LAURA L. CESTNICK

RESEARCH GOALS

To understand how sensory and cognitive systems develop and interact to create normal and abnormal reading processes. To develop and test remediation programs for dyslexic populations.

Key words: fMRI, MEG, dyslexia, visual attention, sensory systems, language, children, neurodevelopment, acquired, developmental

EDUCATION

| Ph.D., Psychology | Macquarie University | Australia | 1995-2000 |
|-------------------|--------------------------|----------------|-----------|
| | Mentors: M. Coltheart, J | . Jerger, A. (| Galaburda |
| M.Ed. | Brock University | Canada | 1993-1995 |
| | Mentor: James Wagner | | |
| B.A., Psychology | McMaster University | Canada | 1987-1991 |

AWARDS RECEIVED

| Postdoctoral Fellowship CIHR (MRC), held at MEG Lab and Linguistics Department, Massachusetts Institute of Technology, America | 2003-2004 |
|--|-----------|
| Postdoctoral Fellowship CIHR (MRC), held at MGH-NMR, Harvard Med. School | 2001-2003 |
| Visiting Researcher Fellowship Stanford University School of Medicine, America | 1999 |
| Overseas Postgraduate Research Scholarship DEET (Australia), held at Macquarie University, Australia | 1995-1998 |
| Travel Grants, Macquarie University, Australia | 1996-1998 |
| Henry Jackman Award, Lieutenant Governor of Ontario, Canad | la 1995 |
| G. Alan Research Grant Scottish Rite Charitable Foundation, Canada | 1993-1994 |
| Travel Grant (Yukon, Canada) Halton Board of Education, Canada | 1987 |

PROFESSIONAL MEMBERSHIPS

| Cognitive Neuroscience Society | 2001- |
|--|-----------|
| Society for Neuroscience | 2001- |
| Ontario Psychologists' Association, Canada | 1999- |
| NSW Psychologists' Registration Board, Australia | 1996-1998 |
| Phi Delta Kappa | 1995- |
| International Reading Association | 1994- |

RESEARCH EXPERIENCE

Postdoctoral Fellow Brain Imaging (fMRI, MEG) and Dyslexia

MGH- NMR, Harvard Medical School; Linquistics M.I.T.

Mentors: R.Poldrack, A.Galaburda, & A.Marantz 2001-2004

Postgraduate Dissertations Reading and Dyslexia

Doctorate at Macquarie University

Mentors: M. Coltheart, J. Jerger, A. Galaburda 1995-2000

Master's at Brock University

Mentor: James Wagner 1993-1995

Research Psychologist Reading Dyslexia, Language Disorders

Manly Hospital, Australia 1997-1998

Research Assistant

| Macquarie University, Australia | 1995-1998 |
|-----------------------------------|-----------|
| Brock University, Canada | 1993-1995 |
| McMaster Chedoke Hospital, Canada | 1993-1995 |
| Notre Dame College, America | 1992 |

Research Consultant

Niagara Region Literacy Board, Canada 1993-1994

CLINICAL EXPERIENCE (NEUROPSYCH./LANGUAGE/READING ASSESSMENTS)

Psychological Consultant

| Dr. A. Silver, Private Practice, Canada | 1999-2000 |
|---|-----------|
| Upper Grand &Wellington School Boards, Canada | 1999-2000 |

Psychological Associate

Peterborough Civic Hospital, Canada 1999-2000

CLINCAL EXPERIENCE CONTINUED

Psychologist

| Private Practice, Australia | 1996-1999 |
|-----------------------------|-----------|
| Manly Hospital, Australia | 1997-1998 |

Psychometrist

| Reading Clinic, Brock University, Canada | 1993-1995 |
|---|-----------|
| Chedoke McMaster Hospital, ABI Clinic, Canada | 1993-1995 |

REVIEWER FOR JOURNALS

| Brain and Language | 2002- |
|--------------------------|-------|
| Cognitive Brain Research | 2001- |

TEACHING EXPERIENCE

Lecturer

| Dyslexia and Reading: neuroscientific approaches | |
|--|------|
| Harvard Graduate School of Education, America | 2002 |

| Neuropsychology (winter term); Physiological Psychology (summer term) | |
|---|------|
| Trent University, Canada | 2000 |

Guest Speaker

| Dyslexia: 30 years of research, University of Toronto, Canada | 2000 |
|---|-----------|
| Cognitive Psychology, Macquarie University, Australia | 1997-1998 |
| Educating children toward societal awareness and development | |
| Phi Delta Kappa, University of Toronto Chapter, Canada | 1996 |

Seminar Leader

Psychology

Macquarie University, Australia 1996-1998

Educational Psychology (fall terms); Cognitive Psychology (winter terms); Clinical Assessment of Reading Disorders (all year)

Brock University, Canada 1993-1995

In Progress

Journal Articles

Cestnick L., Galaburda A. (2003). The neurological basis for developmental dyslexia: a review of the literature.

Cestnick, L. (2003). Neglect dyslexia: bridging the acquired and developmental literature.

Cestnick L., Poldrack R., Pare-Blagoev J. et al. (2003). The effects of the FastForward Reading Program on speech perception and reading: an fMRI and behavioural study.

Book

Dyslexia Research. L. Cestnick (Editor). Nova Science Publishers

Published

Journal Articles

Galaburda A., Cestnick L. (2003). Developmental Dyslexia (La Dislexia del Desarrollo). Rev Neurol (Revista de Neurologia). Feb.. 36(1): 3-9.

Facoetti A, Cestnick L, Lorusso M, Paganoni P, Umilta C, Mascetti G, and Zorzi M (2003) Aymmetric orienting of visual attention in phonological dyslexia. Neuropsychologia "in press"

Knight D., & Cestnick L. (2002). High and low IQ poor readers: remediation comparisons. Reading Research Quarterly. *In press.*

Cestnick L. (2001). Cross-modality temporal processing in phonological dyslexics. Brain and Cognition, 46(3), August, 319-325.

Cestnick L., & Jerger J. (2000). Auditory temporal processing and lexical/nonlexical reading in developmental dyslexics. J Am Acad Audiol 11, 501-513.

Cestnick L., & Coltheart M. (1999) The relationship between language processing and visual processing in developmental dyslexia. Cognition, July 30, 71(3), 231-255.

Cestnick L. (1998). Lyme disease in Australia. Australian and New Zealand Journal of Public Health, Editorial, 22(5), 524.

Cestnick L. (1998). Surface dyslexia and other interesting reading patterns: new challenges for theorists. Brain and Language, Special Edition, 37(1),

Cestnick L. (1998). Does surface dyslexia exist: the answer lies in statistical methods. Brain and Language, Special Edition, 37(1), 190-193.

Cestnick L. (1995). Motivation, autonomy and romanticism: educating our children toward societal awareness and development. Kappan. *Award winning paper for contributions to Ontario Education*

Theses:

Cestnick L. (1999). Vision, audition and dyslexia. Doctoral Dissertation, Macquarie University, Australia.

Cestnick L. (1995). Improving discourse reading comprehension of adults with brain injuries. Masters Dissertation, Brock University, Canada.

Published Abstracts:

Pare-Blagoev J., Cestnick L., Rose T., Clark J., Misra M., Katzir-Cohen, Hook P., Jones S., Galaburda A., Marantz A., & Poldrack R. (2002). The neural basis of phonological awareness in normal reading children examined using fMRI. Cognitive Neuroscience Soc. Conf., San Francisco.

Cestnick, L. (2002). Multimodal temporal processing in developmental phonological dyslexics. Cognitive Neuroscience Society Conference, San Francisco.

Cestnick, L., Coltheart, M. (1998). Auditory temporal processing and lexical/nonlexical reading in developmental dyslexics. Psychonomics. Texas.

Coltheart, M, Dufty, D., Cestnick, L., and Bates, T. (1998) The Dual Route Model, Learning to Read, & Developmental Dyslexia. Psychonomics. Texas.

Coltheart, M, Dufty, D., Cestnick, L., and Bates, T. (1998) The Dual Route Model, Learning to Read, & Developmental Dyslexia Experimental Psychology Conference, Hobart, Tasmania, Australia April 24-26.

Knight, D., Cestnick, L. (1997). High and low IQ poor readers: remediation comparisons. Sydney Postgraduate Conference. Sydney University, Australia.

Cestnick, L. (1997). Does developmental surface dyslexia exist: the answer lies in statistical methods. Tennet. Montreal.

Cestnick, L. (1997). Surface dyslexia and other interesting reading patterns. Tennet. Montreal.

Cestnick, L., Wagner J. (1996). Art of the chart: improving discourse reading comprehension of adults with brain injuries. International Congress of Psychology. Montreal

Cestnick, L. (1996). Diagnosing developmental dyslexics. Tennet. Montreal

Cestnick, L. (1996). Discourse reading comprehension in adults with brain injuries. Sydney Postgraduate Conference. Sydney University, Australia.

Cestnick, L., Wagner, J. (1995). Learning tools for adults with severe learning deficits. International Congress of Psychology (Education Chapter). Montreal

VOLUNTEER SERVICES IN CHILD EDUCATION

Assessment and Instruction of Reading (psychometric, language and reading assessments)
Arlington School Department, Special Education Division 2002-

Teaching Neuroscience and what it is like to be a neuroscientist, to children. Garfield School, via Citizen Schools in Boston, MA

Reading instruction with children in an after-school program.

Halton Board of Education, Ontario, Canada 1999-2000

2001

Consultant for a children's learning center (children with serious educational/developmental delay reside on the premise and receive full-on care and instruction 24 hours a day for 8 weeks) Dalwood School, Queenscliff Rehabilitation Center, Sydney, Australia 1997-1998

COMPUTER SKILLS RELEVANT TO RESEARCH

SPSS, Psyscope for fMRI/MEG, DMDX, MacroMedia, HTML code