

BIOGRAPHICAL SKETCH

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NAME: Margaret Allison Cato Jackson, Ph.D., ABPP/cn

eRA COMMONS USER NAME (credential, e.g., agency login): ALLISONCATO

POSITION TITLE: Associate Chief, Neurology and Director, Neuropsychology Clinic, Nemours Children's Specialty Care, Jacksonville

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Wake Forest University Winston-Salem, NC	B.A.	05/1995	Psychology
James Madison University Harrisonburg, VA	M.A.	05/1997	Experimental Psychology
University of Florida Gainesville, FL	Ph.D.	08/2002	Clinical Neuropsychology
U of California, San Diego and VA San Diego	Internship	06/2002	Clinical Neuropsychology
VA San Diego Healthcare System San Diego, CA	Postdoctoral	11/2005	Clinical Neuropsychology

A. Personal Statement

As a board certified clinical neuropsychologist who has directed the Nemours Jacksonville pediatric neuropsychology clinic for the past 12 years, I have extensive clinical experience in assessment of cognition in youth from infancy through late adolescence. In conjunction with Tamara Hershey, I co-led the DirecNet Cognitive Core for the first 3 years of funding, and since 2014 I have served as the lead for cognitive testing within this consortium. I was lead author on the first two publications focusing on cognitive results in the ongoing longitudinal study and have developed expertise in the scientific background pertaining to cognitive development in youth with type 1 diabetes. I have additional training and expertise in functional neuroimaging. Since 2010 I have overseen fMRI image acquisition at Nemours as well. Given this dual background in neuropsychological testing and neuroimaging in type 1 diabetes, I am ideally suited to assist in the proposed study.

1. Cato, M. A., Murras, N., Ambrosino, J., Bondurant, A., Conrad, A L., Kollman, C., Cheng, P., Beck, R. W., Ruedy, K. J., Aye, T., Reiss, A. L., White, N. H., & Hershey, T. for the Diabetes Research in Children Network (DirecNet) (2014). Cognitive functioning in young children with type 1 diabetes. *Journal of the International Neuropsychological Society*, 20, 238-247. PMID: 24512675
2. Cato, M. A., Murras, N., Mazaika, P., Kollman, C., Cheng, P., Aye, T., Ambrosino, J., Beck, R. W., Ruedy, K. J., Reiss, A. L., Tansey, M., White, N. H., & Hershey, T. (2016). Longitudinal evaluation of cognitive functioning in young children with type 1 diabetes over 18-Months. *Journal of the International Neuropsychological Society*, 20, 1-10. PMID: 26786245

B. Positions and Honors**Positions and Employment**

2003-2005 Fellow, VISN 22 MIRECC Special Fellowship in Advanced Psychology, VA San Diego Healthcare System, San Diego, CA

2005- Program Director, Neuropsychology Clinic, Neurology Division, Nemours Children's Specialty Care, Jacksonville, FL

2007 - Assistant Professor of Psychology, College of Medicine, Rochester, MN

Other Experience

1998 HealthEmotions Research Institute. Fourth Annual Wisconsin Symposium on Emotion, "Affective Neuroscience".

1999 Medical College of Wisconsin, Section of Neuropsychology. fMRI Course. Milwaukee, Wisconsin, October

2003-2004 Neurovascular Coupling Journal Club, The University of California at San Diego and the Salk Institute Center for Functional Magnetic Resonance Imaging, San Diego, CA

2003-2005 MIRECC/REAP Neuroimaging Seminar, UCSD/VASDHS Laboratory of Cognitive Imaging, San Diego, CA

2003-2005 Neuroimaging Current Contents Journal Club, UCSD/VASDHS Laboratory of Cognitive Imaging, San Diego, CA

2004 Graduate Summer School: Mathematics in Brain Imaging, Institute for Pure and Applied Mathematics, Los Angeles, CA, July

Professional Memberships

American Psychological Association; International Neuropsychological Society; American Psychological Association, Div. 40 (Program Committee Member); National Academy of Neuropsychology

Ad Hoc or Invited Reviewer

VA Merit Review RR&D (2004); Irish Research Council for Science, Engineering and Technology (IRCSET), Government of Ireland Postdoctoral Fellowships in Science Application Assessment (June 2004); American Journal of Physical Medicine and Rehabilitation; Journal of the International Neuropsychological Society; Brain and Language

Honors

1998 Travel award to attend the Fourth Annual Wisconsin Symposium on Emotion, "Affective Neuroscience". Madison, Wisconsin. April 17-18, 1998

2005 Full Scholarship to attend Fourth Annual Career Development Institute, April 2-5, Stanford University Department of Psychiatry, Palo Alto, CA

C. Contribution to Science

1. In collaboration with Bruce Crosson, my early publications focused on mapping of semantic and other language functions using functional magnetic resonance imaging.
 - a. Crosson, B., Radonovich, K., Sadek, J. R., Gökçay, D., Bauer, R. M., Fischler, I. S., Cato, M. A., Maron, L., Auerbach, E. J., Browd, S. R., Briggs, R. W. (1999). Left-Hemisphere Processing of Emotional Connotation during Word Generation. *NeuroReport*, 10, 2449-2455. PMID: 10574350
 - b. Crosson B, Benefield H, Cato MA, Sadek JR, Moore AB, Wierenga CE, Gopinath K, Soltysik D, Bauer RM, Auerbach EJ, Gökçay D, Leonard CM, Briggs RW (2003) Left and Right Basal Ganglia and Frontal Activity during Language Generation: Contributions to Lexical, Semantic, and Phonological Processes. *Journal of the International Neuropsychological Society*, 9, 1061-1077. PMID: 14738287
 - c. Crosson B, Cato MA, Sadek JR, Gökçay D, Bauer RM, Fischler IS, Maron L, Gopinath K, Auerbach EJ, Browd SR, Briggs RW (2002) Semantic Monitoring of Words with Emotional Connotation during fMRI: Contribution of Anterior Left Frontal Cortex. *Journal of the International Neuropsychological Society*, 8, 607-622. PMID: 12164671
 - d. Cato MA, Crosson B, Gökçay D, Soltysik D, Wierenga C, Gopinath K, Himes N, Belanger H, Bauer RM, Fischler IS, Gonzalez Rothi L, Briggs RW (2004) Processing Words with Emotional Connotation: An fMRI Study of Time Course and Laterality in Rostral Frontal and Retro splenic Cortices. *Journal of Cognitive Neuroscience*, 16, 167-177. PMID: 15068589
2. As a member of the DirecNet consortium, my work has centered on cognitive development in youth with type 1 diabetes.
 - a. Cato, M. A., Mauras, N., Ambrosino, J., Bondurant, A., Conrad, A L., Kollman, C., Cheng, P., Beck, R. W., Ruedy, K. J, Aye, T., Reiss, A. L., White, N. H., & Hershey, T. for the Diabetes Research in

- Children Network (DirecNet) (2014). Cognitive functioning in young children with type 1 diabetes. *Journal of the International Neuropsychological Society*, 20, 238-247. PMID: 24512675
- b. Mauras, N., Mazaika, P., Buckingham, B., Weinzimer, S., White, N., Tsalikan, E., Hershey, T., Cato, A., Cheng, P., Kollman, C., Kollman, C., Beck, R., Ruedy, K.; Aye, T., Fox, L., Arbelaez, A., Wilson, D.; Tansey, M., Tamborlane, W.; Peng, D., Marzelli, M., Winer, K., & Reiss, A.; Diabetes Research in Children Network (DirecNet) (2015). Longitudinal assessment of neuroanatomical and cognitive differences in young children with type 1 diabetes: Association with hyperglycemia. *Diabetes*, 64(5), 1770-1779. PMID: 25488901
 - c. Cato, M. A., Mauras, N., Mazaika, P., Kollman, C., Cheng, P., Aye, T., Ambrosino, J., Beck, R. W., Ruedy, K. J., Reiss, A. L., Tansey, M., White, N. H., & Hershey, T. (2016). Longitudinal evaluation of cognitive functioning in young children with type 1 diabetes over 18-Months. *Journal of the International Neuropsychological Society*, 20, 1-10. PMID: 26786245
 - d. Mazaika, P. K., Weinzimer, S. A., Mauras, N., Buckingham, B., White, N. H., Tsalikian, E., Hershey, T., Cato, A., Aye, T. Fox, L., Wilson, D. M., Tansey, M., Tamborlane, W., Peng, D., Raman, M., Marzelli, M., Winer, K., & Reiss, A. L.; Diabetes Research in Children Network (DirecNet) (2016). Variations in brain volume and growth in young children with type 1 diabetes. *Diabetes*, 65(2), 476-485. PMID: 26512024

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1DwTOM4w3oZ52/bibliography/43166989/public/?sort=date&direction=ascending>

D. Research Support

Ongoing Research Support

1R01HD078463-01A1 Mauras (Co-PI) & Reiss (Co-PI) 09/10/2014-05/31/2019

Type 1 Diabetes and the Brain in Children: Metabolic Interventions

This study examines longitudinal trajectories of brain and cognitive development in a previously studied large cohort of very young children with type 1 diabetes.

Role: Co-Investigator and Lead, Cognitive Testing Core

Completed Research Support

U10 HD041918-06 Mauras (PI) 06/02/2010-09/09/2013

Cognitive and Neuroanatomical Consequences of Type 1 Diabetes in Young Children

This study characterized cognitive and neuroanatomical differences in a large cohort of very young children with type 1 diabetes over a period of 18 months.

Role: Co-Investigator and Co-Lead, Cognitive Testing Core