developmental differences in semantic priming: Empirical findings and computational support for a single-mechanism account of lexical processing. *Psychological Review*, **107**, 786-823.
11. **Booth JR**, MacWhinney B & Harasaki Y (2000). Developmental differences in visual and auditory processing of complex sentences. *Child Development*, **4**, 979-1001.
10. **Booth JR**, Perfetti CA, MacWhinney B & Hunt SB (2000). The association of rapid temporal perception with orthographic and phonological processing in reading impaired children and adults. *Scientific Studies of Reading*, **4**, 101-132.
9. **Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (1999). Functional organization of activation patterns in children: Whole brain fMRI imaging during three different cognitive tasks. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, **23**, 669-682.
8. **Booth JR**, Perfetti CA & MacWhinney B (1999). Quick, automatic, and general activation of orthographic and phonological representations in young readers. *Developmental Psychology*, **35**, 3-19.
7. Epelboim J, **Booth JR**, Ashkenazy R, Taleghani A & Steinman RM (1997). Fillers and spaces in text: Evidence for the importance of word recognition during reading. *Vision Research*, **37**, 2899-2914.
6. **Booth JR**, Hall WS, Robison GC & Kim SY (1997). Acquisition of mental state verbs by 2- to 5-year-old children. *Journal of Psycholinguistic Research*, **26**, 581-603.
5. Epelboim J, **Booth JR** & Steinman RM (1996). Much ado about nothing: The place of space in text. *Vision Research*, **36**, 465-470.
4. **Booth JR** & Hall WS (1995). Development of the understanding of the polysemous mental state verb "know". *Cognitive Development*, **10**, 529-549.
3. **Booth JR** & Hall WS (1994). Role of the cognitive internal state lexicon in reading comprehension. *Journal of Educational Psychology*, **86**, 413-422.
2. Epelboim J, **Booth JR** & Steinman RM (1994). Reading unspaced text: Implications for theories of reading eye movements. *Vision Research*, **34**, 1735-1766.

1. Stevenson HW, Chen C & **Booth JR** (1990). Influences of schooling and urban-rural residence on gender differences in cognitive abilities and academic achievement. *Sex Roles*, **23**, 535-551.

CHAPTERS

- Strid JE & **Booth JR** (2010). Visual word access in monolinguals and bilinguals in English and Spanish. In EF Caldwell (Ed), *Bilinguals: Cognition, Education and Language Processing* (pp. 123-146). Nova Science Publishers.
- Booth JR** (2010). Development and language. In G. Koob, M Le Moal & RF Thompson (Eds), *Encyclopaedia of Behavioral Neuroscience*, volume 1, pp. 387-395: Oxford: Academic Press.
- Booth JR** (2007). Brain bases of learning and development of language and reading. In D Coch, G Dawson & KW Fischer (Eds), *Human Behavior, Learning and the Developing Brain* (pp. 279-300). Guilford Press.
- Booth JR** & Burman DD (2005). Using neuro-imaging to test developmental models of reading acquisition. In H Catts & A Kamhi (Eds), *Connections Between Language and Reading Disabilities* (pp. 131-154). Lawrence Erlbaum Associates: Mahwah, NJ.

PROCEEDINGS

- Burman DD & **Booth JR** (2004). Rehearsal increases perceptual span for rehearsed music and text. In SD Lipscomb, R Ashley, RO Gjerdingen & P Webster (Eds), *Proceedings of the Eighth International Conference on Music Perception and Cognition* (pp. 378-381).
- Booth JR**, Epelboim J & Steinman RM (1995). The relative importance of spaces and meaning in reading. *Proceedings of the 17th Annual Cognitive Science Society*, **17**, 533-538.

REPORTS

- Booth JR** & Hall WS (1995). A hierarchical model of mental state verbs. *Reading Research Report*, **42**, 1-22.
- Booth JR** & Hall WS (1994). Relationship of reading comprehension to the cognitive internal state lexicon. *Reading Research Report*, **14**, 1-35.
- Booth JR** & Hall WS (1994). Metacognitive development and the cognitive internal state lexicon. *Reading Research Report*, **18**, 1-28.

MEDIA COVERAGE

- Baby talk (November, 2011). *Huffington Post*.
- Colleges gender gap (January, 2010). *Los Angeles Times*.
- What goes on inside the heads of boys and girls may not be all that different (September, 2009). *ABC News*.
- Male, female anatomy also differs in the brain, researchers say (2008). *Bloomberg*. bloomberg.com
- Gender differences affect language processing (Fall, 2008). *Northwestern: For Alumni and Friends of Northwestern University*.
- Gender differences in kids appear biological (2008). *Science Magazine*. sciencenow.sciencemag.org. *Scientific American*. www.sciam.com. *Popular Science*. popsci.com. *ABC Live*. abclive.in. *Chicago Tribune*. chicagotribune.com. *Baltimore Sun*. baltimoresun.com. *Richard Dawkins*. richarddawkins.net. *United Press International*. upi.com. *Times of India*. timesofindia.indiatimes.com. *Science Daily*. sciencedaily.com. *Med India*. medindia.net. *RedOrbit*. redorbit.com. *Medical News Today*. medicalnewstoday.com. *Medic Exchange*. medicexchange.com. *Bio Medicine*. bio-medicine.org. *News Linker*. newslinker.net. *Only Psychology*. onlypsychology.com. *Web India 123*. news.webindia123.com. *Scientific Blogging*. scientificblogging.com. *The Ticker*. theticker.org. *Soft Pedia*. news.softpedia.com. *Language Log*. itre.cis.upenn.edu. *Pod Black*. podblack.wordpress.com. *Daily Galaxy*. dailygalaxy.com.

- Read all about it: Kids take different neural paths to reach print mastery (2005). In *Science News: The Weekly Magazine of Science*, **167**, 280-281.
- Developmental changes in the linguistic brain after puberty (2005). In *Trends in Cognitive Sciences*, **9**, 164-167.
- Brain networks change according to cognitive task (2005). *Science Daily*. sciencedaily.com. *RxPG News*. rxpgnews.com. *Medical News Today*. medicalnewstoday.com. *Omniomix*. omniomix.com. *Bioinfo Online*. bioinfo-online.net. *Bright Surf*. brightsurf.com. *Medi lexicon*. medilexicon.com. *World Health*. worldhealth.net. *Medi Term*. stemscells.info. *I-Newswire*. i-newswire.com. *Eureka!ert*. eureka!ert.org. *News Medical Net*. news-medical.net.
- Neuroanatomy of perceptual learning while reading words and music (2004). In *Neuroscience Press Book*. Washington, DC: Society for Neuroscience.

INVITED UNIVERSITY AND INSTITUTE TALKS

- Northwestern University, Interdepartmental Neuroscience Program (September, 2011).
- Northwestern University, Pepper Lecture. Evanston, IL (May, 2011).
- Georgia State University, Center for Research on Atypical Development and Learning & Center for Advanced Brain Imaging: Atlanta, GA (March, 2011)
- Northwestern University, Junior Science Café: Evanston, IL (March, 2011).
- Northwestern University, Center for Talent Development: Evanston, IL (July, 2010).
- University of Illinois – Chicago, CampStar: Highland Park, IL (July, 2010)
- University of Chicago, Brain Imaging Research Center: Chicago, IL (March, 2010).
- University of California – San Diego, Department of Radiology: San Diego, CA (July, 2009).
- Tulane University, Department of Psychology: New Orleans, LA (January, 2009).
- Vanderbilt University, Learning Sciences Institute: Nashville, TN (November, 2009).
- Learning Aabled Center: Oak Park, IL (April, 2008).
- Eureka Schools: Eureka, IL (April, 2008).
- Beijing Normal University, State Key Laboratory of Cognitive Neuroscience and Learning: Beijing, P R China (March, 2008).
- University of Chicago, Department of Psychology: Chicago, IL (January, 2008).
- University of Illinois, Clinical Neuroscience: Chicago, IL (December, 2006).
- Ridge Academy, The Brain Learning Institute: Chicago, IL (November, 2006).
- Children’s Memorial Hospital, Department of Pediatric Neurology: Chicago, IL (February, 2006).
- Case Western University, Department of Communication Sciences: Cleveland, OH (January, 2006).
- University of Chicago, Brain Research Imaging Center: Chicago, IL (January, 2006).
- Children’s Memorial Hospital, Department of Child and Adolescent Psychiatry: Chicago, IL (February, 2005).
- Rush University Medical Center, Neurobehavioral Center: Skokie, IL (September, 2004).
- University of Chicago, Department of Psychology: Chicago, IL (November, 2003).
- University of Kansas, Department of Speech-Language-Hearing: Sciences and Disorders: Lawrence, KS (April, 2003).
- Vanderbilt University, Department of Psychology and Human Development: Nashville, TN (April, 2003).
- Dartmouth College, Department of Education: Hanover, NH (January, 2003).
- Harvard University, Department of Psychology: Boston, MA (January, 2003).
- Rice University, Department of Psychology: Houston, TX (January, 2003).
- Northwestern University, Cognitive Neurology and Alzheimer’s Disease Center: Chicago, IL (December, 2002).
- Hong Kong University, Department of Linguistics and Department of Psychology: Hong Kong, P R China (September, 2002).
- Beijing Normal University, Department of Psychology: Beijing, P R China (September, 2002).
- 306 Hospital, Functional Magnetic Resonance Imaging Center: Beijing, P R China (September, 2002).
- University of Illinois, Department of Psychiatry: Chicago, IL (August, 2001).
- Evanston Hospital, Department of Radiology: Evanston, IL (February, 2001).
- University of Chicago, Department of Neurology: Chicago, IL (January, 2001).
- Children’s Memorial Hospital, Department of Radiology: Chicago, IL (August, 2000).

Northwestern University, Cognitive Neurology and Alzheimer's Disease Center: Chicago, IL (December, 1999).
 Northwestern University, Department of Psychology: Evanston, IL (January, 1999).
 University of Illinois, Department of Psychology: Chicago, IL (October, 1998).
 National Institute of Neurological Disorders and Stroke, Epilepsy Research Branch: Washington, DC (August, 1998).
 Wayne State University, Department of Psychiatry and Behavioral Neurosciences: Detroit, MI (June, 1998).
 Northwestern University, Department of Communication Sciences and Disorders: Evanston, IL (March, 1998).
 Dalhousie University, Department of Psychology: Nova Scotia, Canada (March, 1998).
 University of Kansas, Department of Human Development and Family Life: Lawrence, KS (February, 1998).
 University of Miami, Department of Psychology: Coral Gables, FL (February, 1998).
 Wayne State University, Department of Psychology: Detroit, MI (January, 1998).

CONFERENCE: INVITED PRESENTATIONS

International Conference on the Cognitive Processing of Chinese and Other Asian Languages, *Interactive specialization of the brain over language development*: Beijing, China (November, 2009).
 Illinois Branch of International Dyslexia Association, *The neural basis of reading development and disabilities*: Oak Brook, IL (October, 2008).
 German Dyslexia Association, *The neural basis of orthographic and phonological processing*: Berlin, Germany (October, 2008).
 New York Branch of International Dyslexia Association, *The neural basis of reading development and disabilities*: New York, NY (March, 2008).
 Searle Family Symposium, *Neural substrate of disabilities in the developing brain*: Evanston, IL (December, 2007).
 International Dyslexia Association, *The neural substrate of the development of auditory and visual word representations*: Denver, CO (November, 2005).
 Illinois Branch of International Dyslexia Association, *The neural substrate of the development of auditory and visual word representations*: Oak Brook, IL (October, 2005).
 Illinois Branch of International Dyslexia Association, *Development of the functional neuroanatomy for lexical processing*: Oak Brook, IL (October, 2003).
 Merrill Advanced Studies Center, *Access and conversion between spoken and written language representations*: Tempe, AZ (March, 2003).
 Psychonomics: Language Comprehension across the Lifespan, *Imaging neural development of oral and written language processing*: Kansas City, MO (November, 2002).
 Illinois Branch of International Dyslexia Association, *Brain imaging in diagnosis and intervention of reading disorders*: Oak Brook, IL (October, 2000).
 Early Communication and Language Development, *The development of neuro-cognitive networks for component processes of oral-language and reading*: Dubrovnik, Croatia (October, 1999).
 Pediatric Neuroimaging Conference, *The development of neuro-cognitive networks for component processes of oral-language and reading*: McClean, VA (September, 1999).

CONFERENCE: ORGANIZED SYMPOSIUMS

Organization for Human Brain Mapping, *Connectivity in the developing brain*: Barcelona, Spain (June, 2010).
 Society for Research in Child Development, *Developmental neurobiology of oral and written language*: Tampa, FL (April, 2003).
 Language and Cognition Program, *Language development and the brain*: Northwestern University, Evanston, IL (January-March, 2003).

- Learning Disabilities Conference, *The potential role of brain imaging in assessment, diagnosis, and intervention in children with learning disorders*: Northwestern University, Evanston, IL (April, 2000).
- Society for Research in Child Development, *Functional neuroimaging of cognitive development*: Albuquerque, NM (April, 1999).
- Society for Research in Child Development, *How does phonology support reading?:* Washington, DC (April, 1997).

CONFERENCE: PAPERS

- McNorgan C, Alvarez A, Bhullar A, Gayda J & **Booth JR** (July, 2011). *fMRI brain activation in language network predicts future reading ability*. Scientific Studies of Reading: St. Pete, FL.
- McNorgan C, Alvarez A, Bhullar A, Gayda J & **Booth JR** (November, 2010). *fMRI brain activation in language network predicts future reading ability*. Psychonomics: St Louis, MO.
- Luessi M, Babacan SD, **Booth JR** & Katsaggelos AK (December, 2010). *M/EEG source localization using sparse Bayesian learning with temporal smoothness priors*. Neural Information Processing Systems: Vancouver, Canada.
- Cone NE & **Booth JR** (July, 2010). *Phono-orthographic and attentional control factors in intra- and cross-modal rhyme decision tasks in reading-disabled versus typically-achieving children*. Society for the Scientific Studies of Reading: Berlin, Germany.
- Bitan T & **Booth JR** (June, 2010). *Effects of age and skill on effective connectivity within and between hemispheres during language processing in children*. Organization for Human Brain Mapping: Barcelona, Spain.
- Corbridge S, Cooke G, Gayda J & **Booth JR** (April, 2010). *The influence of reward on spatial and verbal working memory in adults*. Chicago Area Undergraduate Research Symposium: Depaul University, Chicago.
- Luessi M, Babacan SD, **Booth JR** & Katsaggelos AK (March, 2010). *Symmetrical EEG/fMRI fusion with spatially adaptive priors using variational distribution approximation*. IEEE International Conference on Acoustics, Speech and Signal Processing: Dallas, TX.
- Liu L, Wang W, You W, Li Y, Zhao X, **Booth JR** & Peng DL (October, 2009). *Chinese dyslexia shows language specific and universal deficits in brain organization*. International Conference on the Processing of East Asian Languages: Beijing, China.
- Bolger DJ, Gray J, Minas J, Cao F, Burman DD & **Booth JR** (June, 2009). *Differential effects of phonological and orthographic consistency in cortex in children with and without reading disorders*. Society for the Scientific Studies of Reading: Boston, MA.
- Bitan T, Lifshitz A, Breznitz Z & **Booth JR** (May, 2009). *Inter-hemispheric connectivity during phonological processing in children*. The Young and Adult Brain. Learning Disabilities: Prevention and Intervention: Haifa, Israel.
- Desroches AS, Joannise M & **Booth JR** (May, 2009). *Identifying neural markers of language processing deficits in dyslexia*. Canadian Association Neuroscience Meeting: Vancouver, BC.
- Cone NE, Burman DD, Bitan T & **Booth JR** (June, 2007). *Neural correlates of the interaction of phonological and orthographic processing in children during an auditory rhyme decision task*. Organization for Human Brain Mapping: Chicago, IL.
- Burman DD & **Booth JR**. (August, 2004). *Rehearsal increases perceptual span for rehearsed music and text*. International Conference on Music Perception and Cognition: Evanston, IL.
- Booth JR**, Burman DD & Meyer JR (April, 2003). *Neural development of auditory and visual lexical processing*. Society for Research in Child Development: Tampa, FL.
- Booth JR**, Burman DD, Meyer JR, Trommer B, Gitelman DR & Mesulam MM (November, 2002). *Neural development of selective attention and response inhibition*. Psychonomic Society: Kansas City, MO.
- Martensen H, Sandra D, **Booth JR**, Geudens A & Perfetti CA (September, 2002). *Co-report effects for CV and VC primes in perceptual identification of written words*. Architectures and Mechanisms for Language Processing: Tenerife, Canary Islands, Spain.
- Sandra D, **Booth JR**, Martensen H, Geudens A & Perfetti CA (June, 2002). *Which factors cause the emergence of onset-rime effects in word reading? The role of grapheme-phoneme consistency, orthographic pattern frequency, and experimental task*. Society for the Scientific Studies of Reading: Chicago, IL.

- Booth JR**, Harasaki Y & Burman, DD (June, 2002). *Development of lexical and sentence level context effects for dominant and subordinate word meanings of homonyms*. Society for the Scientific Studies of Reading: Chicago, IL.
- Sandra D, **Booth JR**, Martensen H, Geudens A & Perfetti CA (April, 2002). *The role of rime: A cross-linguistic comparison of rime effects*. Experimental Psychology Conference. Leuven, Belgium.
- Sandra D, **Booth JR**, Geudens A & Perfetti CA (May, 2001). *Identifying the locus of rime effects in reading: Cross-linguistic and cross-task comparisons*. Society for the Scientific Studies of Reading: Denver, CO.
- Booth JR**, Perfetti CA, Hart L & Barlo K (May, 2001). *Developmental and reading skill differences of consistency effects in visual and auditory word recognition*. Society for the Scientific Studies of Reading: Denver, CO.
- Booth JR**, Burman DD & Meyer JR (April, 2001). *Brain activation during linguistic tasks depends on modality and processing component*. American Society of Neuroradiology: Boston, MA.
- Booth JR** & Perfetti CA (July, 2000). *Onset and rime structure influences naming but not early word identification in children and adults*. Society for the Scientific Studies of Reading: Stockholm, Sweden.
- Booth JR** (April, 2000). *Principles of neuro-cognitive development in reading and oral-language*. Learning Disabilities Conference at Northwestern University: 'The potential role of brain imaging in assessment, diagnosis, and intervention in children with learning disorders': Evanston, IL.
- Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (April, 1999). *The development of functional neural networks in sentence comprehension, visual-spatial manipulation, and semantic search*. Society for Research in Child Development: Albuquerque, NM.
- Booth JR**, MacWhinney B & Harasaki Y (November, 1998). *Children's visual and auditory processing of complex sentences*. Psychonomic Society: Dallas, TX.
- Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (September, 1998). *Functional neuroimaging of cognitive development*. Northwestern University Institute for Neuroscience Retreat: Evanston, IL.
- Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (June, 1998). *Functional organization of activation patterns in children: Whole brain fMRI imaging during three different cognitive tasks*. Brain Imaging of Neurodevelopment: Dearborn, MI.
- Booth JR**, Hunt SB, Perfetti CA & MacWhinney B (April, 1998). *The influence of rapid sequential perception on orthographic and phonological processing in reading disabled children and adults*. Society for the Scientific Studies of Reading: San Diego, CA.
- Plaut DC & **Booth JR** (November, 1997). *Modulation of associative priming effects by age and perceptual ability: Empirical findings and a computational model*. Psychonomic Society: Philadelphia, PA.
- MacWhinney B, Feldman H, Gupta P & **Booth JR** (November, 1997). *Language processing in children with focal brain lesions*. Psychonomic Society: Philadelphia, PA.
- Booth JR**, Perfetti CA & MacWhinney B (April, 1997). *Magnitude of orthographic and phonological priming depends on word identification skill*. Society for Research in Child Development: Washington, DC.
- Booth JR** (April, 1997). *Visual word processing and sentence processing in children with focal brain lesions*. Society for Research in Child Development: Washington, DC.
- Epelboim J, **Booth JR**, Ashkenazy R, Taleghani A & Steinman RM (September, 1996). *Fillers and spaces in text: Implications for the relative importance of word recognition and physical features of text during reading*. European Conference on Visual Perception: Strasbourg, France.
- Booth JR**, Hall WS, Robison GC & Kim SY (June, 1996). *Role of parental linguistic input on the acquisition of mental state verbs by 2- to 8-year-old children*. Jean Piaget Society: Philadelphia, PA.
- Epelboim J, **Booth JR**, Airey D & Steinman RM (May, 1992). *Eye movements while reading unspaced text*. Association for Research in Vision and Ophthalmology: Tampa, FL.

CONFERENCE: POSTERS

- Awati N, McNorgan C & **Booth JR** (April, 2012). *Primary auditory cortical areas show age-related increases in sensitivity to multimodal congruency*. Cognitive Neuroscience Society: Chicago, IL.

- Tennekoon M, Cooke G & **Booth JR** (April, 2012). *Decoupling of the reward and working memory network in children*. Cognitive Neuroscience Society: Chicago, IL.
- Wang JX, Amaral LAN & **Booth JR** (April, 2012). *Task-related functional connectivity reveals multiple scales of cognitive processing*. Cognitive Neuroscience Society: Chicago, IL.
- Mutreja R, Prado J & **Booth JR** (April, 2012). *The neural development of arithmetic: Task dependent recycling of numerical and verbal mechanisms*. Cognitive Neuroscience Society: Chicago, IL.
- Prado J, Lu J, Liu L, Qi D, Zhou X & **Booth JR** (April, 2012). *Culture and education shape the neural bases of individual differences in arithmetic skill*. Cognitive Neuroscience Society: Chicago, IL.
- Brennan C, Cao F, Pedroarena-Laele N, McNorgan C & **Booth JR** (April, 2011). *Learning to reading reorganizes the oral language network only in alphabetic writing systems*. Cognitive Neuroscience Society: Chicago, IL.
- Desroches AS, Europa E, McNorgan C, Minas JE & **Booth JR** (November, 2011). *What drives group differences in brain activity between children with and without reading disability?* Psychonomics Society: Seattle, WA.
- Wang JX, Amaral LAN & **Booth JR** (September, 2011). *Identification and classification of functional modules in the brain*. Neuroinformatics: Boston, MA.
- Brennan C & **Booth JR** (June, 2011). *Instruction methods foster differential automaticity and sensitivity to orthographic grain size*. Mind, Brain and Education: San Diego, CA.
- Cooke G, Tennekoon M, Gayda J & **Booth JR** (June, 2011). *The interaction of reward size and feedback timing on verbal working memory processes*. Organization for Human Brain Mapping: Quebec City, Canada
- Prado J, Mutreja R & **Booth JR** (June, 2011). *The role of verbal and spatial processes in deductive reasoning*. Organization for Human Brain Mapping: Quebec City, Canada.
- Wang JX, McClary DW, Booth JR & Amaral LAM (March, 2011). *Identification and classification of functional modules in the brain*. Complexity Conference: Evanston, IL.
- Fan LY, Chou TL, Bitan T & **Booth JR** (November, 2010). *Hierarchical model comparisons on effective connectivity in semantic judgments of Chinese characters*. Society for Neuroscience: San Diego, CA.
- Lee SH, **Booth JR**, Chen SY & Chou TL (November, 2010). *Developmental changes in the inferior frontal cortex for selecting semantic representations*. Society for Neuroscience: San Diego, CA.
- Mutreja R, Prado J, Zhang H, Mehta R, Desroches AS, Minas J & **Booth JR** (November, 2010). *The representations of subtraction and multiplication in the neural systems for numerosity and language*. Society for Neuroscience: San Diego, CA.
- Cooke G, Gayda J & **Booth JR** (June, 2010). *The influence of reward on working memory in typically developing children*. Organization for Human Brain Mapping: Barcelona, Spain.
- Chou TL, Lee SH, Fan LY & **Booth JR** (June, 2010). *Developmental changes in the inferior parietal lobule for semantic integration*. Organization for Human Brain Mapping: Barcelona, Spain.
- Zhang H, Bartolotti J, Gitelman DR, Bitan T & **Booth JR** (June, 2010). *Developmental integration and segregation of an emerging language module*. Organization for Human Brain Mapping: Barcelona, Spain.
- McNorgan C, Desroches AS, Minas J & **Booth JR** (June, 2010). *The lexicality effect in cross-modal language processing in children depends on orthographic and phonological similarity*. Organization for Human Brain Mapping: Barcelona, Spain.
- Goori-Mussel O, Bitan T, Gilboa A & **Booth JR** (June, 2010). *Changes in effective connectivity underlying Repetition Suppression in visual words*. Organization for Human Brain Mapping: Barcelona, Spain.
- Minas JE, Desroches AS, McNorgan CP, Bolger DJ & **Booth JR** (June, 2010). *Developmental divergence in brain networks for phonological processing of words and nonwords*. Organization for Human Brain Mapping: Barcelona, Spain.
- Brennan C, Cao F & **Booth JR** (June, 2010). *Differences in the neural substrate for reading English and Chinese emerge over development*. Organization for Human Brain Mapping: Barcelona, Spain.
- Desroches AS, Minas JE, McNorgan CP & **Booth JR** (June, 2010). *Auditory word and nonword rhyming in children: Influences of phonological and orthographic similarity*. Organization for Human Brain Mapping: Barcelona, Spain.

- Liu L, Wang W, You W, Li Y, Zhao X, **Booth JR** & Peng DL (June, 2010). *Chinese dyslexia shows orthographic and phonological deficits in brain organization*. Organization for Human Brain Mapping: Barcelona, Spain.
- Luessi M, Babacan SD, Molina R, **Booth JR** & Katsaggelos AK (June, 2010). *Bayesian spatially adaptive EEG/fMRI fusion with application to a word rhyming task*. Organization for Human Brain Mapping: Barcelona, Spain.
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- Deng Y, **Booth JR**, Chou TL, Ding GS & Peng DL (April, 2010). *Neural basis of phonological training in a logographic writing system*. Cognitive Neuroscience Society; Montreal, Canada.
- Zhou X, Chen C, **Booth JR**, Yuan H, Zhao H, Ding G, Xu J & Dong Q (November, 2009). *Positive and negative correlates of number associate learning*. International Conference on Education, Cognition and Neuroscience.
- Fan LY, Chou TL, Bitan T & **Booth JR** (October, 2009). *Interaction between brain regions during semantic processing of Chinese characters*. International Conference on the Processing of East Asian Languages: Beijing, China.
- Fan LY, Chou TL, Bitan T & **Booth JR** (October, 2009). *Effective connectivity in semantic judgments of Chinese characters*. Society for Neuroscience, Chicago, USA.
- Luessi M, Babacan D, **Booth JR** & Katsaggelos AK (August, 2009). *Symmetrical EEG/fMRI fusion with spatially adaptive priors using variational distribution approximation*. Inverse Problem in Brain Imaging and Multimodal Fusion: Montreal, Canada.
- Bitan T, Lifshitz A, Breznitz Z & **Booth JR** (June, 2009). *Inter-hemispheric connectivity during phonological processing*. Organization for Human Brain Mapping: San Francisco.
- Zhou X, **Booth JR**, Lu J, Zhao H, Butterworth B, Chen C & Dong Q (June, 2009). *Age-independent and age-dependent neural substrate for single-digit multiplication and addition arithmetic problems*. Organization for Human Brain Mapping: San Francisco.
- Liu L, Friedman EB, Bolger DJ, Bitan T & **Booth JR** (June, 2009). *Children with reading disability show deficits in top-down and bottom-up processing during semantic tasks in both visual and auditory modalities*. Organization for Human Brain Mapping: San Francisco.
- Desroches AS, Joanisse MF, Newman RN, Morson E & **Booth JR** (June, 2009). *ERPs reveal the temporal dynamics of phonological processing across typical development*. Organization for Human Brain Mapping: San Francisco.
- Chou TL, Fan LY, Lee SH, Chen CW & **Booth JR** (June, 2009). *Developmental changes in the neural substrate for semantic processing in Chinese children*. Organization for Human Brain Mapping: San Francisco.
- Cao F, Lee R, Shu H, Yang Y, Xu G, Li K & **Booth JR** (June, 2009). *Culture constraints on brain development: Evidence from a developmental study of visual word processing in Chinese*. Organization for Human Brain Mapping: San Francisco.
- Lifshitz A, Bitan T, Breznitz Z & **Booth JR** (December, 2008). *Inter-hemispheric connectivity during auditory rhyming task in children*. Israeli Society for Neuroscience: Eliat, Israel.
- Bolger DJ, Gray J, Burman DD & **Booth JR** (November, 2008). *Cortical effects of orthographic and phonological consistency in spoken word tasks*. Psychonomic Society: Chicago, IL.
- Bitan T, Cheon J, Lu D, Burman DD & **Booth JR** (July, 2008). *Girls show more top-down influence on fusiform during reading: An effective connectivity, fMRI study*. Organization for Human Brain Mapping: Melbourne, Australia.
- 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.
- Bolger DJ, Minas J, Cao F, Burman DD, **Booth JR** (July, 2008). *Differential effects of phonological and orthographic consistency in cortex for children with and without reading disorders*. Society for Scientific Studies of Reading: Asheville, NC.
- Cone NE, Bolger DJ, Na C, Burman DD & **Booth JR** (April, 2008). *Children with dyslexia show weaker brain activation in orthographic and phonological processing regions during spoken language processing*. Cognitive Neuroscience Society: San Francisco, CA.

- Lu D, Burman DD, Bolger DJ & **Booth JR** (April, 2008). *Developmental stability and changes in the neural substrate for lexical processing: A longitudinal fMRI study*. Cognitive Neuroscience Society: San Francisco, CA.
- Zaveri R, Cao F, Bolger DJ & **Booth JR** (April, 2008). *Orthographic and phonological cortical priming effects in children during spoken language processing*. Cognitive Neuroscience Society: San Francisco, CA.
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- Cao F, Peng DL, Liu L, Jin Z, Fan N, Deng Y & **Booth JR** (April, 2008). *Developmental differences of neurocognitive networks for phonological and semantic processing in Chinese word reading*. Cognitive Neuroscience Society: San Francisco, CA.
- Chou TL, Fan YL, Bitan T & **Booth JR** (June, 2007). *Effective connectivity during semantic processing among children*. Organization for Human Brain Mapping: Chicago, IL.
- Bolger DJ, Hornickel J, Burman DD & **Booth JR** (June, 2007). *Orthographic and phonological priming effects in left fusiform gyrus among children*. Organization for Human Brain Mapping: Chicago, IL.
- Hornickel J, Bolger DJ, Burman DD, Cone NE & **Booth JR** (June, 2007). *Task differences in the neural correlates of orthographic and phonological consistency effects among children*. Organization for Human Brain Mapping: Chicago, IL.
- Burman DD, Bitan T & **Booth JR** (June, 2007). *Sex differences in neural processing of language among children*. Organization for Human Brain Mapping: Chicago, IL.
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- Cao F, Bitan T, Chou T, Burman DD & **Booth JR** (June, 2007). *Altered brain activity and effective connectivity in children with dyslexia during phonological processing*. Organization for Human Brain Mapping: Chicago, IL.
- Wood L, Lu D, Houk JC, Bitan T & **Booth JR** (June, 2007). *The role of the basal ganglia and cerebellum in language processing*. Organization for Human Brain Mapping: Chicago, IL.
- Booth JR**, Bitan T, Cao F, Chou T, Bebko G & Burman DD (May, 2007). *Development changes in activation patterns and effective connectivity during phonological and semantic processing and its breakdown in reading disorders*. Cognitive Neuroscience Society: New York, NY.
- Booth JB, Bitan T, Burman DD, Lu D, Cheon J, Gitelman DR & Mesulam MM (April, 2006). *Developmental changes in effective connectivity in a phonological judgment task*. Cognitive Neuroscience Society: San Francisco, CA.
- Bitan T, **Booth JR** & Cheon J (April, 2006). *Procedural learning of an artificial script only occurs with explicit letter instruction*. Cognitive Neuroscience Society: San Francisco, CA.
- Deng Y, **Booth JR**, Chou TL, Peng DL, Ding GS & Hu Z (April, 2006). *Learning the meanings of Chinese phonograms induces brain activation changes for both trained and transfer characters*. Cognitive Neuroscience Society: San Francisco, CA.
- Bitan T, **Booth JR**, Lu D, Cone NE, Burman DD, Gitelman DR & Mesulam MM (June, 2005). *The left IFG in children is less effective in coordinating task-dependent shifts in effective connectivity*. Organization for Human Brain Mapping: Toronto, Canada.
- Bitan T, **Booth JR**, Chou TL, Burman DD, Lu D, Cone NE & Bigio JD (June, 2005). *Developmental differences in neural correlates of orthographic and phonological judgments of written words*. Organization for Human Brain Mapping: Toronto, Canada.
- Booth JR**, Bitan T, Chou TL, Burman DD, Lu D, Cone NE & Bigio JD (April, 2005). *The effect of age on orthographic and phonological representations during word reading: An fMRI study*. Cognitive Neuroscience Society: New York, NY.
- Bitan T, **Booth JR**, Choy J, Burman DD & Gitelman DR (April, 2005). *Effective connectivity shows different convergence zones for rhyming and spelling tasks*. Cognitive Neuroscience Society: New York, NY.
- Cao F, Shu H, **Booth JR** & Shan B (April, 2005). *Phonological access of Chinese character components: Evidence from fMRI*. Cognitive Neuroscience Society: New York, NY.

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- Chou TL, **Booth JR**, Burman DD, Bitan T, Bigio JD, Lu D & Cone NE (October, 2004). *Neural correlates of high and low association semantic judgments in children*. Society for Neuroscience: San Diego, CA.
- Burman DD & **Booth JR** (October, 2004). Neuroanatomy of perceptual learning while reading words and music. Society for Neuroscience: San Diego, CA.
- Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (April, 2004). *Using neuroimaging to test developmental models of reading acquisition*. Conference on Human Development: Washington, DC.
- Feldman HM, MacWhinney B & **Booth JR** (July, 2002) *Neurolinguistic networks for verb generation in adults, children, and children with brain injury*. 23rd Annual Symposium on Research in Child Language Disorders and 9th Congress International Association for the Study of Child Language: Madison, WI.
- Burman DD & **Booth JR** (June, 2002). *Learning to read unfamiliar words improves word perception*. Society for the Scientific Studies of Reading: Chicago, IL.
- Stringer T, **Booth JR**, Burman DD, Harasaki Y & Van Santen FW (June, 2002). *The influence of orthographically or phonologically inconsistent word pairs on intra-modal and cross-modal lexical judgment tasks*. Society for the Scientific Studies of Reading: Chicago, IL.
- Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (May, 2002). *Modality independence of word comprehension*. International Society for Magnetic Resonance in Medicine: Honolulu, Hawai'i.
- Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (May, 2002). *Functional anatomy of intra- and cross-modal lexical tasks*. American Society for NeuroRadiology: Vancouver: Canada.
- Booth JR**, Burman DD, Meyer JR, Gitelman DR, Parrish TB & Mesulam MM (April, 2002). *The relation between brain activation and lexical performance depends on the modality of information processing routes*. Cognitive Neuroscience Society: San Francisco, CA.
- Booth JR**, Burman DD, Harasaki Y, Van Santen F, Gitelman DR, Parrish TB & Mesulam MM (December, 2000). *The development of specialized brain systems in reading and oral-language*. Evanston Northwestern Healthcare Research Institute: Evanston, IL.
- Booth JR**, Burman DD, Harasaki Y, Van Santen F, Gitelman DR, Parrish TB & Mesulam MM (November, 2000). *The development of automatic brain systems in reading and oral-language*. Psychonomic Society: New Orleans, LA.
- Booth JR**, Burman DD, Harasaki Y, Van Santen F, Gitelman DR, Parrish TB & Mesulam MM (June, 2000). *The development of orthographic, phonologic, semantic and syntactic representations in reading: Analytic versus automatic processing*. Organization for Human Brain Mapping: San Antonio, TX.
- Booth JR**, MacWhinney B, Thulborn KR, Sacco K, Voyvodic J & Feldman HM (June, 1999). *The development of functional neural networks in sentence comprehension, mental rotation, and verb generation*. Organization for Human Brain Mapping: Duesseldorf, Germany.
- Booth JR** (August, 1996). *Vocabulary and perceptual ability: Implications for developmental models of word recognition*. International Society for the Study of Behavioral Development: Quebec City, Canada.
- Epelboim J, **Booth JR**, Ashkenazy R, Taleghani A & Steinman RM (July, 1996). *Effects of irrelevant symbols in text on word recognition and saccadic programming during reading*. Cognitive Science Society: San Diego, CA.
- Epelboim J, **Booth JR**, Ashkenazy R, Taleghani A & Steinman RM (April, 1996). *A comparison of fillers and spaces in text: Evidence for the importance of word recognition*. Association for Research in Vision and Ophthalmology: Fort Lauderdale, FL.
- Booth JR**, Epelboim J & Steinman RM (July, 1995). *The relative importance of spaces and meaning in reading*. Cognitive Science Society: Pittsburgh, PA.

Booth JR, Bornstein HM & Tal J (August, 1991). *Time-sampling from naturalistic observation retains frequency ranking between subjects and cultures*. NICHD Intramural Research Program: Bethesda, MD.

EDITORIAL

- 11- Associate Editor, *Human Brain Mapping*
- 10- Editorial Board, *Annals of Dyslexia*
- 09- Editorial Board, *Neuroimage*
- 08- Editorial Board, *Frontiers in Human Neuroscience*
- 08- Editorial Board, *Journal of Learning Disabilities*

ADHOC JOURNAL REVIEWER

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Developmental Science
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Journal of Educational Psychology
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Journal of Learning Disabilities
Journal of Memory and Language
Journal of Psycholinguistic Research
Journal of Speech Language and Hearing Research
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ADHOC GRANT REVIEWER

Children's National Medical Center, General Clinical Research Center (GCRC) site visit team
International Dyslexia Association (IDA) Research Subcommittee

Institute for Educational Sciences
 Medical Research Council – United Kingdom
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 National Science Foundation: Perception, Action and Cognition
 National Institute of Health: Cognitive Neuroscience Study Section
 National Institute of Health: Cognition and Perception Study Section
 National Institute of Health: Child Psychopathology and Developmental Disabilities Study Section
 National Institute of Neurological Disorders and Stroke “A” Study Section
 National Institute of Neurological Disorders and Stroke: Cognition and Imaging Special Emphasis Panel
 National Institutes of Mental Health: Special Emphasis Panel on “Neuroinformatics”
 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Radcliffe Institute for Advanced Study
 Research Grant Council of Hong Kong

CONFERENCE REVIEWER COMMITTEES

03 Society for Research in Child Development: “Educational Issues: Intelligence, Reading, Writing, Mathematics” Panel

PROFESSIONAL MEMBERSHIPS

04- Member, *Society for Neuroscience*
 02- Member, *Cognitive Neuroscience Society*
 99- Member, *Organization for Human Brain Mapping*
 98- Member, *Society for the Scientific Studies of Reading*
 97- Member, *Psychonomic Society*
 97- Member, *Society for Research in Child Development*

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11- Steering Committee, *Center for Advanced Imaging*
 11- Academic Director, *Mind, Brain and Education in China*
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 10-11 Advisory Committee, *Interdepartmental Neuroscience Program*
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 09 Strategic Planning Committee, *Interdepartmental Neuroscience Program*
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 05-06 Advisory Committee, *Communication Sciences and Disorders*
 05 Advisory Committee for New Chair of Communication Sciences and Disorders, *School of Communication*
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 03-04 Program Review Committee, *School of Communication*
 02-04 Colloquium Committee, *Communication Sciences and Disorders*
 02-03 Faculty Search Committee, *Communication Sciences and Disorders*
 02 Vision Committee, *Communication Sciences and Disorders*
 01-02 School of Communication Honors Committee, *School of Communication*

00-01	Undergraduate Honors Committee, <i>Communication Sciences and Disorders</i>
00-01	Program Review Committee, Learning Disabilities, <i>Communication Sciences and Disorders</i>
99-00	Strategic Planning Committee, <i>Communication Sciences and Disorders</i>

CURRENT STUDENTS AND COLLABORATORS

Research Assistant Professors

Jerome Prado PhD from Institute of Cognitive Sciences, University of Lyon, France

Postdoctoral Research Associates

Chris McNorgan PhD from Department of Psychology, University of Western Ontario, Canada
 Jane Wang PhD from Applied Physics, University of Michigan, Ann Arbor
 Rubi Hammer PhD from Interdisciplinary Center on Neural Computation, Hebrew University, Israel

Visiting Scholars

Jiayan Lu Graduate Student, Institute of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, P. R. China

Doctoral Students

Christine Brennan TBA
 Nadia Cone Integration of orthographic and phonological information in developmental dyslexia
 Michael Tennekoon TBA

Undergraduate Honors Students

Neha Awati Multimodal integration and auditory modulation during reading

PAST STUDENTS AND COLLABORATORS

Postdoctoral Research Associates

Tali Bitan Assistant Professor, Communication Disorders Department, Haifa University, Israel
 Donald Bolger Assistant Professor, Department of Educational Psychology, University of Maryland – College Park
 Douglas Burman Project Manager MRI, NorthShore University HealthSystem
 Tai-Li Chou Associate Professor, Psychology Department, National Taiwan University, Taiwan
 Gillan Cooke Fellow, Beckman Institute, University of Illinois – Champagne Urbana
 Amy Desroches Assistant Professor, University of Winnipeg, Canada
 Joel Voss Fellow, Beckman Institute, University of Illinois – Champagne Urbana

Visiting Scholars

Guosheng Ding Associate Professor, Institute of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, P. R. China
 Zhang Lei Assistant Professor, Department of Radiology, 306 Hospital, Beijing, P. R. China
 Yanyan Li Graduate Student, Institute of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, P. R. China

Doctoral Students

- Fan Cao Assistant Professor, Nanyang Technological University - Singapore. *Dissertation: Neural basis of the development of orthographic and phonological processing in Chinese*
- Li Liu Assistant Professor, Beijing Normal University, P. R. China. *Dissertation: Cross-culture universality and peculiarity in dyslexia: Neuroimaging evidence from Chinese children*
- Evar Strid Instructor, Northeastern Illinois University, Chicago. *Dissertation: The effect of phonological structure on visual word access in bilinguals and monolinguals*
- Yuan Deng Assistant Professor, Institute of Psychology, Chinese Academy of Sciences Beijing, P. R. China. *Dissertation: Neural mechanisms of semantic and phonological learning of Chinese phonograms and transferring of radical knowledge in English speakers*

Undergraduate Honors Students

- Kristin Allison Masters Student, Speech-Language Pathology, University of Texas, Austin. *Thesis: Lateral dominance for music and word "rhyming" in novice and skilled musicians*
- Kathleen Barlo Manager, BrightStar Dyslexia Solution, San Diego. *Thesis: An investigation of letter-sound and sound-letter consistency effects across ability*
- Jimmy Cheon Research Assistant, Evanston Northwestern Healthcare, Evanston. *Thesis: Effective connectivity during a phonological judgment task in children*
- Daniel Choi Americorps Volunteer: Los Angeles. *Thesis: Arithmetic processing in children and adults*
- Sarah Corbridge Medical Student, Beer Sheva, Israel. *Thesis. Spatial and verbal working memory networks with immediate and delayed reward in typically developing children and adults*
- Nick Davenport Doctoral Student, Psychology, University of Minnesota, Minneapolis. *Thesis: A neurological basis for differences in attention deficit hyperactivity disorder subtypes*
- Jordan Fox Masters Student, Speech-Language Pathology, Northwestern University. *Thesis: Children learning to read an artificial script*
- Emily Gilley Research Assistant, Cognitive Neurology and Alzheimer's Center, Chicago. *Thesis: The neural substrate of selective attention and response inhibition deficits in children with attention deficit hyperactivity disorder*
- Jayla Gray Clinical Researcher, Anesthesiology Department, NorthShore University HealthSystem. *Thesis: Orthographic and phonological consistency effects in cortex differ in children with and without reading disability during spoken language processing*
- Patricia Huie Research Assistant, Children's Hospital Research Foundation, Cincinnati. *Thesis: The effect of intra- and cross-modal tasks on music chord position and tonality judgments*
- Kaitlin Kohlenbrener Research Analyst, Washington DC. *Thesis: Psychophysiological interaction between primary visual cortex and fusiform gyrus during visual rhyming in children*
- Rucha Mehta Medical Student, Rosalind Franklin University of Medicine and Science, Chicago. *Thesis: Neural processing of mathematical processing.*
- Caralynn Nowinski Dual MBA/Medical Student, University of Illinois, Chicago. *Thesis: Attention deficit disorder, electroencephalography, and intelligence/achievement: Is there a relationship?*
- Eugene Park HIV/AIDS Outreach Worker, Lawndale Christian Health Center, Chicago. *Thesis: Effective connectivity of orthographic and phonological consistency effects in children*

- Nicole Pedroarena Post-baccalaureate, University of California-San Diego. *Thesis: Learning to read reorganizes the oral language network only in alphabetic writing systems*
- Amit Vira Medical Student, Rosalind Franklin University of Medicine and Science, Chicago. *Thesis: Connectivity during phonological processing in the visual modality: Psychophysiological interaction of superior temporal gyrus and other regions in the language network*
- Cheryl Wolf Masters Student, Speech-Language Pathology, University of Wisconsin – Madison. *Thesis: Behavioral and neural development of semantics and syntax in third and sixth graders*
- Rishi Zaveri Project Coordinator, Department of General Medicine, Northwestern University Medical School. *Thesis: Orthographic and phonological cortical priming effects in children during spoken language processing*

REFERENCES

Available by request