

CURRICULUM VITAE

Sandra A. Wiebe, Ph.D.

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OFFICE ADDRESS

P243 Biological Sciences Building
Department of Psychology
University of Alberta
Edmonton, AB T6G 2E9
780-492-2237
Fax: 780-492-1768
sandra.wiebe@ualberta.ca

EDUCATIONAL BACKGROUND

Southern Illinois University School of Medicine, Carbondale, Illinois
Postdoctoral Fellow, July 2004-October 2005
Specialty: Developmental Neuropsychology
Mentor: Dr. Kimberly Andrews Espy

University of Minnesota, Minneapolis, Minnesota
Postdoctoral Associate, November 2003-June 2004
Ph.D. Child Psychology (Minor: Neuroscience), 2003
Dissertation: Tracing the development of executive function in the transition from infancy to early childhood: Relations between working memory, sustained attention, and inhibitory control
Supervisor: Dr. Patricia J. Bauer

University of Winnipeg, Winnipeg, Manitoba
B.A.(Honours) Psychology, 1998
Honours Thesis: Rhyming and relatedness: Inhibition in children's picture naming
Supervisor: Dr. James M. Clark

ACADEMIC POSITIONS

University of Alberta, Edmonton, Alberta
Associate Professor, Developmental Science, Department of Psychology, July 2015 – present
Associate Chair (Research), Department of Psychology, July 2015 – June 2016
Assistant Professor, Developmental Science, Department of Psychology, July 2009 – June 2015
Member, Neuroscience and Mental Health Institute, September 2009 – present
University of Nebraska-Lincoln, Lincoln, Nebraska
Research Assistant Professor, Psychology, November 2005 – June 2009
Project Site Director, Developmental Cognitive Neuroscience Laboratory, November 2005 – June 2009

EXTRAMURAL FUNDING

Current:

NSERC Discovery Grant: "Executive function in early childhood," April 2016 – March 2021 (Role: PI)
WCHRI Innovation Grant: "Longitudinal relations between physical activity and neurocognitive development in early childhood," July 2015-June 2017 (Role: PI)
WCHRI Innovation Grant (PI: W. Hoglund): "Mental health in early childhood," July 2015-June 2017 (Role: Co-investigator)
Killam Cornerstone Grant: "Parenting and self-regulation in early childhood: Interactions with genetic and prenatal risks," May 2015-October 2016 (Role: PI)
CIHR/NSERC Collaborative Health Research Project (PI: K. Adams): "Robotic interface with haptic guidance and artificial intelligence for people with disabilities," April 2014 – March 2017 (Role: Co-investigator)
ACCFCR/Alberta Ministry of Health Contract: "Alberta Collaborative: An RCT of PAX Good Behaviour Game and Triple P Parenting," January 2013 – December 2017 (Role: Co-investigator)

CIHR Operating Grant (PI: T. Oberlander): “Early childhood behavior: Relations to early brain structure/function and maternal mood,” April 2012 – March 2017 (Role: Co-investigator)

Past:

NSERC: “Determining the structure of executive function in the transition from preschool to middle childhood using behavioural and electrophysiological methods,” April 2011 – March 2016 (Role: PI)

ACCFRC/Norlien Foundation: “Dose-response relationships between physical activity, sedentary behaviour, and neurocognitive development among children of the early years,” August 2014-December 2015 (Role: Co-PI)

NIH (2R01-MH065668-06A1; PI: K. Espy): “Executive function development in preschool children,” July 2009 – June 2014 (Role: Co-investigator)

NIH (R21-DA024769-01A1): “Prenatal tobacco exposure, self regulation, and externalizing behaviors in early childhood,” January 2009 – December 2011 (Role: PI)

Nebraska Department of Health and Human Services Cancer and Smoking Disease Research Program Grant: “Prenatal smoking, genetic risk, and infant development,” July 2008 – June 2009 (Role: PI)

NIH (Administrative Supplement to R01-DA014661, PI: K. Espy): “Prenatal Tobacco Exposure: Perinatal & Genetic Risks,” July 2006 – May 2008 (Role: Co-Investigator)

INTRAMURAL FUNDING

Past:

University of Alberta Killam Research Fund – Conference Travel Grant, May 2015

University of Alberta Faculty of Arts Startup Grant, July 2009 – September 2011

University of Alberta Killam Research Fund – Conference Travel Grant, May 2011

University of Alberta Endowment Fund for the Future – Capital Recruitment Fund

“Pediatric Hydrocel Geodesic Sensor Nets and Software for EEG Data Analysis,” July 2010

University of Alberta Endowment Fund for the Future - Support for the Advancement of Scholarship Research Fund (Travel Grant), May 2010

University of Nebraska-Lincoln Research Council Seed Grant “Neural mechanisms of smoking dependence,” January 2007 – December 2007

University of Minnesota Center for Cognitive Sciences Mini-Grant “Executive function and inhibitory control during the transition from infancy to early childhood: Bridging the gap with elicited imitation and other behavioral tasks,” January 2002 – December 2002

FELLOWSHIPS, HONOURS AND AWARDS

Selected to attend Canadian Institutes of Health Research New Principal Investigators Meeting (Institutes of Genetics & Neurosciences, Mental Health, & Addiction) 2010

Selected to attend National Institute on Drug Abuse Research Training Institute (NIH) 2006

Selected to attend John Merck Fund Summer Institute on the Biology of Developmental Disabilities 2005

Nelson Butters Award, Best abstract by a postdoctoral fellow, International Neuropsychological Society 2005

SRCD Student Travel Award 2003

PGS B Fellowship, NSERC 2001-2003

PGS A Fellowship, NSERC 1999-2001

University of Minnesota Graduate School Fellowship 1998-1999

PGS A Fellowship, NSERC (declined) 1998-2000

NSERC Undergraduate Student Research Award 1996

Dr. A. R. Cragg Scholarship in Psychology 1994-1996

Governor General’s Bronze Medal, Government of Canada 1993

PEER-REVIEWED PUBLICATIONS

(students and postdoctoral fellows under my supervision/mentorship are underlined)

Carson, V., Hunter, S., Kuzik, N., Wiebe S. A., Spence, J. C., Friedman, A., Tremblay, M. S., Slater, L., & Hinkley, T. (2016). Systematic review of physical activity and cognitive development in early childhood. *Journal of Science and Medicine in Sport, 19*, 573-578

- McFall, G. P., Wiebe, S. A., Vergote, D., Anstey, K. J., & Dixon, R. A. (2016). Alzheimer's genetic risk intensifies neurocognitive slowing associated with diabetes in non-demented older adults. *Alzheimer's and Dementia: Diagnosis, Assessment, & Disease Monitoring*, *1*, 395-402.
- Sapkota, S., Wiebe, S.A., Small, B.J., & Dixon, R.A. (2016). Apolipoprotein E and Clusterin can magnify effects of personality vulnerability on declarative memory performance in non-demented older adults. *International Journal of Geriatric Psychiatry*, *31*, 502-509.
- Thibreau, S., McFall, G. P., Wiebe, S.A., Anstey, K. J., & Dixon, R. A. (2016). Genetic factors moderate everyday physical activity effects on executive functions in aging: Evidence from the Victoria Longitudinal Study. *Neuropsychology*, *30*, 6-17.
- Carson, V., Kuzik, N., Hunter, S., **Wiebe S. A.**, Spence, J. C., Friedman, A., Tremblay, M. S., Slater, L., & Hinkley, T. (2015). Systematic review of sedentary behavior and cognitive development in early childhood. *Preventive Medicine*, *78*, 115-122.
- McFall, G. M., Wiebe, S. A., Vergote, D., Westaway, D., Jhamandas, J., Bäckman, L., & Dixon, R. A. (2015). *ApoE* and pulse pressure interactively influence level and change in the aging of episodic memory protective effects among $\epsilon 2$ carriers. *Neuropsychology*, *29*, 388-401.
- Nelson, J. M., Choi, H.-J., Clark, C. A. C., James, T. D., Fang, H., **Wiebe, S. A.**, & Espy, K. A. (2015). Sociodemographic risk and early environmental factors that contribute to resilience in executive control: A factor mixture model of 3-year-olds. *Child Neuropsychology*, *21*, 354-378.
- Alvarez, L., Wiebe, S. A., Adams, K., Hope, A., & Cook, A. (2014). The neurophysiology of augmentative manipulation: A method for technical implementation. *Technology and Disability*, *26*, 65-77.
- Chevalier, N., James, T. D., **Wiebe, S. A.**, Nelson, J. M., & Espy, K. A. (2014). Contribution of reactive and proactive control to children's working memory performance: Insight from item recall durations in response sequence planning. *Developmental Psychology*, *50*, 1999-2008.
- Chevalier, N., Kelsey, K. M., **Wiebe, S. A.**, & Espy, K. A. (2014). The temporal dynamic of preschool response inhibition: An ERP study of partial and successful inhibition. *Developmental Neuropsychology*, *39*, 585-599.
- Clark, C. A. C., Nelson, J. M., Garza, J., Sheffield, T. D., **Wiebe, S. A.**, & Espy, K. A. (2014). Gaining control: Changing relations between executive control and processing speed and their relevance for mathematics achievement across the preschool period. *Frontiers in Psychology*, *5*, Article 107.
- McFall, G. P., Wiebe, S. A., Vergote, D., Jhamandas, J., Westaway, D., & Dixon, R. A. (2014). *IDE* (rs6583817) polymorphism and pulse pressure are independently and interactively associated with level and change in executive function in older adults. *Psychology and Aging*, *29*, 418-430. Special Issue on "Genetics and Aging".
- McLean, S. P., Garza, J. P., Wiebe, S.A., Dodd, M.D., Smith, K.B., Hibbing, J.R., & Espy, K.A. (2014). Applying the Flanker task to political psychology: A research note. *Political Psychology*, *35*, 831-840.
- Wiebe, S. A.**, Fang, H., Johnson, C., James, K. E., & Espy, K. A. (2014). Determining the impact of prenatal tobacco exposure on self-regulation in 6-month-old infants. *Developmental Psychology*, *50*, 1746-1756.
- Chevalier, N., Huber, K. L., **Wiebe, S. A.**, & Espy, K. A. (2013). Qualitative change in executive control during childhood and adulthood. *Cognition*, *128*, 1-12.
- Clark, C. A. C., Sheffield, T. D., Chevalier, N., Nelson, J. M., **Wiebe, S. A.**, & Espy, K. A. (2013). Charting early trajectories of executive control with the Shape School. *Developmental Psychology*, *49*, 1481-1493.
- Clark, C. A. C., Sheffield, T. D., **Wiebe, S. A.**, & Espy, K. A. (2013). Longitudinal associations between executive control and developing mathematical competence in preschool boys and girls. *Child Development*, *84*, 662-677.
- McFall, G. P., Wiebe, S. A., Vergote, D., Westaway, D., Jhamandas, J., & Dixon, R. A. (2013). *IDE* (rs6583817) polymorphism and type 2 diabetes differentially modify executive function in older adults. *Neurobiology of Aging*, *34*, 2208-2216.
- Chevalier, N., Sheffield, T. D., Nelson, J. M., Clark, C. A. C., **Wiebe, S. A.**, & Espy, K. A. (2012). Underpinnings of the costs of flexibility in preschool children: The roles of inhibition and working memory. *Developmental Neuropsychology*, *37*, 99-118.
- Schoemaker, K., Bunte, T., **Wiebe, S. A.**, Espy, K. A., Dekovic, M., & Matthys, W. (2012). Executive function deficits in preschool children with ADHD and DBD. *Journal of Child Psychology and Psychiatry*, *53*, 111-119.

- Wiebe, S. A.**, Sheffield, T. D., & Espy, K. A. (2012). Separating the fish from the sharks: A longitudinal study of preschool response inhibition. *Child Development, 83*, 1245-1261.
- Bull, R., Espy, K. A., **Wiebe, S. A.**, Sheffield, T. D., & Nelson, J. M. (2011). Using confirmatory factor analysis to understand executive control in preschool children: Sources of variation in emergent mathematics skills. *Developmental Science, 14*, 679-692.
- Chevalier, N., **Wiebe, S. A.**, Huber, K., & Espy, K. A. (2011). Switch detection in preschoolers' cognitive flexibility. *Journal of Experimental Child Psychology, 109*, 353-370.
- Espy, K. A., Sheffield, T. D., **Wiebe, S. A.**, Clark, C. A., & Moehr, M. (2011). Executive control and dimensions of problem behaviors in preschool children. *Journal of Child Psychology and Psychiatry, 52*, 33-46.
- Espy, K. A., Stopp, C., **Wiebe, S. A.**, Respass, J., Fang, H., & Johnson, C. (2011). Prenatal tobacco exposure: Developmental outcome in the neonatal period. *Developmental Psychology, 47*, 153-169.
- Wiebe, S. A.**, Sheffield, T. D., Nelson, J. M., Clark, C. A. C., Chevalier, N., & Espy, K. A. (2011). The structure of executive function in 3-year-old children. *Journal of Experimental Child Psychology, 108*, 436-452. "Executive Function" Special Issue.
- Fang, H., Johnson, C., Chevalier, N., Stopp, C., **Wiebe, S. A.**, Wakschlag, L. S., & Espy, K. A. (2010). Using propensity score modeling to minimize the influence of confounding risks. *Nicotine & Tobacco Research, 12*, 1211-1219.
- Wiebe, S. A.**, Lukowski, A. F., & Bauer, P. J. (2010). Sequence imitation and reaching measures of executive control: A longitudinal examination in the second year of life. *Developmental Neuropsychology, 35*, 522-538.
- Fang, H., Espy, K. A., Rizzo, M. L., Stopp, C., **Wiebe, S. A.**, & Stroup, W. W. (2009). Pattern recognition of longitudinal trial data with nonignorable missingness: An empirical case study. *International Journal of Information Technology & Decision Making, 8*, 491-513.
- Lukowski, A. F., **Wiebe, S. A.**, & Bauer, P. J. (2009). Going beyond the specifics: Generalization of single actions, but not temporal order information, at nine months. *Infant Behavior and Development, 32*, 331-335.
- Wiebe, S. A.**, Espy, K. A., Stopp, C., Stewart, P., Respass, J., Jameson, T. R., Gilbert, D., & Huggenvik, J. (2009). Gene-environment interactions across development: Exploring DRD2 genotype and prenatal smoking effects on self-regulation. *Developmental Psychology, 45*, 31-44. "Interplay of Biology and the Environment Broadly Defined" Special Section.
- Bull, R., Espy, K. A., & **Wiebe, S. A.** (2008). Short-term memory, working memory and executive functioning in preschoolers: Longitudinal predictors of mathematical achievement. *Developmental Neuropsychology, 33*, 205-228.
- Wiebe, S. A.**, Espy, K. A., & Charak, D. (2008). Using confirmatory factor analysis to understand executive control in preschool children: I. Latent structure. *Developmental Psychology, 44*, 575-587.
- Espy, K. A., Senn, T. E., Charak, D., Tyler, J. & **Wiebe, S. A.** (2007). Perinatal pH and neuropsychological outcomes at age 3 years in children born preterm: An exploratory study. *Developmental Neuropsychology, 32*, 669-682.
- Wiebe, S. A.**, Cheatham, C. L., Lukowski, A. F., Haight, J. C., Muehluck, A. J., & Bauer, P. J. (2006). Infants' ERP responses to novel and familiar stimuli change over time: Implications for novelty detection and memory. *Infancy, 9*, 21-44.
- Bauer, P. J., **Wiebe, S. A.**, Carver, L. J., Lukowski, A. F., Haight, J. C., Waters, J. M., & Nelson, C. A. (2006). Electrophysiological indices of encoding and behavioral indices of recall: Examining relations and developmental change late in the first year of life. *Developmental Neuropsychology, 29*, 293-320.
- Wiebe, S. A.**, & Bauer, P. J. (2005). Interference from additional props in an elicited imitation task: When in sight, firmly in mind. *Journal of Cognition and Development, 6*, 325-364.
- Lukowski, A. F., **Wiebe, S. A.**, Haight, J. C., DeBoer, T., Nelson, C. A., & Bauer, P. J. (2005). Forming a stable memory representation in the first year of life: Why imitation is more than child's play. *Developmental Science, 8*, 279-298.
- Bauer, P. J., Van Abbema, D. L., **Wiebe, S. A.**, Cary, M. S., Phill, C., & Burch, M. M. (2004). Props, not pictures, are worth a thousand words: Verbal accessibility of early memories under different conditions of contextual support. *Applied Cognitive Psychology, 18*, 373-392.
- Bauer, P. J., **Wiebe, S. A.**, Carver, L. J., Waters, J. M., & Nelson, C. A. (2003). Developments in long-term explicit memory late in the first year of life: Behavioral and electrophysiological indices. *Psychological Science, 14*, 629-635.

Bauer, P. J., **Wiebe, S. A.**, Waters, J. M., and Bangston, S. K. (2001). Reexposure breeds recall: Effects of experience on 9-month-olds' ordered recall. *Journal of Experimental Child Psychology*, *80*, 174-200.

EDITED BOOKS

Wiebe, S. A., & Karbach, J. (Eds.) (under contract). *Executive Function: Development Across the Lifespan*. In M. A. Bell & K. Deater-Deckard (Series Eds.), *Frontiers in Developmental Science*. New York, NY: Psychology Press.

INVITED PUBLICATIONS

- Wiebe, S. A.**, Clark, C. A. C., de Jong, D. M., Chevalier, N., Espy, K. A., & Wakschlag, L. (2015). Prenatal tobacco exposure and self-regulation in early childhood: Implications for developmental psychopathology. *Development and Psychopathology*, *27*, 397-409. "Neural Plasticity, Sensitive Periods, and Psychopathology" Special Issue.
- Wiebe, S. A.** & McFall, G. P. (2014). Reconceptualizing executive function measurement: Implications for lifespan development. [Invited commentary on "Executive functions: Formative versus reflective measurement"]. *Measurement: Interdisciplinary Research and Perspective*, *12*, 115-117.
- Wiebe, S. A.** (2014). Modeling the emergent executive: Implications for the structure and development of executive function. [Commentary on "The emergent executive: A dynamic field theory of the development of executive function"]. *Monographs of the Society for Research in Child Development*, *79*(2), 104-115.
- Clark, C. A. C., Martinez, M. M., Nelson, J. M., **Wiebe, S. A.**, & Espy, K. A. (2014). Children's self-regulation and executive control: Critical for later years. In S. A. Landry & C. Cooper (Eds.), *Wellbeing: A Complete Reference Guide. Volume 1: Wellbeing in Children and Families* (pp. 7-36), New York, NY: Wiley-Blackwell.

SELECTED PRESENTATIONS

Peer-Reviewed Conference Presentations

- Carson, V., Abdul Rahman, A., & **Wiebe, S. A.** (2016, June). What is the association between objectively measured physical activity and sedentary time with cognitive development in children of the early years? In V. Carson (Chair), *Are Physical Activity, Sedentary Time and Screen Time Associated with Cognitive and Psychosocial Development in Early Childhood?* Symposium conducted at the meetings of the International Society of Behavioral Nutrition and Physical Activity, Cape Town, South Africa.
- Wiebe, S. A.**, & Witzke, J. (2016, May). Changing preschoolers' perspective on the Dimensional Change Card Sort. Poster presented at the International Congress on Infant Studies, New Orleans, LA.
- Vrantsidis, D. M., Clark, C. A. C., Chevalier, N., Espy, K. A., & **Wiebe, S. A.** (2016, May). Differential effects of socioeconomic status on "cool" and "hot" executive functions in early childhood: Exploring proximal mechanisms. Poster presented at the International Congress on Infant Studies, New Orleans, LA.
- Elke, S., Maki, K., & **Wiebe, S. A.** (2016, April). Validating a child-adapted mind wandering task. Poster presented at the Cognitive Neuroscience Society Meetings, New York, NY.
- McFall, G. P., Sapkota, S., **Wiebe, S. A.**, Anstey, K. J., & Dixon, R. A. (2015, July). An Alzheimer's genetic risk composite, but not *ApoE*, intensifies diabetes-related neurocognitive slowing in non-demented older adults. Poster presented at the Alzheimer's Association International Conference, Washington, DC.
- Carson, V., Kuzik, N., Hunter, S., Wiebe, S.A., Spence, J.C., Friedman, A., Tremblay, M.S., Slater, L., Hinkley, T. (2015, June). Systematic review of sedentary behavior and cognitive development in early childhood. Poster presented at the meetings of the International Society for Behavioral Nutrition and Physical Activity, Edinburgh, Scotland.
- Abdul Rahman, A., Elke, S., & **Wiebe, S. A.** (2015, March). An electrophysiological study on the influence of emotion on interference control in children. Poster presentation at the meetings of the Cognitive Neuroscience Society, San Francisco, CA.
- Elke, S., Harrison, T., Abdul Rahman, A., & **Wiebe, S. A.** (2015, March). ERP correlates of proactive and reactive attentional control in preschool and middle childhood. Poster presented at the meetings of the Cognitive Neuroscience Society, San Francisco, CA.
- Wiebe, S. A.**, Clark, C. A. C., de Jong, D. M., Chevalier, N., Espy, K. A., & Wakschlag, L. (2015, March). Self-regulation in early childhood: Relations with gender and prenatal tobacco exposure. Poster presented at the meetings of the Society for Research in Child Development, Philadelphia, PA.

- McFall, G. P., Wiebe, S. A., Anstey, K., & Dixon, R. A. (2015, February). An Alzheimer's genetic risk composite interacts with diabetes status to predict neurocognitive speed level and change in non-demented older adults. Poster presented at the meetings of the International Neuropsychological Society, Denver, CO.
- Thibeau, S. T., McFall, G. P., Wiebe, S. A., & Dixon, R. A. (2014, November). Gene X physical activity interactions affect executive functioning in aging: Cross-domain longitudinal analyses. Poster presented at the meetings of the Gerontological Society of America, Washington, DC.
- Pruner, T., Smithson, L., Ritzen, L., & Wiebe, S. A. (2014, May). Preschoolers' semantic integration of speech and gesture during a narrative task. Poster presented at Development 2014: A Canadian Conference on Developmental Psychology, Ottawa, ON.
- Abdul Rahman, A., Wiebe, S. A., Carroll, D. J., & Espy, K. A. (2014, April). The effect of inducing time pressure on response inhibition in early childhood: An ERP study. Poster presented at the meetings of the Cognitive Neuroscience Society, Boston, MA.
- Elke, S., Kapasi, A., Shi, D., & Wiebe, S. A. (2014, April). Gender differences in emotion-cognition interactions in early and middle childhood. Poster presented at the meetings of the Cognitive Neuroscience Society, Boston, MA.
- McFall, G. P., Wiebe, S. A., Vergote, D., Backman, L., & Dixon, R. A. (2014, April). Genetic and vascular health influences on the aging of episodic memory: Interactive effects of ApoE and pulse pressure. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Pawlowski, A. N., Kozyrskij, A. L., Tough, S. C., Wiebe, S. A., & Dibden, L. J. (2013, October). Maternal early life trauma and wheeze in young children: Could there be an association? Poster presented at the meetings of the Canadian Society of Allergy and Clinical Immunology, Toronto, ON.
- Alvarez, L., Wiebe, S. A., Adams, K., & Cook, A. (2013, September). The neurophysiology of augmentative manipulation: A method for technical implementation. Paper presented at the meetings of the Association for the Advancement of Assistive Technology, Vilamoura, Portugal.
- Wiebe, S. A., Khoei, M., & Lebeuf, S.** (2013, April). Neural correlates of response inhibition in the preschool years: An ERP study. Poster presented at the biennial meetings of the Society for Research in Child Development, Seattle, WA.
- Chevalier, N., Huber, K., Wiebe, S. A., & Espy, K. A. (2013, April). Qualitative changes in executive control during childhood and adulthood: The case of switch detection. Poster presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Elke, S., Shi, D., Khoei, M., Kapasi, A., & Wiebe, S. A. (2013, April). Neural correlates of response conflict and emotional regulation in middle childhood. Poster presented at the meetings of the Cognitive Neuroscience Society, San Francisco, CA.
- Khoei, M., West, K., Lebeuf, S., & Wiebe, S. A. (2012, July). Effects of cognitive load on response inhibition in preschool children. Poster presented at the biennial meetings of the International Society for the Study of Behavioural Development, Edmonton, AB.
- Pruner, T. J., Smithson, L., Ritzen, L., & Wiebe, S. A. (2012, July). Handling verbs: The association between iconic gestures and motor verbs emerges in the preschool years. Poster presented at the biennial meetings of the International Society for the Study of Behavioural Development, Edmonton, AB.
- Wiebe, S. A., Johnson, C., Clark, C. A. C., Sheffield, T. D., Nelson, J. M., Chevalier, N., & Espy, K. A.** (2012, February). Understanding executive function in early childhood: Insights from confirmatory factor analysis. In S. Carlson (Chair), *Methodological Advances in the Study of Executive Function*. Symposium presented at the Society for Research in Child Development Themed Meeting: Developmental Methodology, Tampa, FL.
- Wiebe, S. A., Espy, K. A., Stopp, C., Sheffield, T., & Kelsey, K. M.** (2009, October). The impact of prenatal tobacco exposure on early self-regulation: Neurodevelopment in the first three years. In N. Borek & S. Noursi (Chairs), *New Directions in Research on Prenatal Nicotine Exposure: Early Neurobehavioral Outcomes, Genetic Influences, and Treatment for Pregnant Women Who Smoke*. Symposium conducted at the meetings of the American Academy of Child and Adolescent Psychiatry, Honolulu, Hawaii.
- Wiebe, S. A., James, K. E., Koziol, N., Stopp, C., & Espy, K. A.** (2009, April). Regulation of attention and emotion at 6 months: The effect of prenatal tobacco exposure. In S. A. Wiebe (Chair), *Prenatal Tobacco Exposure: Effects on Neurobehavioral Outcomes Across Development*. Symposium conducted at the meetings of the Society for Research in Child Development, Denver, Colorado.

Invited Presentations

- Wiebe, S. A. (2016, January). Cognitive flexibility in early and middle childhood: Insights from behaviour and ERPs. Invited presentation to the Cognitive Seminar group, Department of Psychology, University of Alberta, Edmonton, AB.
- Wiebe, S. A. (2015, November). Cognitive flexibility in early and middle childhood: Insights from behaviour and ERPs. Invited Seminar, Department of Psychology, Uppsala University, Uppsala, Sweden.
- Wiebe, S. A. (2014, February). Parsing childhood self-regulation: Behavioral and electrophysiological approaches. Developmental Lunch Series, Department of Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC.
- Wiebe, S. A. (2013, June). The impact of prenatal tobacco exposure on self-regulation in infancy and early childhood. In A. Kozyrskyj (Chair), *Parent Stress and Child Health Symposium*. Department of Pediatrics, University of Alberta Faculty of Medicine & Dentistry, Edmonton, AB.
- Wiebe, S. A. (2012, October). Separating the fish from the sharks: Longitudinal growth and neural correlates of preschool response inhibition. Departmental Seminar, Department of Psychology, University of Alberta, Edmonton, AB.
- Wiebe, S. A., Clark, C. A. C., Johnson, C., Fang, H., Chevalier, N., & Espy, K. A. (2012, July). The impact of prenatal tobacco exposure on self-regulation in infancy and early childhood. In S. A. Wiebe & M. C. Moulson (Chairs), *Using Developmental Cognitive Neuroscience Methods to Understand the Impact of Risk Factors in Early Development*. Invited symposium presented at the biennial meetings of the International Society for the Study of Behavioural Development, Edmonton, AB.
- Wiebe, S. A. (2011, November). Understanding self-regulation in early development: Insights from low-risk and at-risk samples. Invited paper presented at the Women and Children's Health Research Institute Research Day, Edmonton, Alberta.
- Wiebe, S. A. (2011, March). Executive function in preschool children: Implications for theory and practice. Invited talk to the Division of Clinical Psychology, Department of Psychiatry, University of Alberta, Edmonton, AB.
- Wiebe, S. A. (2010, April). Understanding executive control in the preschool years: Behavioural and electrophysiological methods. Centre for Neuroscience Weekly Seminar, University of Alberta, Edmonton, AB.
- Wiebe, S. A. (2006, March). Executive control in the preschool years: A latent variable approach. Research Seminar Series, Center for Brain and Cognitive Development, Birkbeck College, London, UK.

COURSES TAUGHT*University of Alberta*

Psyco 421/622, Advanced Topics in Human Development (Undergraduate/Graduate) Seminar Title: "Developmental Cognitive Neuroscience"	2012-present
Psyco 323: Infant and Child Development	2012-present
Psyco 523, Developmental Methods: Applications	2011-present
Psyco 223, Lifespan Developmental Psychology	2009-2014
Psyco 299, Research Opportunity in Psychology Mentored up to 3 junior undergraduate students per semester in directed research	2010-present
Psyco 496/498, Independent Study in Psychology Mentored up to 8 senior undergraduate students per semester in directed research	2009-present
Psyco 323, Lifespan Developmental Psychology, "Executive Function" guest lecture	2012-present
Psyco 375, Cognitive Neuroscience, "Developmental Cognitive Neuroscience" and "Genetics" guest lectures	2009-present
Psyco 323, Infant and Child Development, "Prefrontal Cortex Development" and "Self Regulation" guest lectures	2010-present
Psyco 325, Applied Developmental Psychology, "Emotion Regulation" guest lecture	2010
Psyco 511, Biological Aspects of Psychiatry, "Neuroimaging" guest lecture	2010
<i>University of Nebraska-Lincoln</i>	
Psych 498/971, Developmental Cognitive Neuroscience Seminar	2008
Psych 299/499, Independent Study in Psychology Supervised/mentored up to 12 undergraduate students per semester in directed research	2006-2009

University of Minnesota, Institute of Child Development CPsy 4310, Special Topics in Child Development Seminar Title: "Baby Darwin: Brain Development, Cognition, and Evolution"	2002, 2004
CPsy 2301, Introductory Child Psychology	2000

STUDENT MENTORSHIP

Mentored Student Awards

2015	Emma Blakey, White Rose Doctoral Training Centre Overseas Institutional Visit, Economic and Social Research Council UK
2015	Katherine Maki, NSERC Undergraduate Summer Research Award (USRA)
2014	Megan Pinkoski, NSERC USRA
2012	Diya Shi, Summer Studentship, Women & Children's Health Research Institute
2011	Kelly West, Roger Smith Award, Faculty of Arts, University of Alberta
2008-2009	Ashley McDonald, Undergraduate Creative Activities and Research Experience (UCARE) Award, University of Nebraska-Lincoln
2007-2009	Eu Gene Chin, UCARE Award, University of Nebraska-Lincoln
2007-2009	Pamela Best, UCARE Award, University of Nebraska-Lincoln
2006-2008	Sari Raber, UCARE Award, University of Nebraska-Lincoln

Undergraduate Theses Supervised

Michael Warren (Psychology, in progress)	Tieghan Baird (Psychology, 2016)
Megan Pinkoski (Psychology, 2016)	Aurielee Volk (Psychology, 2016)
Katherine Maki (Neuroscience, 2016)	Shrida Sahadavan (Neuroscience, 2015)
Tyler Harrison (Neuroscience, 2014)	Breanna Steinke (Psychology, 2014)
Justin Witzke (Psychology, 2014)	Kelly West (Psychology, 2012)
Eu Gene Chin (Psychology, 2009)	Scott McLean (Psychology, 2009)
Tara Steiner (Psychology, 2008)	

Doctoral Theses Supervised or Co-supervised

Sarah Elke (Psychology, in progress)	Aishah Abdul Rahman (Neuroscience, in progress)
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Master's Theses Supervised

Daphne Vratsidis (Psychology, in progress)	Dorothea Hui (Psychology, in progress)
Sarah Elke (Psychology, 2014)	

Master's Committees

Teresa Mejia (Psychology, 2015)	Shrida Sahadevan (Communication Science, 2016)
Sheri Thibeau (Psychology, 2015)	Kathryn Anton (Speech-Language Pathology, 2015)
Lauren Alston (Psychiatry, 2014)	Shichen (Freya) Fang (Psychology, 2014)
Kristina Nand (Psychology, 2014)	Alicia Pawlowski (Epidemiology, 2013)
Shraddha Sapkota (Neuroscience, 2013)	Bonnie Whitehead (Psychology, 2013)
Ian Surdhar (Neuroscience, 2012)	Jiawen Chen (Psychology, 2012)
Lisa Smithson (Psychology, 2011)	Dayuma Vargas Lascano (Psychology, 2011)

Candidacy Exam Committees

Freya Fang (Psychology, 2016)	Isao Sakamaki (Rehab Science, 2016)
Yu (Karen) Du (Psychology, 2016)	Shraddha Sapkota (Neuroscience, 2015)
Poliana Barbosa (Psychology, 2015)	Jiawen Chen (Psychology, 2013)
Michelle Chan (Psychology, 2013)	Sukhpreet Tamana (Educational Psychology, 2013)
Yvonne Chen (Neuroscience, 2013)	Lisa Smithson (Psychology, 2012)
Sawa Senzaki (Psychology, 2012)	Dayuma Vargas Lascano (Psychology, 2012)
Liliana Alvarez (Rehab Science, 2012)	Leanna Cruikshank (Neuroscience, 2011)
G. Peggy McFall (Psychology, 2010)	Carley Piatt (Psychology, 2009)

Doctoral Committees

Shraddha Sapkota (Neuroscience, 2016) Sukhpreet Tamana (Educational Psychology, 2016)
 Sarah Treit (Neuroscience, 2015) Lisa Smithson (Psychology, 2014)
 Carley Piatt (Psychology, 2014) G. Peggy McFall (Psychology, 2014)
 Liliana Alvarez Jaramillo (Rehab Science 2014) Sawa Senzaki (Psychology, 2013)

External Examiner

Hanna Kubas (Educational Psychology, University of Calgary, 2016)
 Maria Johannsen (Psychology, Uppsala University, 2015)

PROFESSIONAL MEMBERSHIPS

Women and Children's Health Research Institute (2009-present)
 Association for Psychological Science (2004-present)
 Cognitive Neuroscience Society (2007-present)
 International Congress on Infant Studies (2000-present)
 Society for Research in Child Development (1997-present)

PROFESSIONAL ACTIVITIES AND SERVICE*Department/University Service*

Associate Chair (Research), Department of Psychology, University of Alberta (2015-2016)
 Psychology Awards Committee, Department of Psychology, University of Alberta (chair 2015-2016)
 Graduate Program Committee, Department of Psychology, University of Alberta (2015-2016)
 Royce Conference Organizing Committee, Department of Psychology, University of Alberta (member 2009-2012;
 co-chair 2013-2015)
 Internal Grant Review Committee, Department of Psychology, University of Alberta (member 2012-2015; chair
 2015-2016))
 Summer Studentship Review Panel, Women and Children's Health Research Institute (2013-2014)
 Faculty of Arts Graduate International Travel Award Committee, University of Alberta (2012-2013)
 Developmental Area representative, Space Planning Committee, Department of Psychology, University of Alberta
 (2012)
 Learning Outcomes Committee, Department of Psychology, University of Alberta (2011-2012)
 Peer Reviewer, Grant Assist Program, University of Alberta (2010, 2014)

Extramural Service

Advisory Board Member, *Developmental Science* (2014-present)
 Review Panel Member, Social Sciences and Humanities Research Council of Canada (SSHRC), Ottawa, ON (2014-
 2016)
 Review Panel Member, NIH: OppNet RFA "Basic Mechanisms of Self-regulation", Washington, DC (June 2011);
 Cognition and Perception panel, San Francisco, CA (February 2016)
 Local Organizing Committee, International Society for the Study of Behavioural Development (2010-2012):
 Exhibits Subcommittee (co-chair) and Volunteer Subcommittee (chair)
 Program Review Panel Member, Society for Research in Child Development: Biological Processes (2014);
 Attention, Learning, and Memory (2010; 2012); Infancy: Biological, Cognitive, Motor, Perceptual Processes
 (2008)
 Ad hoc grant reviewer (2011-): Canadian Foundation for Innovation, Economic and Social Research Council (UK),
 Michael Smith Foundation for Health Research; National Science Foundation; NSERC; Netherlands
 Organisation for Scientific Research; Swiss National Science Foundation
 Ad hoc reviewer for over 25 peer-reviewed journals (2003-)
 Textbook proposal/chapter reviews (2011-): SAGE, Wiley, Worth