

CURRICULUM VITAE
(2008-2009)

Lawrence Patrick Tuff

EDUCATION

B.Sc. (Hons), 1974, Biochemistry, McMaster University

Ph.D., 1982, Psychology, McMaster University

C. Psych., 1983, Ontario Board of Examiners in Psychology

ACADEMIC STATUS

Assistant Professor, Department of Psychiatry and Behavioural Neurosciences (1987-present)
McMaster University, Faculty of Health Sciences

Adjunct Professor, Department of Psychology, University of Windsor (1999 - present)

PROFESSIONAL AFFILIATIONS

College of Psychologists for the Province of Ontario (Registrant 1983-present #1671)
Ontario Psychological Association

EMPLOYMENT HISTORY

Jan 1987 - present Psychologist McMaster Children's Hospital

- Director of Training, Clinical Child Psychology and Clinical Neuropsychology Internship Program
- Psychologist on the Specialized Assessment and Treatment Service
- Provision of neuropsychological assessment and rehabilitation services to paediatric neurodevelopmental and acquired brain injury clients.
- Psychodiagnosis and treatment of preschool emotional-behavioural and developmental disorders
- Neuropsychological consultation to Child and Family Centre teams and school boards within catchment area.
- Supervision of psychometrists and interns on Child and Youth Mental Health Outpatient Clinic and Pediatric (multihandicapped, developmental and head injury) teams.

Sept 1986 - Jan 1987 Psychologist Chedoke Hospital

- Acting Director Infant-Parent program
- Supervision of senior therapists (4) providing direct service to parents of developmentally at-risk infants from 0-2 years of age

.Supervision of psychometrists (3) assessing infants and preschoolers with developmental delays and/or physical handicaps

- Neuropsychological assessment and cognitive/behavioural intervention with adult stroke patients

Sept 1985 - Sept 1986 Post-doctoral Intern Chedoke Hospital

- Intellectual, educational, behavioural, personality and vocational assessment of children and adolescents (0-18 yrs) in an outpatient mental health clinic
- Treatment of a range of child and family mental health problems utilizing a variety of treatment modalities (including cognitive, behavioural and family systems interventions)
- Neuropsychological assessment and cognitive retraining of children and adolescents with a variety of CNS disorders and impairments
- Consultation to multidisciplinary teams and community agencies servicing children with developmental, communication, behavioural and learning disorders

Sept 1983 - Sept 1985 Clinical Research Chedoke Hospital

- Neurocognitive assessment of 6-12 year old clinic-referred children with a wide range of emotional, behavioural, and psychiatric problems
- Neuropsychological assessment of brain damaged children and adults
- Neurocognitive assessment of schizotypal, autistic and withdrawn adolescents

June 1982 - Sept 1983 Psychologist Southwestern Reg Centre

- Applied behavioural analysis and treatment design services to neurologically impaired and developmentally delayed clients of all ages
- Small group parent/staff training in general and specific behaviour management principles
- Psychometric assessment of developmentally delayed children and adults
- Supervision of psychometrists and direct service SRC staff
- Ongoing research design and evaluation

Jan 1981 - June 1982 Psychometrist Southwestern Reg Centre

- Applied behavioural analysis and treatment design services to neurologically impaired and developmentally delayed clients of all ages
- Small group parent/staff training in general and specific behaviour management principles
- Psychometric assessment of neurologically impaired and developmentally delayed children and adults

Sept 1975 - Dec 1980 Teaching Assistant McMaster University

- Course preparation, lecturing, small group tutoring and marking in Social Psychology, Physiological Psychology and senior level Physiology Laboratory
- Experimental design, surgical preparation, computer assisted electrophysiological recording, neurobiochemical assay, data analysis and professional presentation of neurobehavioural research

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Pediatric Head Injury Group of Ontario (1992 to 1998)

Ontario Mental Health Foundation, MCSS Grant Peer Review Committee, 1989 to 1991.

Chedoke-McMaster Clinical Psychology Internship Program, Director, 1989 to present.

Stroke Education Committee, Stroke Rehabilitation Team, 1988 to 1991.

Education Coordinating Committee member 1991 to present.

Stegne Fellowship Committee (1997 to present)

Hamilton Early Learning Partners for Best Practices (HELP-BP) (formerly CCCBC) (1998 to present)

Child Studies Committee, Department of Psychiatry and Behavioural Neurosciences, Faculty of Health Sciences (2007 to present)

RESEARCH FUNDING

A Family Study of Pervasive Developmental Disorders in Childhood. Dr. P. Szatmari, Principal Investigator. Funded by Hospital for Sick Children Foundation (\$100,000), 1988-1990.

Assessing Heterogeneity in Families with Autism/Pervasive Developmental Disorder. Dr. P. Szatmari, Principal Investigator. Funded by the Medical Research Council of Canada (\$165,120), 1991 to 1993. Renewed 1993 to 1995.

Pediatric Ischemic Stroke Registry. Dr. G. DeVeber, Principal Investigator. Funded by Bloorview Children's Hospital Foundation (\$148,000) 1994-1998.

The Genetics of Autism/PDD; Family and Molecular Studies. Dr. P. Szatmari, Principal Investigator. Funded by the Medical Research Council of Canada (\$350,000), 1995 to 1998.

Canadian Pediatric Ischemic Stroke Registry and Outcome Project. Dr. G. DeVeber, Principal Investigator. Funded by Bloorview Children's Hospital Foundation (\$624,000), 1998 to 2001.

Hypothermia Pediatric Head Injury Trial. Dr. J. Hutchison et al Principal Investigator Funded by the Hospital for Sick Children Foundation (\$130,000), 1999-2004.

Pragmatic impairments in Pervasive Developmental Disorders; Social Sciences and Humanities Research Council of Canada (SSHRC): \$206,799, 3 years (2004-2007)
A Case-Control Study of Anxious School Refusal in Ontario Children & Youth. K. Bennett et al Principal Investigator. Ontario Mental Health Foundation \$160,000, 3 years (2005-2008)

Autism Spectrum Disorders: Pathways to Better Outcomes. Szatmari P et al Principal Investigator. Canadian Institutes of Health Research (CIHR), Healthy Developmental Trajectories (Special Competition) \$425,000/year, 5 years (2004-2009)

The genetic epidemiology of autism; family and molecular studies. Szatmari P et al Principal Investigator. (CIHR) (#MOP-62977), Operating grant, \$146,311/year, 5 years. (2004-2009)

TEACHING EXPERIENCE

Courses Taught

Clinical Behavioural Sciences (1989-present). Level III Course in Neuropsychological Assessment.

Primary Instructor.

Clinical Neuropsychology Seminar Series (1988-present). Co-instructor.

School of Occupational Therapy and Physiotherapy small group Tutor in Problem Based Learning (Block V - Neurology) (1991-present).

McMaster University Department of Psychology Undergraduate Thesis Supervisor and Practicum Supervisor (1990 to present).

University of Windsor Psychology Doctoral Thesis Advisor (1999-2000)

University of Guelph Psychology Doctoral Thesis Advisor (2007-2008)

Clinical Psychology Internship Seminar Series (1990-present)

Invited Workshops Presented

Behaviour Management Principles for ECE Staff. (Provided for staff of the Windsor Developmental Daycare, 1982)

Behaviour Management of Developmentally Handicapped Children- A Practical Approach for Parents. (Windsor and Sarnia AMR's, 1983)

Psychoeducational Implications of Neuropsychological Impairment. (Halton Board of Education, 1986)

Visual-Spatial and Nonverbal Development in Normal and Learning Disabled Children. (Brock University Teacher's College, 1987)

Neuropsychological Assessment in School-age Children - Applications for Educational Consultants. (Hamilton Board of Education, 1988)

Behaviour Management Principles for Speech and Language Professionals. (Chedoke-McMaster Hospitals, 1988)

Educational Implications of Acquired Brain Injury in Children and Adolescents. (Lincoln County Board of Education, 1989)

Intervention and Outcome in Stroke Victims - Cognitive and Emotional Functioning. (Hamilton Stroke Recovery Association, 1990)

Acquired Brain Injury in Children: Effects on Learning, Behaviour and Social-Emotional Functioning (The Council for Exceptional Children - Annual Conference, 1991)

Program Planning in Daycare Settings: System, Staff, Parent and Child Issues. (Central Daycare, 1992)

Issues in Child Neuropsychology - Assessment, Intervention and Outcome. (Credit Valley Hospital, 1993)

Pediatric Head Injury - Rehabilitation and Outcome, A Community Based Model of Intervention (Pediatric Grand Rounds, 1995)

Fetal Alcohol Syndrome - Neuropsychological Aspects (Child and Parent Research Institute, 1995)

The Clinical Assessment of Memory in Children (Halton Board of Education, 1998)

Emotional and Behavioural Sequelae of Pediatric ABI: Impact on Family and Social Interactions. Eighth Annual Conference on Neurobehavioural Rehabilitation in Acquired Brain Injury (Hamilton, May, 2001)

Management of Behavioural Difficulties in Language Delayed Preschoolers (Early Words Fall Conference, ASCY, September, 2001)

Temperament Management - Workshop for parents and caregivers (CCAS and HUB Support Facilitators, September, 2004)

Nonverbal Learning Disabilities (Pediatric Grand Rounds, 2005)

Special Kids, Special Parents Workshop (Community Education Services - Spring Session, 2003, Fall Session 2003, Winter Session 2004, Fall Session 2004, Winter Session 2005, Fall Session 2005, Spring Session 2006, Fall Session 2006, Spring 2007)

Managing Meltdowns and Freeze-ups in your Preschooler. Workshop (Community Education Services - Fall Session 2004, Winter Session 2005, Fall Session 2005, Spring Session 2006)

Nonverbal Learning Disabilities Workshop (Community Education Services - Fall Session 2004, Winter Session 2005, Fall Session 2005, Spring Session 2006)

Executive Functioning and the Adolescent Brain (Canada Wide Catholic Youth Ministry Conference for Adults, February 10, 2006)

Anxiety in Preschoolers (McMaster Children's Hospital Early Childhood Resource Specialists Annual Retreat, March 28, 2007)

Learning Disabilities – A Practical Overview (Community Education Services – McMaster Children's Hospital, April 4, 2007)

Anxiety in Preschoolers – Key Elements and Practical Approaches (Region of Waterloo Early Childhood Educator Annual Fall Focus Event, November 7, 2007)

PUBLICATIONS

Proceedings Of Meetings

Varmuza, S., Tuff, L. and Mishra, R. Effect of substantia nigra lesion on dopamine stimulated adenylate cyclase and dopamine receptor binding in caudate nucleus. Fed. Proc. 37, 936 (1978).

Mishra, R., Varmuza, S. and Tuff, L. Interaction of guanine nucleotides with dopamine and benzodiazepine receptors. Proc. Int. Soc. Neurosci. 7, 79 (1979).

Tuff, L., Racine, R. and Mishra R. Longlasting alterations in inhibitory processes in kindled rats. Proc. Int. Soc. Neurosci. 7, 187.3 (1981).

Tuff, L., Bowman, T. and Barrera, F. Behavioural management of Prader-Willi obesity. IASSMD 6 (1982).

Szatmari, P., Brunshaw, J., Tuff, L., Finlayson, M.A.J. and Siegel, L.S. Psychiatric Disorders and Profiles of Neurocognitive Impairment in Children. (Paper presented at International Neuropsychological Society Meeting, Denver Colorado, Feb. 1986)

Szatmari, P., Tuff, L. and Finlayson, M. Cognitive deficits and social impairments in Asperger's

syndrome. (Paper presented at fifteenth annual International Neuropsychological Society meeting, Washington, D.C., Feb. 18-21, 1987.)

Tuff, L. Systemic Behavioural Interventions in Paediatric Neuropsychology. (Paper presented at Canadian Psychological Association conference, Vancouver, B.C., June 1987)

Tuff, L., Colgan, M., Lockhart, J. and Dlin, R. Compliance, Who's Problem is it Anyway? (Paper presented at annual Association for Treatment Centres in Ontario conference, Thunder Bay, Ont., June 1988)

Tuff, L. Neurobehavioural approaches to intervention in child neuropsychology. (Paper presented at American Psychological Association annual meeting, Atlanta, Ga, August, 1988)

Paniak, C., Silver, K., Tuff, L. and Finlayson, M. Laterality classification rates from quantitative versus qualitative block design analyses. (Paper presented at the Canadian Psychological Association Meeting, June, 1989)

Silver, K., Paniak, C., Tuff, L. and Finlayson, M. Utility of WAIS-R summary and subtest scores in head injury assessment. (Paper presented at the Canadian Psychological Association Meeting, June, 1989)

Tuff, L. P. A Clinical Approach to Memory Rehabilitation. (Paper presented at the 13th Annual Scientific Meeting of the Inter-Urban Stroke Academic Association, May, 1990)

Moustacalis, E., Alfano, L., Tuff, L. and Finlayson, M.A.J. The MMPI and Cerebrovascular disease. (Paper Presented at the International Neuropsychological Society Twenty-First Annual Meeting, February, 1993)

Tuff, L., Patterson, C., Marcovich, S., deVeber, G., Curtis, R. and MacGregor, D. Neurological/Developmental outcome in children following pediatric ischemic stroke: Preliminary results of the Stroke Registry Collaborative Group. (Presented at the Great Lakes Regional Conference of the Society of Pediatric Psychology, April 1996)

Deveber, G., Curtis, R., MacGregor, D., Tuff, L., Friefeld, S., Patterson, C. and Lee, S. Neurodevelopmental outcome following pediatric arterial ischemic stroke and sinovenous thrombosis. (Presented at the Child Neurology Society 26th Annual Meeting, 1997)

Zwaigenbaum, L., Szatmari, P., MacLean, J.E., Bryson, S.E., Tuff, L., Mahoney, W., Bartolucci, G. Asperger syndrome, high functioning autism, and discrepancies between verbal and non-verbal reasoning. (Presented at the 15th Annual Scientific meeting of the Society for Developmental and Behavioural Pediatrics, September, 1997)

Zwaigenbaum, L., Szatmari, P., Jones, M.B., Bryson, S.E., MacLean, J.E., Mahoney, W., Bartolucci, G., Tuff, L., Tsafnat, T. Decreased obstetric optimality in autism is a function of genetic liability to the broader autism phenotype. (Presented at the 16th Annual meeting of the Society for Developmental and Behavioural Pediatrics, September 1999)

Ally SL, Krygsman A, Vaillancourt T, Clinton J, Tuff L, and H.E.L.P. Does impulsivity moderate the relation between indirect aggression and peer rejection in early childhood? Poster Presentation, McMaster University Faculty of Health Sciences, Department of Psychiatry Annual Research Day (April 13, 2005).

Servos SE, Ally SL, Vaillancourt T, Tuff L, Clinton J, and H.E.L.P. Executive functioning deficits, language delays and their links to ADHD: results from a community based sample of toddlers. Poster Presentation, McMaster University Faculty of Health Sciences, Department of Psychiatry Annual Research Day (April 13, 2005).

Hamilton Early Learning Partners for Best Practices (HELP-BP) in association with Affiliated Services for

Children and Youth (ASCY). For Goodness Sake. An Applied Approach to Behavioural Intervention for Young Children. Interactive instructional CD (2005).

Vaillancourt T, McDougall PA, Tuff L, Clinton JM. SRCD 2007 Biennial Meeting Paper Symposium: Popularity-Aggression Linkages from Early Childhood to Early Adolescence. Liked and Disliked Preschoolers Who Bully Others: Links to Mental Health, Executive Functioning and Verbal IQ (2007).

Journal Publications

Racine, R., Tuff, L. and Zaide, J. Kindling, unit discharge patterns and neural plasticity. *Can. J. Neural. Sci.* 2 (4), 395-406 (1975).

Mishra, R., Wong, Y., Varmuza, S. and Tuff L. Chemical lesion and drug induced supersensitivity and subsensitivity of caudate dopamine receptors. *Life Sci.* 23 (5), 443-446 (1978).

Tuff, L., Racine, R. and Adamec, R. The effects of kindling on GABA-mediated inhibition in the dentate gyrus of the rat: I-Paired pulse depression. *Brain Res.* 277, 79-90 (1983).

Tuff, L., Racine, R. and Mishra, R. The effects of kindling on GABA-mediated inhibition in the dentate gyrus of the rat: II-Receptor binding. *Brain Res.* 277, 92-98 (1983).

Szatmari, P., Tuff, L., and Finlayson, M.A.J. Asperger's Syndrome and Autism: Neurocognitive aspects. *Journal of the American Academy of Child and Adolescent Psychiatry.* Vol. 29, 1990.

Szatmari, P., Offord, D., Finlayson, A., Seigel, L. and Tuff, L. Clinical Significance of Neurocognitive Impairment in Children with Psychiatric Disorders. *Journal of Child Psychology and Psychiatry* (1990).

Paniak, C.E., Silver, K., Finlayson, M.A.J. and Tuff, L.P. How Useful is the WAIS-R in Closed Head Injury Assessment? *Journal of Clinical Psychology*, Vol. 48, No. 2 (March, 1992).

Szatmari, P., Jones, M.B., Tuff, L., Bartolucci, G., Fisman, S., Mahoney, W. (1993) Lack of cognitive impairment in first degree relatives of children with Pervasive Developmental Disorders. *Journal of the American Academy of Child and Adolescent Psychiatry*, 32:6, 1264-1273 (1993).

Szatmari, P., Jones, M.B., Fisman, S., Tuff, L., Bartolucci, G., Mahoney, W., and Bryson, S.E. Parents and Collateral Relatives of Children with Pervasive Developmental Disorders; A Family History Study. *American Journal of Genetics*, Vol. 60, 282-289 (1995).

Szatmari, P., Jones, M.B., Holden, J., Bryson, S.E., Mahoney, W.J., Tuff, L., MacLean, J.E., White, B., Bartolucci, G., Schultz, C., Robinson, P., and Hoult, L. High Phenotypic Correlations Among Siblings with Autism and Pervasive Developmental Disorders. *Neuropsychiatric Genetics* Vol. 67, 354-360 (1996)

MacLean, J.E., Szatmari, P., Jones, M.B., Bryson, S.E., Mahoney, W., Bartolucci, G. and Tuff, L. Familial factors influence the severity of pervasive developmental disorders; evidence for possible genetic heterogeneity. *Journal of Academy of Child and Adolescent Psychiatry*, 38(6):746-753, 1999.

Szatmari P, MacLean JE, Jones MB, Bryson SE, Zwaigenbaum L, Bartolucci G, Mahoney WJ, Tuff L. The Familial aggregation of the lesser variant in biological and non-biological relatives of PDD probands: a family history study. *J Child Psychol Psychiatry* Jul;41 (5):579-86 (2000)

Zwaigenbaum L; Szatmari P; Jones MB; Bryson SE; MacLean JE; Mahoney WJ; Bartolucci G; Tuff L. Pregnancy and birth complications in autism and liability to the broader autism phenotype. *J Am Acad Child Adolesc Psychiatry* May;41 (5):572-9 (2002)

Hetherington, R; Tuff, L; Anderson, P; Miles, B; deVeber, G; Short-term intellectual outcome after arterial

ischemic stroke and sinovenous thrombosis in childhood and infancy. *J. Child Neurology*; 20(7):553-559 (2005)

Szatmari P, Georgiades S, Bryson SE, Zwaigenbaum L, Roberts W, Mahoney WJ, Goldberg J, Tuff L. Investigating the structure of the Restricted, Repetitive Behaviours and Interests Domain of Autism. *Journal of Child Psychology and Psychiatry*: 47:6: 582-590 (2006).

Hutchison J. et al. Hypothermia Pediatric Head Injury Trial (HyP-HIT): The value of a pre-trial clinical evaluation phase. *Developmental Neuroscience*;28:291 -301 (2006)