

DATE: February 3, 2010
Curriculum Vita

NAME: Welsh, Marilyn Claire

POSITION: Professor (tenured)
Department of Psychology
College of Arts and Sciences
University of Northern Colorado
Greeley, CO 80639

HOME ADDRESS: 1059 Washington St., Denver CO 80203

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EDUCATION:

<u>Year(s)</u>	<u>Degree</u>	<u>Institution</u>	<u>Area of Study</u>
1983	Ph.D.	U.C.L.A.	Developmental Psychology
1979	M.A.	U.C.L.A.	Developmental Psychology
1977	B.A.	U.C.L.A.	Psychology (honors, magna cum laude)

WORK EXPERIENCE:

Professional
Academic:

<u>Year(s)</u>	<u>Organization</u>	<u>Position</u>	<u>Responsibilities</u>
1999-	U.N.C.	Professor	teach., res., serv.
1994-	U.N.C.	Assoc. Professor	teach, res., serv.
1992-	U.N.C.	Assist. Professor	teaching, research, service
1990-2	U. of Denver	Research Associate	research

<u>Year(s)</u>	<u>Organization</u>	<u>Position</u>	<u>Responsibilities</u>
1990-2	U. of Colorado at Denver	Adjunct Asst. Prof.	teaching
1990-2	Metropolitan State College	Adjunct Asst. Prof.	teaching
1987-90	Fordham U.	Asst. Professor	teaching, research, service
1984-87	U. of Colorado School of Med.	Posdoc. Fellow	research
1983-84	Calif. State Polytechnic U.	Lecturer	teaching, service
1978-83	U.C.L.A.	Research Assistant	testing, data analysis
1979-83	U.C.L.A.	Teaching lectures	reviews, tests, lectures

Professional
Non-Academic

<u>Year(s)</u>	<u>Organization</u>	<u>Position</u>	<u>Responsibilities</u>
1989-90	NYC Department of Personnel	Consultant	rater on police promotion exam
1984	ABT Assoc.	Consultant	writing position papers
1982	U.C.L.A.	Scientific Writer	research for grant preparation
1980-81	U.C.L.A.	Student Affairs Officer	research on student attrition

AREA OF SPECIALIZATION: Developmental Neuropsychology,
Developmental Disabilities, Cognitive Development.

RESEARCH INTERESTS: Typical and atypical development of the
cognitive functions attributed to the frontal
cortex, and development of cognitive measures to
assess these functions.

JURIED PUBLICATIONS:

Lawry, J.A., Welsh, M.C., & Jeffrey, W.E. (1983). Cognitive tempo and complex problem solving. *Child Development*, 54, 912-20.

Welsh, M.C. (1987). Verbal mediation underlying inductive reasoning: Cognitive tempo differences. *Cognitive Development*, 2, 37-57.

Pennington, B.F., Johnson, C., & Welsh, M.C. (1987). Unexpected reading precocity in a normal preschooler. *Brain and Language*, 30, 165-180.

Welsh, M.C., Pennington, B.F., & Rogers, S. (1987). Word recognition and comprehension skills in hyperlexic children. *Brain and Language*, 32, 76-96.

Welsh, M.C. & Pennington, B.F. (1988). Assessing frontal lobe functioning in children: Views from developmental psychology. *Developmental Neuropsychology*, 4, 199-230.

Welsh, M.C., Pennington, B.F., Ozonoff, S., Rouse, B., & McCabe, E.R.B. (1990). Neuropsychology of Early-treated Phenylketonuria: Specific Executive Function Deficits. *Child Development*, 61, 1697-1713.

Welsh, M.C. (1991) Rule-guided behavior and self-monitoring on the Tower of Hanoi disk-transfer task. *Cognitive Development*, 6, 59-76.

Welsh, M.C., Pennington, B.F., & Groisser, D. (1991). A normative-developmental study of executive function: A window on prefrontal function in children. *Developmental Neuropsychology*, 7, 131-149.

Cuneo, K.M. & Welsh, M.C. (1992). Perseveration in young children: Developmental and neuropsychological perspectives. *Child Study Journal*, 22, 73-92.

Pennington, B.F., Groisser, D., & Welsh, M.C. (1993). Contrasting neuropsychological deficits in Attention Deficit Hyperactivity Disorder versus Reading Disability. *Developmental Psychology*, 29, 511-523.

Welsh, M.C., Cicerello, A., Cuneo, K., & Brennan, M. (1995).

Error and temporal patterns on the Tower of Hanoi disk-transfer task: Cognitive mechanisms and individual differences. *Journal of General Psychology*, 122, 69-81.

Welsh, M.C. (1996). A prefrontal dysfunction model of early-treated phenylketonuria. *European Journal of Pediatrics (Special Section)*, 155, 87-89.

Humes, G.E., Welsh, M.C., Retzlaff, P., & Cookson, N. (1997). Towers of Hanoi and London: Reliability and validity of two executive tasks. *Assessment*, 4, 249-257.

Brennan, M., Welsh, M.C., & Fisher, C.B. (1997). Aging and executive function skills: An examination of a community-dwelling older adult population. *Perceptual and Motor Skills*, 84, 1187-1197.

Schnirman, G., Welsh, M.C., & Retzlaff, P. (1998). Development of the Tower of London-Revised. *Assessment*, 5, 355-360.

Welsh, M.C., Satterlee-Cartmell, T., & Stine, M. (1999). Towers of Hanoi and London: Contribution of working memory and inhibition to performance. *Brain and Cognition*, 41, 231-242.

Welsh, M.C., Revilla, V., Strongin, D., & Kepler, M. (2000). Towers of Hanoi and London: Is the nonshared variance due to differences in task administration? *Perceptual and Motor Skills*, 562-572.

Welsh, M.C. & Huizinga, M. (2001). Development and preliminary validation of the Tower of Hanoi-Revised. *Assessment*, 8, 167-176.

Emick, J. & Welsh, M.C. (2005). Association between formal operational thought and executive functions. *Learning and Individual Differences*, 15, 177-188.

Welsh, M.C. & Huizinga, M.C. (2005). Tower of Hanoi disk-transfer task: influences of strategy knowledge and learning on performance. *Learning and Individual Differences*, 15, 283-298.

Zook, N., Welsh, M.C., Ewing, V. (2006). Performance of healthy, older adults on the Tower of London-Revised: Associations with verbal and nonverbal abilities. *Aging, Neuropsychology, and Cognition* 13, 1-19.

Mutter, B., Alcorn, M., & Welsh, M.C. (2006). Theory of mind

and executive function: Working memory capacity and inhibitory control as predictors of false-belief task. *Perceptual and Motor Skills*, 102, 819-835.

De Roche, K., & Welsh, M.C. (2008). Twenty-Five Years of Research on Neurocognitive Outcomes in Early-treated Phenylketonuria: Intelligence and Executive Function. *Developmental Neuropsychology*, 33, 474-504.

Ketelson, K., & Welsh, M.C. (in press). Working Memory and Mental Arithmetic: A Case for Dual Central Executive Resources. *Brain and Cognition*.

Adams, C., Spindler, C., Holland, J., and Welsh, M.C. (in press). Differentiating Tower of Hanoi performance: Interactive effects of psychopathic tendencies, impulsive response styles, and modality. *Applied Neuropsychology*.

Schmitt-Wilson, S., & Welsh, M.C. (under review). Executive function, identity and career decision making in female college students. Manuscript submitted to *Journal of Career Development*.

Germano, K., Zook, N., Needham, W., & Welsh, M. (under review). Are all Towers the same? A comparison of the Tower of London-Revised and the Ward and Allport Tower Task. Manuscript submitted to *Applied Neuropsychology*.

INVITED CHAPTERS:

Welsh, M.C. (1993). Hyperlexia and precocious reading. In G. Blanken, J. Dittmann, H. Grimm, J. Marshall, & C. Wallesch (Eds.), *Linguistic disorders and pathologies: An international handbook*. Berlin: Walter De Gruyter.

Welsh, M.C. (1994). Executive function and the assessment of attention deficits. In N. Jordan & J. Goldsmith-Phillips (Eds.), *New directions in the assessment and treatment of learning disabilities*. New York: Allyn and Bacon

Pennington, B.F. & Welsh, M.C. (1995). Neuropsychology and developmental psychopathology. In D. Cicchetti & D. Cohen (Eds.), *Manual of developmental psychopathology*. New York: John Wiley.

Welsh, M.C. & Pennington, B.F. (2000). Phenylketonuria. In K.O. Yeates, M.D. Ris, H.G. Taylor (Eds.), *Pediatric Neuropsychology: Research, theory, and practice*. New York: Guilford.

Welsh, M.C. (2001). The prefrontal cortex and the development of executive functions. In A. Kalverboer and A. Gramsbergen (Eds.), *Handbook of brain and behaviour development*. The Netherlands: Kluwer.

Welsh, M.C. (2002). Developmental and clinical variations in executive functions. In D. Molfese & V. Molfese (Eds.), *Developmental variations in language and learning*. Hillsdale, NJ: Erlbaum.

Welsh, M.C., Friedman, S.L., & Spieker, S.J. (2006). Executive Functions in Developing Children: Current Conceptualizations and Questions for the Future. In D. Phillips & K. McCartney (Eds.), *Handbook of Early Childhood Development*. London: Blackwell.

Gorman Barry, P., & Welsh, M.C. (2007). The BrainWise Curriculum: Neurocognitive Development Intervention Program. In D. Romer & E. Walker (Eds.), *Adolescent Psychopathology and the Developing Brain: Integrating brain and prevention science*. New York: Oxford University Press.

Welsh, M.C., De Roche, K. & Gilliam, D. (2008). Neurocognitive Models of Early-treated Phenylketonuria: Insights from Meta-Analysis and New Molecular Genetic Findings. To appear in C. Nelson & M. Luciana (Eds.), *Handbook of Developmental Cognitive Neuroscience*. Boston: MIT Press.

PROFESSIONAL PRESENTATIONS:

Welsh, M.C., Jeffrey, W.E., & Zelniker, T. (1980, April). Perceptual strategies in cognitive tempo. Paper presented at the annual meeting of WPA, Honolulu, HI.

Welsh, M.C. (1981, April). Perceptual errors underlying impulsive and reflective performance on the Matching Familiar Figures Test. Paper presented at the annual meeting of WPA, Los Angeles, CA.

Rader, N., Leaper, C., & Welsh, M.C. (1981, November). Verbally-guided search in reflective children. Paper presented at the annual meeting of the Psychonomic Society, Philadelphia, PA.

Welsh, M.C., Zientz, N., & Jeffrey, W.E. (1983, August). Verbal and attentional strategies contributing to children's figural matrix performance. Paper presented at the annual meeting of APA, Anaheim, CA.

Welsh, M.C. & Jeffrey, W.E. (1984, August). Verbal mediation, cognitive tempo, and figural matrix performance. Paper presented at the annual meeting of APA, Toronto, Canada.

Welsh, M.C. (1985, April). Cognitive variables contributing to inductive reasoning. Paper presented at the biennial meeting of SRCDC, Toronto, Canada.

Welsh, M.C., Pennington, B.F., & Rogers, S. (1986, May). Word recognition and comprehension skills in five hyperlexic children. Paper presented at the biennial retreat of the DPRG, Estes Park, CO.

Welsh, M.C., Pennington, B.F., & McCabe, E.R. (1987, February). Performance of preschool PKU children on prefrontal measures. Paper presented at the annual meeting of INS, Washington, DC.

Welsh, M.C., Groisser, D., & Pennington, B.F. (1988, February). A normative-developmental study of measures hypothesized to tap prefrontal functioning. Paper presented at the annual meeting of INS, New Orleans, LA.

Welsh, M.C. & Cuneo, K.M. (1989, February). Perseveration in young children: A neuropsychological perspective. Paper presented at the annual meeting of INS, Vancouver, Canada.

Welsh, M.C., Wall, B., & Towle, P.O. (1989, April). Executive function in children with attention deficit: Implications for prefrontal function. Paper presented at the biennial meeting of SSRCD, Kansas City, MO.

Brennan, M., Welsh, M.C., & Fisher, C.B. (1989, November). Future-oriented planning measured by the Tower of Hanoi extended to an older population. Paper presented at the annual meeting of the GSA, Minneapolis, MN.

Cuneo, K.M. & Welsh, M.C. (1990, February). A comparison of early-treated PKU preschoolers and their unaffected peers on measures of perseveration. Paper presented at the annual meeting of INS, Orlando, FL.

Welsh, M.C. & Wagner, J.M. (1990, February). The neuropsychological characteristics of children "not ready" for first grade and their first grade peers. Paper presented at the annual meeting of INS, Orlando, FL.

Grund, El, Busch, N.A., & Welsh, M.C. (1990, March). Personality, cognition, and identity development in young women with early-treated PKU. Paper presented at the biennial meeting of the SRA, Atlanta, GA.

Welsh, M.C. & Towle, P.O. (1991, February). Executive functions and associations with perinatal variables in preterm children. Paper presented at the annual meeting of INS, San Antonio, TX.

Wagner, J.M. & Welsh, M.C. (1991, February). The neuropsychological characteristics of children "not ready" for first grade: A follow-up study. Paper presented at the annual meeting of INS, San Antonio, TX.

Welsh, M.C. & Pennington, B.F. (1992, February). A critical evaluation of the current and potential applications of disk-transfer tasks to clinical and experimental neuropsychology. Paper presented at the annual meeting of INS, San Diego, CA.

Welsh, M.C. (1993). An executive function model of learning disabilities. Invited address to the Learning Disabilities Association of Canada; Toronto, Canada.

Welsh, M.C. (1994, November). A prefrontal dysfunction model of early-treated phenylketonuria. Invited address to the workshop, Phenylketonuria: International Survey of Management over 40 years; Fulda, Germany.

Welsh, M.C., Humes, G., & Cookson, E.N. (1995, February). Disk-transfer task intercorrelations: The Tower of Hanoi and the Tower of London. Paper presented at the annual meeting of INS, Seattle, WA.

Humes, G., Welsh, M.C., & Cookson, E.N. (1995, February). The contribution of working memory to performance on disk-transfer tasks. Paper presented at the annual meeting of INS, Seattle, WA.

Schnirman, G., Welsh, M., Retzlaff, P., Cookson, N., Tolbert, S., & Palmer, M. (1996, February). Development of the Tower of London-Revised. Paper presented at the annual meeting of INS, Chicago, IL.

Wilkinson, N., Morris, G., Retzlaff, P., & Welsh, M. (1996, August). Event-Related Potentials in the CVLT. Paper presented at the annual meeting of APA, Toronto, Canada.

Wall, B., Towle, P., Tryon, W., & Welsh, M. (1996, August). Executive Function and Behavior Problems in Low Birthweight Children. Paper presented at the annual meeting of APA, Toronto, Canada.

Welsh, M.C., Petterson, N., Cartmell, T., & Stine, M. (1997, February). What Cognitive Processes are Tapped by the Towers of Hanoi and London? Paper presented at the annual meeting of INS, Orlando, FL.

Welsh, M.C., Revilla, V., Strongin, D., & Kepler, M. (1998, February). Validity and reliability of a new one-trial version of the Tower of Hanoi. Paper presented at the annual meeting of INS, Honolulu, HI.

Welsh, M.C., Morris, G., Revilla, V., Wagner, A., Ross, S., McCullen, A., & Darst, L. (1999, February). Development of a computerized, recognition-format Tower of London suitable for ERP research. Paper presented at the annual meeting of INS, Boston, MA.

Kepler, M., Welsh, M.C., Retzlaff, P., Dickey, K., & Rigg, A. (1999, February). Developmental and individual differences in executive functions in school-aged children. Paper presented at the annual meeting of INS, Boston, MA.

Welsh, M.C., Huizinga, M., McGarraugh, M., Devine, S., & Beaty, K. (2000, February). Reliability and validity of the Tower of Hanoi-Revised. Paper presented at the annual meeting of INS, Denver, CO.

McCullen, A., Welsh, M.C., Morreale, M., & Rigg, A. (2000, February). The prefrontal functions of working memory and inhibition: A test of the limited capacity model. Paper presented at the annual meeting of INS, Denver, CO.

Retzlaff, P., Vanderploeg, R., Welsh, M.C., McGarraugh, M., &

Devine, S. (2000, May). The PC3: A brief test of cognitive functioning. Presented at the Aerospace Medical Association, Houston, TX.

Welsh, M.C., Kelley, G.A., & Tran, Z.V. (2000, October). A meta-analysis of treatment outcome research in early-treated phenylketonuria. Presented at the Consensus Development Conference on Phenylketonuria, NIH.

McGarraugh, M., Welsh, M.C., Retzlaff, P., Ehmke, J., & Strom, R. (2001, February). Associations among executive function, speed of processing, and intelligence. Paper presented at the annual meeting of INS, Chicago, IL.

Devine, S., Welsh, M.C., Retzlaff, P., Yoh, M., Adams, C. (2001, February). Explicit and implicit cognitive processes underlying Tower of Hanoi performance. Paper presented at the annual meeting of INS, Chicago, IL.

Welsh, M.C., Huzinga, M., Granrud, M., Cooney, J., Adams, C. & van der Molen, M. (2002, February). A structural equation model of executive function in normal young adults. Paper presented at the annual meeting of INS, Toronto, Ontario, Canada.

Bagley, A., Welsh, M.C., Retzlaff, P., Wolf, C., Bryan, E. (2002, February). Towers of Hanoi and London: Contributions of procedural learning and inhibition. Paper presented at the annual meeting of INS, Toronto, Ontario, Canada.

Lock, C., Welsh, M.C., Adams, C., & Kurtz, A. (2002, February). Tower of Hanoi: influence of strategy instruction and extended practice on performance and knowledge. Paper presented at the annual meeting of INS, Toronto, Ontario, Canada.

C. O'Reilly-Wolf, M. Welsh, H. McNeil, J. Emick, & S. Gonzalez (February, 2003). Individual Differences in Self-Efficacy and Tower Task Performance. Poster presentation at the annual meeting of the International Neuropsychological Society, Honolulu, Hawaii.

C. Adams, M. Welsh, E. Warneke, K. Norton, & D. Orr. (February, 2003). Validity Study of a Computerized Version of the Tower of Hanoi-Revised. Poster presentation at the annual meeting of the International Neuropsychological Society, Honolulu,

Hawaii.

N. Zook, M. Welsh, P. Retzlaff, E. Alm, V. Ewing & H. Wakkinen. (February, 2003). Tower of London-Revised and WAIS-III Performance in Older Adulthood. Poster presentation at the annual meeting of the International Neuropsychological Society, Honolulu, Hawaii.

M. Welsh (April, 2003). Nature, Nurture and the Development of Executive Functions: Frontal lobes, Families, and "Feelings." Invited discussant for symposium entitled "Development of planning in children" presented at the biennial meeting of the Society for Research in Child Development, Tampa, Florida.

S. Sabella, M. Alcorn, & M. Welsh; (2003). Executive function in preschool children: Interrelationships among inhibition, attention, and working memory. Society for Research in Child Development.

C. Adams, M. Welsh, A. Johnson, C. Long, & M. Fredricks (February, 2004). Contribution of Delay of Gratification to Tower of Hanoi Performance. Poster presentation at the annual meeting of the International Neuropsychological Society, Baltimore, MD.

J. Emick, M. Welsh, Z. Howell, & S. Chandran (2004). Relation between Formal Operational Thought and Executive Functions. Poster presentation at the annual meeting of the International Neuropsychological Society, Baltimore, MD.

M. Welsh, C. Marteja, S. Price, A. Oblander, & T. Siebert (2004). Interaction of Working Memory and Inhibition in a Limited Capacity System. Poster presentation at the annual meeting of the International Neuropsychological Society, Baltimore, MD.

K. Norton, M. Alcorn, M. Welsh, & C. Granrud (2004). Children's understanding of modality-specific knowledge may be related to their social-cognitive problem solving. American Psychological Society, Chicago, IL.

M. Welsh, D. Davis, L. Comer, B. Aki, & D. Vigil (2005). Dietary Restraint and Working Memory Performance in Male and Female College Students. Poster presentation at the annual meeting of the International Neuropsychological Society, Baltimore, MD.

M. Welsh, Z. Howell, S. Tlustos, & J. Emick (2005). Formal

Operational Thought and Executive Functions in College Freshmen and Seniors. Poster presentation at the annual meeting of the International Neuropsychological Society, Baltimore, MD.

P.Gorman Barry & M.Welsh (2005). The BrainWise® Curriculum: Neurocognitive Development Intervention Program. Presented at the Adolescent Psychopathology and the Developing Brain Conference, Annenberg School of Public Policy at the University of Pennsylvania, Philadelphia, PA.

M.Welsh, P.Gorman Barry, Sperekas, N. Zook, J. Holland, & K. Legget. (2006). Executive function in High-risk Children and Adolescents Before and After the BrainWise® Intervention Program. Poster presented at the annual meeting of the International Neuropsychological Society, Boston, MA.

K.DeRoche, M.Welsh, & E.Seever (2006). Meta-analysis of Executive Function and Intelligence Outcomes in Early-treated Phenylketonuria. Poster presented at the annual meeting of the International Neuropsychological Society, Boston, MA.

D.Vigil, M.Welsh, L.Comer, T.Hill, & E.Strong (2006). Working Memory Performance in College Women Scoring High and Low on Dietary Restraint. Poster presented at the annual meeting of the International Neuropsychological Society, Boston, MA.

K.Ketelsen, M.Welsh, B.Holter, & R.Hu (2006). Verbal and Nonverbal Central Executive Resources in a Mental Arithmetic Working Memory Task. Poster presented at the annual meeting of the International Neuropsychological Society, Boston, MA.

J.Chestnut, M.Welsh, S.Logan, & C.Van Romer (2007). Associations between Executive Functions and Self-reported Risk Taking Behavior in College Students. Poster presented at the annual meeting of the International Neuropsychological Society, Portland, OR.

C.Adams, M.Welsh, L.Phillips (2007). The Effect of Cognitive Load, Interference Type, and Timing on Working Memory Performance in a Dual-Task Paradigm. Poster presented at the annual meeting of the International Neuropsychological Society, Portland, OR.

J.Holland, M.Welsh, J.Dickenson, & L. Richards (2007). The Effect of Inhibition Manipulation on TOH-R Performance for both

the Computerized and Manual Versions. Poster presented at the annual meeting of the International Neuropsychological Society, Portland, OR.

M.Welsh, P. Gorman Barry, N.Sperekas, & J.Holland (2007). Executive Functions in Low-Income Hispanic 2nd Grade Children and their Parents. Poster presented at the annual meeting of the International Neuropsychological Society, Portland, OR.

M.Welsh, P. Gorman Barry, N. Sperekas, & J. Chestnut (2008). A Longitudinal Study of Executive Functions in Young, Low-Income, Hispanic Children. Poster presented at the annual meeting of the International Neuropsychological Society, Hawaii.

M. Welsh, P. Gorman Barry, & P. Klaczynski (2009). A Critical Thinking Skills Intervention for High-Risk Teenagers: Associations with Executive Functions. Poster presented at the annual meeting of the International Neuropsychological Society, Atlanta, GA.

M. Welsh, P. Gorman Barry, & P. Klaczynski (2009). Predictors of High School Attrition among High-Risk Teenagers: Executive Function and Risk Assessment. Poster presented at the annual meeting of the International Neuropsychological Society, Atlanta, GA.

M. Welsh, P. Gorman Barry, & P. Klaczynski (2009). An experimental examination of the effects of hypothetical base rates on adolescents' perceptions of risky behaviors. Poster presented at the annual meeting of the Society for Research on Child Development. Denver, CO.

GRANTS AND CONTRACTS:

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| 1985-87 | "Executive function skills in two clinical groups: early-treated PKU and attention deficit disorder" NIMH, NRSA; \$38,000. |
| 1986-88 | "Prefrontal lobe function in children with early-treated PKU" March of Dimes; \$50,000. |
| 1988-90 | "Developmental and dietary effects on specific cognitive skills in early-treated PKU" March of |

Dimes; \$44,000.

- 1988-90 "Psychosocial development in children born preterm" March of Dimes; \$44,000.
- 1999-01 "Structural equation model of executive function in young adults" National Science Foundation, POWRE proram; \$75,000
- 2000 "A meta-analysis of treatment outcome in early-treated phenylketonuria" National Institutes of Health, NICHD (commissioned study for the Consensus Development Conference on Phenylketonuria); \$45,000

SUBMITTED GRANTS:

- 2002 "Early treatment of PKU: A meta-analysis" National Institutes of Health; 3 years; \$950,000 (direct and indirect costs)*not funded*
- 2003 An investigation into the use of Universal Design for Instruction (UDI) principles to optimize the academic achievement & retention of at-risk post-secondary students with diverse learning styles. Grant proposal submitted to the Department of Education, Brian Johnson and Marilyn Welsh (co-PIs), 3 years, \$906,000. *Not funded*
- 2005 Applying Executive Function Principles in a School- and Family-Based Intervention: Improving Academic Achievement in Low-Income Children. Grant proposal submitted to the Department of Education, Marilyn Welsh (PI), 3 years \$564,000. *Not funded*
- 2005 Innovative Approach to Intervention with Birth Mothers of Alcohol-Exposed Infants. Submitted to the NIH, National Institute of Drug Abuse (NIDA), 3 year *subcontract (PI)* \$15,300. *Not funded*
- 2006 Improving Academic Achievement in Low-Income Children: Applying Executive Function Principles in a School- and Family-Based Intervention. Grant proposal submitted to the Department of Education, Marilyn Welsh (PI), 2 years; \$429,336 (total costs) *Not Funded*

- 2006 Improving Academic Achievement in Low-Income Children: Applying Executive Function Principles in a School- and Family-Based Intervention. Application submitted to University of Northern Colorado, SPARC, REDI Fellowship Program. 2 years; \$15,000. *Funded.*
- 2008 Improving Behavior and Academic Achievement in High-Risk Adolescents Using BrainWise. Application submitted to the Colorado Department of Health, Tony Grampas Youth Services Award, 3 years, \$30,000. *Not funded.*
- 2009 **Thinking, Banking, and Texting: Teaching At-Risk Teens to "Be BrainWise with Money".** Application submitted to UNC Provost Award Program, \$7,320. *Funded.*
- 2009 "BrainWise One-on-One: An Innovative, Replicable Model for Mentoring At-Risk Adolescents." Application submitted to the Department of Justice, Office of Juvenile Justice and Delinquency Prevention, \$490,000. *Not Funded.*
- 2009 "Peer Stigmatization: The Role of Theory-Biased Reasoning and Executive Function." Application submitted to the National Institutes of Health, AREA program, \$296,000. *Not Funded*
- 2009 "Improving Health Decisions in TANF clients: Nurse Visits, BrainWise, and Technology." SBIR grant proposal submitted by SatoriEdu to NIH/NINR, \$125,000. Subcontract to UNC, PI (Welsh), \$13,000.

PROFESSIONAL CONSULTATION:

<u>Year(s)</u>	<u>Organization</u>	<u>Role</u>
1984	ABT Associates	position paper author
1989-90	NYC Personnel	rater for exams

PROFESSIONAL ASSOCIATION PARTICIPATION:

<u>Membership</u>	<u>Year(s)</u>	<u>Organization</u>	<u>Location</u>
member	1978-88	APA, Division 7	D.C.
member	1978-90	Soc. for Res. in Child Dev.	Chicago
member	1984-	Inter. Neuro-psych. Society	Columbus, Ohio

UNIVERSITY SERVICE:
Department/School:

<u>Activity</u>	<u>Year(s)</u>	<u>Institution</u>	<u>Location</u>
member	1987-90	Fordham U. Develop. Area committee	Bronx, NY
co-advisor	1988-90	Fordham U. Psi Chi	Bronx, NY
member	1992-93	U.N.C. Undergrad committee	Greeley, CO
member	1993	U.N.C. Search & Screen comm.	Greeley, CO
co-chair	1994-95	U.N.C. Grad. admiss.	Greeley, CO
coordinator	1995-2001	U.N.C. Grad. Program	Greeley, CO
member	1995	U.N.C. Search & Screen comm.	Greeley, CO
member	1997-98	U.N.C. Search & Screen comm.	Greeley, CO
Member	2000-2001	U.N.C. Search & Screen comm.	Greeley, CO

Member Undergrad. Admissions	1989-90	Fordham U.	Bronx, NY
Chair	2003-2004	U.N.C. Dept Eval. Comm	Greeley, CO
Coordinator	2004-2006	U.N.C. Honors Program	Greeley, CO
Co-Chair	2007 (spring)	U.N.C. SEC subcommittee School of Psych Sciences	Greeley, CO
Co-Coordinator	2007 (spring)	U.N.C. Graduate Program Educational Psych School of Psych Sciences	Greeley, CO
Chair	2007 (fall)-	U.N.C. SEC subcommittee School of Psych Sciences	Greeley, CO
Coordinator	2007 (fall)-	U.N.C. Graduate Program Educational Psych School of Psych Sciences	Greeley, CO
Chair	2007 -	U.N.C. Graduate Committee School of Psych Sciences	Greeley, CO

College or University:

Member Social Sciences Advisory Comm	1994-	U.N.C.	Greeley, CO
Member Social Sciences	1995	U.N.C.	Greeley, CO.

Search & Screen

Participant Custer program	1994-96	U.N.C.	Greeley, CO.
Member Geography/ Soc.Sciences Search & Screen	1997	U.N.C.	Greeley, CO.
Member Faculty Grievance Committee	1999-2002	U.N.C.	Greeley, CO.
Vice Chair Undergraduate Council	2003-2004	U.N.C.	Greeley, CO.
Member Faculty Research And Publications Board	2004-2005	U.N.C.	Greeley, CO.
Chair Faculty Research And Publications Board	2006-2007	U.N.C.	Greeley, CO.

SERVICE TO THE DISCIPLINE

Editorial Board Member	1999-	<i>Developmental Neuropsychology</i> <i>LEA publishers</i>
Editorial Board Member	2008 -	<i>Applied Developmental Science</i> <i>Psychology Proess</i>
Reviewer	1990 -	Various journals In the discipline
Scientific Review Comm Member	2005	National Institute of Child Health and Human Development
Scientific Review Comm	2006	National Institute of Child Health and

GRADUATE STUDENT COMMITTEES:

Doctoral: At Fordham U., I served on approximately 25 dissertation committees as a reader or as a consultant in the span of three years. At UNC, I have served as a faculty representative on more than 10 dissertation/orals committees in school psychology, counseling psychology, statistics and research methods, and mathematics education.

Masters Theses Mentored:

<u>Date</u>	<u>Student</u>	<u>Thesis Title</u>
1988	Kathleen Cuneo	Perseveration in young children
1988	Mark Brennan	Planning in older adults
1989	Jeff Dyke	An analogue for the Stroop task
1989	Paul Rinaldi	Impulsivity in personality disorder
1989	Brenda Wall	Executive function in ADHD children
1993	George Humes	Working memory and disk-transfer task performance
1994	Geoffrey Schnirman	Development of the Tower of London-Revised
1994	Catherine Tullis	Effects of experiential learning on knowledge and attitudes re: children
1995	Donald Gookin	Group-administered CVLT
1997	Trey Cartmell	Tower tasks and primary mental abilities
1997	Shelley Kepler	Executive function in children

1999	Ann Marie McCullen	The interaction of working memory and inhibition processes
2000	Molly McGarraugh	Associations among intelligence, speed of processing, and executive function
2000	Sarah Devine	Explicit and implicit learning on the Tower of Hanoi
2001	Amy Bagley	Contributions of procedural learning and inhibition to tower task performance
2001	Candy Meckelburg	Effects of strategy training on TOH performance
2001	Kumiko Fujita	Effects of modality at encoding and retrieval on memory performance
2001-	Samuel Adams <i>in progress</i>	ERP P-300 indicators of TOL performance
2002	Nancy Zook	TOL performance in healthy older adults
2002	Caroline Wolf	Contribution of self-efficacy to executive function performance
2002	Todd Siebert	A test of the dissociation of verbal and nonverbal working memory systems
2003	Christy Adams	Models of inhibition and TOH-R performance
2003	Jessica Emick	Relation between Formal Operational Thought and Executive Functions
2003	Daniel Davis	Test of independent domain-specific central executive resources in working memory

2005	Kate DeRoche	Meta-analysis of neurocognitive outcomes in early-treated PKU
2006	Kirk Ketelson	Independence of verbal and nonverbal working memory resources in a limited capacity system
2006 Version	James Holland	Computerized vs Manual of the Tower of Hanoi- Revised: Inhibition and Strategy Knowledge
<u>Doctoral Committees (chair):</u>		
2007-08	Christy Adams	Doctoral Dissertation defended fall 2008
2008 -	James Holland	Development of Comprehensive Exam papers (successfully defended winter 2009)
2009 -	Sarah Wilson	