

CURRICULUM VITAE

KIMBERLY ANDREWS ESPY, Ph.D.,

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EDUCATION & LICENSURE:

1985	B.A.	Rice University, Houston, TX. Major: Psychology.
1988	M.A.	University of Houston, Houston, TX, Clinical Neuropsychology.
1994	Ph.D.	University of Houston, Houston, TX, Clinical Neuropsychology.
1992	<i>Intern</i>	APA Child Clinical/Pediatric Psychology, University of Louisville School of Medicine, Louisville, KY.
1996	<i>Post-Doctoral Fellow</i>	Department of Pediatrics, University of Arizona College of Medicine, Tucson, AZ.
1997-	<i>Licensed Clinical Psychologist</i>	State of Illinois #071-005297; Inactive, State of Arizona.
2003-	<i>Registrant</i>	National Register of Health Service Providers in Psychology #50330

ACADEMIC POSITIONS:

2005- *Professor*, Department of Psychology, University of Nebraska-Lincoln (UNL).
Duties include directing the Developmental Cognitive Neuroscience Laboratory, with 4 post-doctoral fellows, 2 graduate students, 13 research staff and 40 undergraduates.

1996 - 2005 *Professor*, 2005; *Associate Professor* 2002-2005; *Assistant Professor*, 1996-2002.
Department of Family & Community Medicine, Southern Illinois University School of Medicine (SIUSOM), *Cross-Appointment*, Department of Psychology, SIUC Clinical & Experimental Programs.
Duties included teaching neuroscience to medical students using the innovative, organ-based, Problem-Based Learning curriculum, teaching undergraduate and graduate psychology students, and conducting basic and translational clinical neuroscience research.

ADMINISTRATIVE APPOINTMENTS:

The University of Nebraska-Lincoln (UNL) was chartered in 1869 and is the flagship, comprehensive and land-grant, public research university for the state. With approximately 1500 faculty members and 25,000 students, UNL is a Carnegie I institution and has been an AAU member since 1909.

2005- *Associate Vice Chancellor for Research*
UNL's total research awards have increased 181% since 2000 to \$139.2M for FY2010, the 12th largest gain among AAU schools. Since 2005, I have been directly responsible for large-scale interdisciplinary efforts and strategic initiatives, faculty development, and research compliance. In this role, I work closely with Vice Chancellor for Research & Economic Development (P. Paul) and his team on all matters, including budget, policy, planning, administration, facilities, communication, and economic development.

- Facilitated interdisciplinary research and increased external applications/funding through agency workshops or visits (NIH, NSF, DoD, DOI) & internal strategic cluster funding.
- Coordinated campus-wide, interdisciplinary NSF ADVANCE grant application (\$3.8M, awarded 2008) to enhance faculty diversity by increasing the number of women faculty in STEM.
- Developed campus-wide interdisciplinary research initiative in Systems Biology of Social Behavior (university center application pending), planned research facility construction, facilitated NSF IGERT application for interdisciplinary graduate training (selected for full proposal).
- Coordinated 7 large federal applications for facility renovation or construction under American Recovery and Reinvestment Act; 5 NIH (2 scored for funding, \$4M, \$7M), 1 NIST (1 of 12 funded out of 166 applications, \$6.7M Nanoscience Metrology Facility), 1 NSF (funded – \$2M, High Energy Laser Science Collaboratory)
- Established collaborative Platte River Basin – Climate Change Network with the US Geological Survey, anchor site for US Climate Effects Network; partner in DOI Climate Science Center (Colorado State University lead) and NSF EaSM application pending.
- Increased faculty collaborations with national laboratories (Oak Ridge, Sandia/Los Alamos).
- Developed a private-public partnership with Teledyne ISCO to develop novel nanomaterials.
- Chaired Chancellor's Life Science Instrumentation Committee that recommended needed enhancements to research equipment, acquisition processes, and management to better serve faculty; currently overseeing campus implementation.
- Developed and implemented: a) Research Development Fellows program to mentor junior faculty in developing federal grant applications, resulted in a 3-fold increase in early career awards.
- Achieved AAHRPP accreditation (2008) for Human Research Protections Program.
- Developed long range plan for AAALAC accreditation, including upgraded staffing plan, program development and animal facility improvement; implemented first two phases, renovation construction started fall 2010.
- Partnered with Research Information Services to develop web-based electronic systems for a) submission, review and management for compliance modules (IRB, IACUC, IBC, Interest reporting), b) limited submission competition, c) internal grant application submission and review, d) faculty resources (e.g., external review, program officer trips) to enhance competitiveness.
- Initiated Conflicts of Interest and Export Control programs, including development of policies and procedures, faculty oversight mechanisms, and electronic reporting and management systems
- As Institutional Official, conducted 2 research misconduct investigations, 4 inquiries, and 8 cases.

2009- *Acting Dean of Graduate Studies*

The Office of Graduate Studies has 20 FTE, \$1.7M budget, and 57 doctoral and 68 master's degree programs, with the central mission to recruit and retain high quality graduate students in support of the education and research goals of the university. I oversee graduate student recruitment, enrollment, and retention services (including McNair, Summer REUs, international and campus wide teaching assistant preparation), new graduate degree program development, post-doctoral office, and development programs (Preparing Future Faculty, Teaching Documentation).

- 8% increase in graduate applications and all-time record in enrolled graduate students.
- Developed RCR education program, parental duty adjustment policy for graduate assistants
- Managed the campus roll out of the National Research Council's graduate program assessment.
- Developed faculty grant writing assistance service for applications for graduate student support.
- Pursued efforts to enhance graduate student diversity and interdisciplinary graduate education.
- Expanded international recruitment and programmatic collaborations.

Southern Illinois University School of Medicine is a regional medical school with the central mission to train primary care physicians, where the 1st year curriculum is delivered in Carbondale, IL on the SIU-Carbondale campus. SIUSOM is recognized nationally for its pioneering approach to medical education, where the problem-based learning approach was developed and implemented.

2005 *Founding Director, Center for Integrated Research in Cognitive & Neural Sciences.*

I developed and led an interdisciplinary neuroscience research center (School of Medicine, College of Liberal Arts, College of Education), including developing the faculty vision, writing the Board of Regents New Program Request, securing internal funding, developing the office infrastructure, and obtaining strategic hires to enhance and expand collaboration among center faculty.

2004 - 2005 *Administrative Intern, Provost & Vice Chancellor for Research Offices.*

As a competitively selected Administrative Intern under of the University Women's Professional Advancement Leadership Program, I shadowed the Provost (J.M. Dunn, half year) and Vice Chancellor for Research (J. Koropchak, half year).

- Evaluated merit compensation policies and procedures across units, analyzed impact of current schemes compared to performance evaluations and operating practices. Chaired faculty committee (Faculty Excellence Concept Team) that developed recommendations to implement new methods to recognize faculty excellence to promote strategic institutional goals.
- Reviewed administrative structures/procedures and recommended program closure and reorganized reporting lines as a member of the Budget Planning Task Force; reviewed Student Enrollment Management Services and Academic Affairs units and recommended changes to reduce bureaucratic inefficiencies as a member of the Agility & Efficiency Task Force.

HONORS, AWARDS & LEADERSHIP:

- 2010 *Charles Bessey Professor, University of Nebraska-Lincoln*
 (highly competitive, university-wide distinguished professorship)
- 2005 Early Career Award, APA Division 40, Clinical Neuropsychology.
- 2005 *Fellow, APA Division 40 Clinical Neuropsychology.*
- 2004 *Visiting Fellow, British Psychological Society.*
- 2002 Blue Ribbon Award (Best Paper), APA Division 40.
- 2001 Rita G. Rudel/International Neuropsychological Society Award
- 2001 Faculty Educator of the Year, SIUSOM Department of Psychiatry.
- 1981 – 1985 Rice University President's Scholar

EXTRAMURAL RESEARCH LEADERSHIP:

- 2010 *Invited Advisory Panel Member, Research Domain Criteria (RDoc): Working Memory Workshop, NIH, National Institute of Mental Health.*
- 2010 *Invited Advisory Panel Member, Executive Functions in Preschool Children: Current Knowledge and Research Opportunities, NIH, Eunice Kennedy Shriver National Institute of Child Health & Human Development.*
- 2010- *Steering Committee Member, Merrill-Palmer Skillman Institute for Child & Family Development, Wayne State University, Detroit, MI.*
- 2008 *Scientific Review Panel Member, NIH Toolbox, NIH, National Institute on Aging.*
- 2007 - 2012 *Scientific Advisory Board Member, Collaborative Initiative for Fetal Alcohol Syndrome Disorders, NIH, National Institute on Alcoholism and Alcohol Abuse, PI: Ed Riley.*

- 2006 - 2011 *Scientific Advisory Panel Member*, “Domain Specific Tasks of Executive Function”
National Institutes of Health NINDS U010502, PI: J. Kramer.
- 2007- 2009 *Chair*, NIH Study Section, Child Psychopathology & Developmental Disabilities (CPDD).

DISCIPLINE LEADERSHIP:

- 2010 *Program Chair*, International Neuropsychological Society Annual Meeting.
- 2006 - 2009 *Executive Committee Member-At-Large*, American Psychological Association (APA)
Division 40 Clinical Neuropsychology.
- 2004 - 2005 *Program Chair*, APA Division 40, Clinical Neuropsychology.
- 2006- *Editorial Board Member*, Assessment.
- 1999 *Editorial Board Member*, Developmental Neuropsychology.
- 2002 *Visiting Scholar*, University of Aberdeen, Department of Psychology, Scotland, UK.
- 2000 *Invited Delegate*, American Academy of Child & Adolescent Psychiatry Forum.

INSTRUCTIONAL LEADERSHIP:

- 2003 - 2005 *Member*, SIUSOM Year I Curriculum Committee.
- 2001- 2002 *Member*, SIUSOM Bioethics, Technology, and Genetics Curriculum Committee.
- 2001 - 2003 *Member*, 3rd Year SIUSOM Curriculum Committee.
- 2000 - 2004 *Faculty Interviewer*, SIUSOM Applicants.
- 1999 – 2003 *Member* (ex-officio), SIUSOM Student Progress Committee & *Year I Academic Advisor*.
- 1999 – 2005 *Member*, SIUSOM Sensorimotor Systems & Behavior Unit Curriculum Design Team

COMMUNITY LEADERSHIP:

- 2004 - 2005 *Member*, Board of Directors, Shawnee Health Service, Carbondale, IL.
- 2003 - 2004 *Board Member*, SIUC Rainbow’s End Child Development Center.
- 1997 - 2000 *Member*, Citizens Advisory Council, Unity Point School District.
- 1997 - 1998 *Member*, Citizen’s Advisory Board, SIU Child Development Laboratories.

RESEARCH INTERESTS:

Developmental cognitive neuroscience; Impact of pediatric, neurological, and psychiatric disorders on cognitive and neural function in young children; Executive control development; Statistical modeling.

FUNDED RESEARCH GRANTS:**EXTRAMURAL:**

- Pending *Principal Investigator*, “Midwest AGEP Alliance: Planning & Development Summit”,
National Science Foundation, \$149,958
- Pending *Co-Investigator*, “Effects of Sleep Patterns on Development of Self-Regulation and
Adjustment”. PI: J. Bates.
- 8/09-5/14 *Principal Investigator*, “Executive Function Development in Preschool Children” NIH
2R01 MH065668, \$3,310,043 ; Diversity Supplement, M. Martinez, \$147,191
- 4/09-3/14 *Principal Investigator* (Multiple PI with L. Wakschlag), “Prenatal Smoking & Substrates
of Disruptive Behavior in Early Life”, NIH R01 DA023653, \$4,867,328.
- 1/09-12/11 *Co-Principal Investigator*, “Identifying the Biological Underpinnings of Political
Temperament”, The National Science Foundation, PI: J. Hibbing. \$587,068.
- 1/09-12/10 *Co-Principal Investigator*, “Prenatal Tobacco Exposure, Self Regulation, & Externalizing
Behaviors in Early Childhood”, NIH R21 DA024769, PI: S. Wiebe. \$405,625.
- 7/08-6/09 *Collaborator*, “Prenatal Smoking, Genetic Risk, and Infant Development” Nebraska
Department of Health and Human Services, PI: S. Wiebe. \$50,000.

- 12/07-11/09 *Subcontract Principal Investigator*, “Domain Specific Tasks of Executive Function” NIH NINDS U01-05-02, PI: J. Kramer. (\$166,722 UNL subcontract)
- 8/06-6/11 *Investigator*, “Early School Progress in <1000g Birthweight Children”. NIH R01 HD050309, PI: Gerry Taylor. \$3.5M (\$189,594 UNL subcontract).
- 07/05-06/07 *Consultant*, “MRI Morphometry of Verbal Short-term Memory in Children with Dyslexia”, NIH R03 HD048752, PI: M. Kibby.
- 07/05-06/08 *Consultant*, “Prenatal Smoking and Patterns of Youth Problem Behavior”, NIH R01 DA015223, PI: L. Wakschlag.
- 09/04-08/09 *Co-Investigator*, “The Emergence of Cognitive Control”. NIH 5P01 HD038051, PI: D. Washburn.
- 04/04-01/09 *Principal Investigator*, “Executive Function Development in Preschool Children”. NIH R01 MH065668; \$1,629,000
- 08/03-05/08 *Principal Investigator*, “Prenatal Tobacco Exposure: Perinatal & Genetic Risks”. NIH R01 DA014661; \$2,072,500 (incl. administrative supplement, 06/06-05/08).
- 08/04-07/05 *International Fellowship Host*, “Individual Differences in Brain Organization in Preschool children. International Brain Research Organization (S. Kiselev, Fellow, Ural State University, Russia) \$25,000.
- 03/04-02/06 *Consultant*, “Developing a measure of Brain Insults in Kilifi District, Kenya”, NIH R21 TW 06805. PI: P. Holding.
- 11/03-10/05 *Consultante*, “Développement des fonctions exécutives et efficience scolaire chez le jeune enfant : étude du développement normal et pathologique.”. Contrat avec le Ministère délégué à la Recherche et aux Nouvelles Technologies, Action Concertée Incitative « Ecole et Sciences cognitives ». PI: A. Blayé.
- 11/01 – 12/03 *Principal Investigator*, “Executive Function Development in Preschool Children: An ERP study”. Blowitz-Ridgeway Foundation. \$100,000
- 5/01 – 4/03 *Principal Investigator*, Rita G. Rudel/International Neuropsychological Society, “Executive Function Development in Children Born Preterm”. \$20,000
- 7/02-6/06 *Consultant*, “Child and Family Sequelae of Preschool Brain Injury”, NIH R01 HD042729, PI: S. Wade.
- 10/00 - 9/02 *Consultant*, “Maternal and Infant Risk Factors for Abuse: A Model Approach to Multivariate Assessment and Intervention in Families with Premature, Twin Infants”. HHS Administration on Children, Youth, and Families, 90XA0016/01. PI: V. Molfese.
- 10/00 – 12/01 *Co-Principal Investigator*, Psychological Assessment Resources, BRIEF-P Development Grant. Co-PI’s: G. Gioia & P. Isquith. \$1100.
- 6/98 *Consultant*, “Neurobehavioral Effects of Low Level Lead Exposure”. National Institute of Environmental Health Sciences, Co-PI: R. Canfield.
- 10/94 – 6/96 *Consultant*, CSAT HS4 T100585, “Las Amigas: Residential treatment for pregnant and post-partum women”. PI: CODAC Services, Tucson, AZ.
- 8/94 – 8/96 *Co-Investigator*, “CNS tissue damage and cognitive deficits: A nursing model”, NINR R01 NR02557, University of Arizona, Tucson, AZ. PI: Ki Moore.
- 8/94 – 9/95 *Principal Investigator*, CSAP H86 SP01638, “Long-term comprehensive services to mothers and infants”, University of Arizona College of Medicine. \$435,000
- 04/91 *Principal Investigator*, Sigma Xi Grants-in-Aid of Research Award, “Neurobehavioral development in preterm infants exposed to cocaine”, University of Houston, \$300.

INTRAMURAL:

- 7/08 – 6/10 *Principal Investigator*, UNL Minority Health Research Program., “Adaptation of Executive Control Tests for Use in Young Children of Hispanic Ethnicity”. \$136,000

- 8/00 – 6/02 *Principal Investigator*, SIUC Office of Research and Development Administration, Special Research Project “Executive functioning in low level lead exposed preschoolers.” \$23,419.
- 7/97 – 6/00 *Principal Investigator*, SIUSOM Central Research Center Grant, CRC-9904, “Prenatal tobacco exposure, breast feeding, and neurobehavioral development in hospitalized preterm infants”. \$25,000
- 9/97 – 6/99 *Principal Investigator*, SIUC Office of Research and Development Administration, Special Research Project “Treatment for Pregnant and Post-partum Substance-Abusing Women and their Infants: Effects on Drug Use, Mental Health, Social Support and Mental Development”. \$18,546.
- 5/95 – 5/96 *Principal Investigator*, University of Arizona Small Grant I/5ESPY, "Executive functions in toddlers: A normative and comparative study". University of Arizona College of Medicine. \$5,000.
- 8/91 – 8/92 *Investigator*, University of Louisville Medical School Research Award # 423034, "Neurobehavioral development in preterm infants prenatally exposed to cocaine", University of Louisville School of Medicine. PI: M. Riese.

UNIVERSITY SERVICE & ADMINISTRATION:

University of Nebraska-Lincoln:

- 2010- *Member*, Dean’s Council
- 2010- *Member*, University of Nebraska System, Executive Graduate Council
- 2010- *Chair*, Graduate Council
- 2010- *Chair*, Chancellor’s Ad hoc Committee on Conflict of Interest Policy
- 2010- *Member*, ADVANCE Leadership Council
- 2010- *Member*, University Commencement and Honors Convocation Committee
- 2009-2010 *Chair*, UNL Committee on Instrumentation in the Life Sciences
- 2009- *Member*, Planning Committee for University of Nebraska Global Water for Food Institute
- 2008-2010 *Member*, UNL Faculty Senate Ad Hoc Committee on Research Misconduct Policy
- 2007- *Member*, UNL Promotion & Tenure Review Committee (Institution level)
- 2007- *Member*, Search Committees:
 Institute of Agriculture & Natural Resources, Dean, Agricultural Research Division & Director, Nebraska Agricultural Experiment Station;
 College of Education & Human Sciences, faculty, Science Education;
 College of Arts & Sciences, faculty, Neurophysiology of Social Behavior
- 2007-2010 *Member*, International Programs Advisory Council
- 2006- *Institutional Official / Research Integrity Officer*
- 2006- *Member*, Ex-Officio, Conflict of Interest in Research Committee.
- 2007-2008 *Member*, Nebraska Colloquium Committee
- 2006 *Member*, Committee on Interdisciplinary Centers
- 2006 *Member*, NU Committee to establish on College of Public Health
- 2006-2007 *Member*, Selection Committee, College of Engineering Research/Service Awards
- 2005-2007 *Member*, Animal Research Facility Renovation Committee.
- 2005- *Member*, Ex-Officio, Institutional Animal Care and Use Committee.
- 2005- *Member*, Ex-Officio, Institutional Review Board.

Southern Illinois University:

- 2005 *Member*, Steering Committee, North Central Accreditation, SIUC.
- 2005 *Member*, Search Committee, Associate Dean for Research, SOM.

2005	<i>Member</i> , Evaluation team for selection of external consultant for review of Office of Research and Development Administration.
2004-2005	<i>Member</i> , Human Subjects Committee, SIUC.
2004-2005	<i>Chair</i> , Faculty Excellence Concept Team, SIUC
2004-2005	<i>Member</i> , Agility & Efficiency Task Force, Academic/Student Services
2004-2005	<i>Member</i> , Ex-Officio, SIUC Faculty Senate Executive Council
2004-2005	<i>Mentor</i> , College of Education & Human Services Development Program.
2004	<i>Member</i> , Search Committee, Interim Associate SOM Dean for Research
2004	<i>Moderator</i> , Research Town Meeting, SIUC.
2003-2004	<i>Member</i> , SIUC Budget & Planning Task Force
2003-2004	<i>Member</i> , Chancellor's Executive Committee, SIUC.
2003-2004	<i>Member</i> , Faculty Productivity Workgroup; Admissions & Standards Policy Workgroup, SIUC.
2003-2004	<i>President</i> , SIUC Faculty Senate.
2003	<i>Member</i> , Washington Advisory Group Report, Research Focus Group
2002-2003	<i>Member</i> , Search Committees: SOM Year I Curriculum Coordinator; Department of Psychology Behavioral Neuroscience Faculty; Director, Child Development Laboratories; Master Infant/Toddler Teacher.
2001- 2004	<i>Member</i> , SIU Faculty Senate.

EXTRAMURAL SERVICE & ADMINISTRATION:

2011-	<i>Rotating Member</i> , Early Intervention and Early Childhood Education panel, Institute of Educational Sciences, Department of Education.
2010-	<i>Invited Member</i> , College of CSR Reviewers, National Institutes of Health.
2005-2009	<i>Chartered Member</i> , NIH Child Psychopathology & Developmental Disabilities Study Section.
2005, 2010	<i>Ad Hoc Member</i> , NIH study sections: Cognition & Perception; Child Psychopathology & Developmental Disabilities, Neurological Sciences & Disorders
2008	<i>Ad Hoc Reviewer</i> , National Science Foundation, Development & Learning Sciences.
2007-	<i>Tenure/Promotion External Reviewer</i> , Medical College of Wisconsin; Georgia State Univ; Baylor College of Medicine; University of Cincinnati.
2006-2007	<i>Ad hoc Grant Reviewer</i> , Spencer Foundation.
2005	<i>Ad hoc Grant Reviewer</i> , Calgary Health Region, Perinatal Research Funding Competition.
2004	<i>Grant Reviewer</i> , Action Medical Research Council, UK.
2004	<i>Invited Grant Panelist/Consultant</i> , Family Life Project, The Pennsylvania State University, State College, PA.
2003	<i>Ad Hoc Grant Reviewer</i> , Wellcome Trust, Fellowship Programme, London, UK.
2002	<i>Ad Hoc Grant Reviewer</i> , PPP Foundation Trust, Child & Adolescents Programme, London, UK.
1999	<i>Ad Hoc Grant Reviewer</i> , Ontario Mental Health Foundation, Canada.
1998	<i>Grant Reviewer</i> , SIUSOM Central Research Committee.
1995	<i>Grant Reviewer</i> , University of Arizona Small Grants Program.

DISCIPLINE SERVICE & ADMINISTRATION:

2011	<i>Chair</i> , Paper Symposium, A Translational Approach to Better Characterizing the Multifaceted Role of Executive Control in Supporting Mathematics, Society for Research in Child Development, Montreal, Canada
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- 2009 *Chair*, Paper Symposium, “Translational Science: Using the Shape School to probe ontogeny, development, and its deviations.” International Neuropsychological Society Meeting, Atlanta, GA.
- 2009 *Chair*, Paper Symposium, “Why Preschool Executive Control Matters: Its Role in Role in Academic Proficiency”. Society for Research in Child Development. Denver, CO.
- 2008 *Organizer*, Paper Symposium, "Critical periods: Impact of early exposures on outcomes in infancy and early childhood. International Conference on Infant Studies, Vancouver, BC, Canada.
- 2007 *Chair*, Paper Symposium, “Prenatal Tobacco Exposure: Impact on Cognitive and Emotional Processes across Development.” American Psychological Association meeting, San Francisco, CA.
- 2006-2008 *Member*, Continuing Education Committee, International Neuropsychological Society.
- 2005 *Member*, Society for Research in Child Development Program Committee.
- 2005 *Chair*, Poster Symposium, “Neurocognitive Bases of Mathematics Abilities”. Joint meeting of the International Neuropsychological Society and British Psychological Society, Neuropsychology section meeting, Dublin, Ireland.
- 2004 *Guest Editor*, Developmental Neuropsychology Special Issue: Using Developmental, Cognitive, & Neuroscience Approaches to Understand Executive Control in Children.
- 2003 *Co-Chair* (with R. Bull, Ph.D.), Poster Symposium, “Executive Function Skills in Young Children: Measurement and Application.” Society for Research in Child Development meeting, Tampa, FL.
- 2003 - 2004 *Member*, International Neuropsychological Society Program Committee.
- 2003 - 2004 *Co-Chair*, APA Division 40 Program Committee.
- 2002 *Chair*, Paper Symposium “Using Developmental Neuroscience Approaches to Understand Preschool Executive Functions”, International Neuropsychological Society meeting, Toronto, ON, Canada.
- 2000 – 2004 *Member*, APA Division 40 Program Committee.
- 2001- 2003 *Mentor*, Women in Neuropsychology Program. Protegee: June Yu, Ph.D.

Ad Hoc Reviewer (1996-) Journals: *Developmental Psychology*, *Journal of the International Neuropsychological Society*, *Developmental Science*, *Applied Neuropsychology*, *Journal of Pediatric Psychology*, *Psychological Science*, *Neuropsychologia*, *Developmental Neuropsychology*, *Journal of Attention Disorders*, *Journal of Experimental Child Psychology*, *Child Development*, *Neuropsychology*, *Journal of Child Psychiatry & Psychology*, *The Clinical Neuropsychologist*, *Pediatrics*, *Psychological Assessment*, *Cognitive Brain Research*, *Child Neuropsychology*, *Perceptual & Motor Skills*, *Journal of Perinatology*, *Current Directions in Psychological Science*, *Psychological Bulletin*.

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:

International Neuropsychological Society	American Association for the Advancement of Science
Society for Research in Child Development	American Psychological Association
Society for Neuroscience	Sigma Xi Cognitive Neuroscience Society

PUBLICATIONS:

REFEREED JOURNAL ARTICLES:

Fang, H., Johnson, C., Stopp, Wiebe, S.A., Wakschlag, L.S., & **Espy, K.A.** (in press). Prenatal Tobacco Exposure and Emergent Attention: Using Propensity Score Modeling to Minimize the Influences of Confounding Risks. Nicotine & Tobacco Research.

Wiebe, S.A., Clark, C.A.C., Chevalier, N., Sheffield, T., Nelson, J., & **Espy, K.A.** (in press). Determining the structure of executive control in 3-year-old children: Further evidence for unity. Journal of Experimental Child Psychology.

Bull, R.B., **Espy, K.A.**, Wiebe, S.A., Sheffield, T.D. & Nelson, J.M. (in press). Using confirmatory factor analysis to understand executive control in preschool children: Sources of variation in emergent mathematic skills. Developmental Science.

Fang, H., **Espy, K.A.**, Stopp, C., & Johnson, C. (in press). A New Look at Tobacco Exposure during Pregnancy Using Fuzzy Clustering. Neurotoxicology & Teratology

Chevalier, N., Wiebe, S. & **Espy, K.A.** (in press). Switch detection in preschoolers' cognitive flexibility. Journal of Experimental Child Psychology.

Espy, K.A., Stopp, C., Wiebe, S. & Respass, J., Fang, H., & Johnson, C. (in press). Prenatal Tobacco Exposure: Developmental Outcomes in the Neonatal Period. Developmental Psychology

Espy, K.A., Wiebe, S.A., Sheffield, T.D., Clark, C.A.C., & Moehr, M. (2011). Executive control and dimensions of problem behaviors in preschool children. Journal of Child Psychology & Psychiatry, 33 33-46.

Fang, H., Rizzo, M., Wang, H., **Espy, K.A.**, Wang, Z. (2010). A new non-linear classifier with a penalized signed fuzzy measure using effective genetic algorithm. Pattern Recognition, 43, 1393-1410.

Espy, K.A., Fang, H., Charak, D., Minich, N. & Taylor, H.G. (2009). Growth mixture modeling of academic achievement in children of varying birth weight risk. Neuropsychology, 23, 460-474.

Nelson, M.M., & **Espy, K.A.** (2009). Low-level lead exposure and contingency-based responding in preschoolers: An exploratory study. Developmental Neuropsychology, 34, 494-506.

Chacko, A., Wakschlag, L., Hill, C., Danis, B., & **Espy, K.A.** (2009). Viewing preschool disruptive behavior disorders and ADHD through a developmental lens: What we know and what we need to know. Child & Adolescent Psychiatric Clinics of North America, 18, 627-644.

Taylor, H.G., **Espy, K.A.**, & Anderson, P.J. (2009). Mathematics Deficiencies in Children with Very Low Birth Weight or Very Preterm Birth. Developmental Disabilities Research Reviews, 15, 52-59.

Fang, H., **Espy, K.A.**, Rizzo, M., Stopp, C., Wiebe, S., & Stroup, W. (2009). Using Integrated Approach to Identify Growth Patterns in Longitudinal Designs with Inflated Missing Data. International Journal of Information Technology and Decision Making, 8, 491-513.

Wiebe, S.A., **Espy, K.A.**, Stopp, C., Huggenvik, J., Gilbert, D., & Jameson, T. (2009). Genetics of self regulation across development: D2 dopamine receptor genotype and prenatal tobacco exposure. Developmental Psychology, 45, 31-44.

Kiselev, S., **Espy, K.A.**, Sheffield, T. (2009). Age-related differences in reaction time task performance in young children. Journal of Experimental Child Psychology, 102, 150-166.

Fang, H., Brooks, G. P., Rizzo, M.L., **Espy, K.A.**, & Barcikowski, R.S. (2009). Power of models in longitudinal study: Findings from a full-crossed simulation design. Journal of Experimental Education, 77, 215-254.

Bull, R.B., **Espy, K.A.**, & Wiebe, S.W. (2008). Short-term memory, working memory and executive functioning in preschoolers: Longitudinal predictors of mathematical achievement. Developmental Neuropsychology, 33, 205-228.

Fang, H., Brooks, G. P., Rizzo, M. L., **Espy, K. A.**, & Barcikowski, R. S. (2008). A Monte Carlo power analysis of traditional repeated measures and hierarchical multivariate linear models in longitudinal data analysis. Journal of Modern Applied Statistical Methods, 7, 101-119.

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. (2007). Perinatal pH and Neuropsychological Outcomes at age 3 years in children born preterm: An Exploratory Study. Developmental Neuropsychology, 32, 669-682.

Espy, K.A., Bull, R.B., Martin, J. & Stroup, W. (2006). Measuring the development of executive control with the Shape School. Psychological Assessment, 18, 373-381.

Espy, K.A. & Bull, R.B. (2005). Inhibitory processes in young children and individual variation in short-term memory. Developmental Neuropsychology, 28, 669-688.

Crawford, J.S., **Espy, K.A.**, Isquith, P.K. & Gioia, G.G. (2005). Assessment of Executive Functions in Preschool Aged Children. Mental Retardation and Developmental Disability Research Reviews, 11, 100-104.

Espy, K.A. & Cwik, M.F. (2004). The Development of a Trail Making Test in Young Children: The TRAILS-P. The Clinical Neuropsychologist, 18, 411-422.

Espy, K.A., Molfese, V.J., Molfese, D.L., & Modglin, A. (2004). Development of Auditory Event-Related Potentials in Young Children and Relations to Word-Level Reading Abilities at Age 8 Years. Annals of Dyslexia, 54, 9-38.

Espy, K.A., McDiarmid, M.D., Cwik, M.F., Senn, T.E., Hamby, A., & Stalets, M.M. (2004). The contributions of executive functions to emergent mathematic skills in preschool children. Developmental Neuropsychology, 26, 465-486.

Senn, T.E., **Espy, K.A.**, & Kaufmann, P.M. (2004). Using path analysis to understand executive function organization. Developmental Neuropsychology, 26, 445-464.

Isquith, P.K., Gioia, G., & **Espy, K.A.** (2004). Executive functions preschool children: Examination through everyday behavior. Developmental Neuropsychology, 26, 403-422.

Espy, K.A. (2004). Introduction to the Special Issue: Using Developmental, Cognitive, and Neuroscience Approaches to Understand Executive Control in Young Children. Developmental Neuropsychology, 26, 379-384.

Bull, R., **Espy, K.A.**, & Senn, T.E. (2004). A Comparison of Performance on the Towers of London & Hanoi in Young Children. Journal of Child Psychology and Psychiatry, 45, 743-754.

Espy, K.A. & Senn, T.E. (2003). The Incidence and Correlates of Breast Milk Feeding in Hospitalized Preterm Infants. Social Science & Medicine, 57, 1421-1428.

Espy, K.A., Molfese, V.J., DiLalla, L., (2003). Effects of environment on intelligence in children: Growth curve modeling of longitudinal data. MENSA Research Journal, 34, 24-52. Reprinted from "Effects of environment on intelligence in children: Growth curve modeling of longitudinal data" in Merrill Palmer Quarterly, 47, 42-72 (2001).

Senn, T.E. & **Espy, K.A.** (2003). Effects of neurobehavioral assessment on neonatal feeding and weight gain in preterm infants. Journal of Developmental & Behavioral Pediatrics, 24, 1-4.

Gioia, G.G., Isquith, P.K., Retzlaff, P., & **Espy, K.A.** (2002). Confirmatory Factor Analysis of the BRIEF in a Clinical Sample. Child Neuropsychology, 8, 249-257.

Espy, K.A., Stalets, M.M., McDiarmid, M.D., Senn, T.E., Cwik, M.F. & Hamby, A. (2002). Executive Functions in Preschool Children Born Preterm: Application of Cognitive Neuroscience Paradigms. Child Neuropsychology, 8, 83-92.

Espy, K.A. & Hamby, A.F. (2002). "Getting into the mouths" of preschoolers: A method for obtaining buccal samples for later genotyping. Developmental Neuropsychology, 21, 197-200.

Espy, K.A., Kaufmann, P.M., Glisky, M.L. & McDiarmid, M.D. (2001). New procedures to assess executive functions in preschool children. The Clinical Neuropsychologist, 15, 46-58.

Espy, K.A., Molfese, V.J., & DiLalla, L.F. (2001). Effects of environmental measures on intelligence in young children: Growth curve modeling of longitudinal data. Merrill Palmer Quarterly, 47, 42-73.

Espy, K.A., Moore, I.M., Kaufmann, P.M., Kramer, J., Matthay, K., Hutter, J. (2001). Chemotherapeutic CNS prophylaxis and neuropsychologic change in children with Acute Lymphoblastic Leukemia: A prospective study. Journal of Pediatric Psychology, 26, 1-9.

Espy, K.A., Francis, D.J. & Riese, M.L. (2000). Prenatal cocaine exposure and prematurity: Developmental growth. Developmental and Behavioral Pediatrics, 21, 264-272.

Moore, I.M., **Espy, K.A.**, Kaufmann, P.M., Kramer, J., Kaemingk, K., Hutter, J., Matthey, K., Miktova, P., Mollova, N., Kaspar, N., Pasvogel, A., Locke, C.J., Schram, K., Wara, W. (2000). Cognitive consequences and central nervous system injury following treatment for childhood leukemia. Seminars in Oncology Nursing, 16, 279-290.

Espy, K.A., Kaufmann, P.M., McDiarmid, M., & Glisky, M.L. (1999). Executive functioning in preschool children: A-not-B and Other Delayed Response Format Task Performance. Brain and Cognition, 41, 178-199.

Fuchs, K.F., Hannay, H.J., Huckeba, W.M., & **Espy, K.A.** (1999). The construct validity of the Continuous Recognition Memory Test. The Clinical Neuropsychologist, 13, 54-65.

Espy, K.A., Kaufmann, P.M., & Glisky, M.L. (1999). Neuropsychologic outcome in toddlers exposed to cocaine in utero: A preliminary study. Developmental Neuropsychology, 15, 447-460.

Molfese, D.L., Molfese, V.J., & **Espy, K.A.** (1999). The predictive use of event related potentials in language development and the treatment of language disorders. Developmental Neuropsychology, 16, 373-377.

Espy, K.A., Riese, M.L., & Francis, D.J. (1997). Neurobehavior in preterm neonates exposed to cocaine, alcohol, and tobacco. Infant Behavior and Development, 20, 297-309.

Espy, K. A. (1997). The Shape School: Assessing executive function in preschool children. Developmental Neuropsychology, 13, 495-499.

Fletcher, J.M., **Espy, K.A.**, Francis, D.J., Davidson, K.C., Rourke, B.P., & Shaywitz, S.A. (1989). Comparison of cut-off score and regression based definitions of reading disability: Are discrepancy-based criteria meaningful? Journal of Learning Disabilities, 22, 334-338.

UNDER REVIEW:

Abubakar, A., Holding, P., Newton, C., Van Baar, A., Van de Vivjer, **Espy, K.A.** (submitted). Performance of Children Prenatally Exposed to HIV on the A-not-B task in Kilifi, Kenya.

McClellan, S., Wiebe, S., Dodd, M., Smith, K., Hibbing, J. & **Espy, K.A.** (in revision). The Politics of Attention.

Chevalier, N., Sheffield, T., Nelson, J.M., Clark, C.A.C., Wiebe, S.A. & **Espy, K.A.** (submitted). Underpinnings of the costs of flexibility in preschoolers: The roles of inhibition and working memory. Developmental Neuropsychology

Taylor, H.G, Klein, N., Anselmo, M., Minich, N., **Espy, K.A.**, & Hack, M. (submitted). Early learning problems in extremely preterm children. JAMA.

BOOK CHAPTERS & TECHNICAL REPORTS:

Espy, K.A., Bull, R.B., Kaiser, H., Banet, M., & Martin, J. (2008). Methodological issues in the study of executive control development in preschool children. In V. Anderson, R. Jacobs, & P. Anderson (Eds.), Executive Functions and the Frontal Lobes (pp. 105-122) New York, NY: Taylor & Francis.

Wang, H, Fang, H, **Espy, K. A.**, Peng, D. & Sharif, H (2007). A Bayesian Multilevel Modeling Approach for Data Query in Wireless Sensor Networks. In Computational Science-ICCS 2007, pp. 859-866, Berlin/Heidelberg: Springer-Verlag.

Bull, R.B. & **Espy, K.A.** (2006). Working memory, executive functions, and children's mathematics. In S. Pickering (Ed.), Working Memory and Education (pp. 94-116), San Diego, CA: Academic Press.

Espy, K.A. & Kaufmann, P.M. (2002). Individual differences in the development of executive functions in children: Lessons from Delayed Response and A-not-B tasks. In: D.L. Molfese & V. Molfese (Eds.), Developmental Variations in Learning: Applications to Social, Executive Function, Language and Reading Skills (pp. 113-137), Mahwah, NJ: Erlbaum.

Espy, K.A. (1995). Project CAMI. Center for Substance Abuse Prevention, SAMSHA.

Francis, D.J., **Espy, K.A.**, Rourke, B.P., & Fletcher, J.M. (1991). Validity of intelligence test scores in the definition of learning disability: A critical analysis. In: B. P. Rourke (Ed.), Neuropsychological Validation of Learning Disability Subtypes, New York: Guilford.

STANDARDIZED TEST INSTRUMENTS:

Gioia, G., **Espy, K.A.**, & Isquith, P.K. (2003). *Behavior Rating Inventory of Executive Function – Preschool (BRIEF-P)*. Lutz, FL: PAR.

INVITED PRESENTATIONS:

RESEARCH ADMINISTRATION:

- 2010 “Lessons learned from sustaining a federally funded research program in the current climate”. Paper presented at the Merrill Conference for Advanced Studies, Lawrence, KS.
- 2010 “Funding opportunities at NIDA”. NIDA Symposium, International Neuropsychological Society Annual Meeting, Acapulco, Mexico.
- 2009 “Grant applications as a tool for growing science programs and facilities”. Paper presented at the Tradeline College & University Science Facilities Conference, St. Petersburg, FL (with G. Lattig, T. Reynolds, & A. Stepp, Clark Enersen Partners).
- 2009 “Designing an intelligent landscape: A model for integrated climate-change effects assessment in the Greater Platte River Basins”. Paper presented at the 2009 Platte River Basin Science & Resource Management Symposium, Kearney, NE (with R. Swanson, R. Zelt, M. Norby)
- 2007 “Privatizing Public Research Universities: The UNL Experience”. Paper presented at the Merrill Conference for Advanced Studies, Valley Farm, KS.
- 2006 “Research Synergies at University of Nebraska-Lincoln”, US Strategic Air Command Staff, University of Nebraska-Omaha, Omaha, NE.

FEDERAL & STATE RELATIONS:

- 2010 “Nebraska Tobacco Settlement Research Funding: Reducing health disparities through research at UNL” State of Nebraska Office of Health Disparities and Health Equity, Omaha, NE.
- 2004 “Center for Integrated Research in Cognitive & Neural Sciences”. Illinois Congressman Jerry Costello Staff, Stone Center, Carbondale, IL

KEYNOTE / MAJOR ADDRESS:

- 2010 “Structure, Measurement, and Development of Preschool Executive Control”. NIH/NICHD Invited Workshop, Bethesda, MD.
- 2009 “Development of Executive Control in Preschool Children” Alexander Graham Bell Foundation, Symposium, St. Louis, MO.
- 2004 “Executive Control in Preschool Children”. British Psychological Society, Developmental Section Conference, Leeds, UK.

INTERNATIONAL SCIENTIFIC CONFERENCES:

- 2008 “Development of Executive Control in Preschoolers”. Brain Development & Learning Conference, University of British Columbia, Vancouver, B.C., Canada.

- 2005 "Development of Executive Control in Young Children". Frontal Lobe Functioning: Fundamentals & Interventions Conference, Vrije University, Amsterdam, Netherlands.
- 2004 "Measurement of Executive Functioning in Typical and Atypical Development". Symposium Discussant, International Neuropsychological Society meeting, Brisbane, Australia.
- 2004 "Consequences of White Matter Injury in Childhood". Symposium Discussant, International Neuropsychological Society meeting, Brisbane, Australia.

NATIONAL SCIENTIFIC CONFERENCES:

- 2010 "Preschool Executive Control Matters: A Substrate of Emerging Academic and Behavior Competence". Jean Piaget Society, St. Louis, MO.
- 2007 "Prenatal Tobacco Exposure: Precursor Cognitive Substrates & Emergent Problem Behaviors". NIDA Symposium, American Psychiatric Association Annual Meeting, San Diego, CA.
- 2006 "Development of Executive Control in Preschool Children and Application to Clinical Practice". West-Coast Neuropsychology Conference, University of California San Diego, CA.
- 2004 "Executive control and mathematics in young children". In Honor of Dr. Rita Rudel, "Reflections on Developmental Neuropsychology: Past, Present, and Future" Conference. Manhattanville College, Purchase, NY.
- 2004 "Prenatal Tobacco Exposure: Perinatal & Genetic Risks". NIDA conference, "Long-term follow-up of prenatal drug exposure: Advances, challenges, and opportunities", Bethesda, MD.
- 2004 "Psychometric Approaches to Measuring Executive Control in Young Children". Pennsylvania State University Conference, "Emerging Self-Regulation: The Measurement of Executive Function in Early Childhood", State College, PA.
- 2002 "Neuropsychological Outcome in the Shaken Baby Syndrome survivor: Current Research Findings". 10th Annual Brain Injury Symposium, Ohio Brain Injury Association, Columbus
- 1998 "Early Intervention Strategies for Infants and Children Exposed prenatally to drugs and alcohol". 9th Annual Developmental & Behavioral Pediatrics Conference, SIUSOM, Springfield, IL
- 1998 "The predictive use of event related potentials in language development and the treatment of language disorders". NIH conference, "Dendritic Mechanisms in Mental Retardation & Developmental Disabilities", Bethesda, MD (with D. & V. Molfese).
- 1998 "Clinical perspectives on executive function development in infancy". Developmental Neuropsychology Group, International Society for Infant Studies, Atlanta, GA.

INTERNATIONAL UNIVERSITY:

- 2011 "Measurement, Structure, and Development of Executive Control in Preschool Children". Institute of Health Sciences, Catholic University of Portugal, Lisbon, Portugal.
- 2004 "The development of executive control in preschool children". Department of Psychology, University of Warwick, Warwick, UK.
- 2004 "The development of executive control in young children". Department of Psychology, St. Andrews University, St. Andrews, Scotland.
- 2002 "Organization and development of executive functions in preschool children". Visiting Scholar Lecture, University of Aberdeen, Department of Psychology, Scotland, UK.

NATIONAL UNIVERSITY:

- 2007 "Development of executive control in preschool children and clinical applications". Medical College of Wisconsin/University of Wisconsin-Milwaukee symposium. Milwaukee, WI
- 2005 "The Development of Executive Control in Preschoolers". Carolina Consortium for Human Development, Center for Developmental Science, University of North Carolina-Chapel Hill, Chapel Hill, NC.

- 2004 "The Nature of Executive Control in Young Children". Grand Rounds, Department of Psychiatry (Child Psychiatry), University of Chicago Medical School.
- 2004 "The development of executive control in young children". Sangamon Society for Neuroscience. & Department of Pharmacology, SIUSOM, Springfield, IL.
- 2003 "Tiny minds, complex brains: The emergence of executive control out of chaos". Ball State University, Department of Psychology, Muncie, IN.
- 1999 "Assessment of Executive Functions in Young Children". Division of Psychology, Section of Neuropsychology, Children's Hospital Medical Center, Cincinnati, OH.

COMMUNITY:

- 2010 Presentation, "Preschool Executive Control: A Critical Substrate for Self-Regulation and School Readiness". Summit on Research in Early Childhood, Lincoln, NE.
- 2003 Radio Interview, WSIU, "Prenatal Tobacco Exposure".
- 2001 Television Interview, WSIL-TV, "Preschool Problem Solving".
- 2000 "Moms, Babies, & Drugs: A bad combination". SIUC Chapter of the Society for Neuroscience.
- 2000 Television Interview, WSIU-TV, "Mothers, Babies, & Drugs".
- 1994 "Effects of familial substance abuse on the young child". LaFrontera Inc, Tucson, AZ.
- 1993 "Effects of prenatal cocaine exposure on infant development: From the research lab to clinical service". CODAC Behavioral Services, Tucson, AZ.

TEACHING ACTIVITIES:

MENTORED POST-DOCTORAL FELLOWSHIP AWARDS:

- 2010 *Fellowship Host*, Soledad Segretin, Unidad de Neurobiología Aplicada, Consejo Nacional de Investigaciones Científicas y Técnicas, Buenos Aires, Argentina.
- 2010 *Nelson Butters Award*, International Neuropsychological Society, Best conference paper by a post-doctoral fellow. Caron A.C Clark.
- 2006 *Fellowship Host*, D. Carroll, Ph.D. British Academy Trust.
- 2005 *Nelson Butters Award*, International Neuropsychological Society, Best Conference paper by a post-doctoral fellow. Sandra Wiebe.
- 2004-2005 *Fellowship Host*, S. Kiselev, Ph.D. International Brain Research Organization. Ural State University, Yekaterinaburg, Russia.
- 2004 *Fellowship Host*, N. Argollo Vieira, M.D., Foundation for the Coordination of Higher Education and Graduate Training, Universidade Federal Da Bahia, Brazil.

MENTORED UNDERGRADUATE & GRADUATE STUDENT AWARDS:

- 2010 M. Martinez, NIH Diversity supplement award for pre-doctoral study (3 year). \$147,191
- 2005- S. MacLean; B. Carlson; A. Knezevic; T. Steiner; A. McDonald; L. Taylor; X. Li. UCARE Undergraduate Research Awards (2 year).
- 2002-2005 B. Liti; E. Ballta; A. Von Lanken; Undergraduate Research Associate, \$3400.
- 2004 P. Tomalski. International Fellowship for Advanced Study, Warsaw University, Poland.
- 2004, 2001 K. Moshier, J. Smith, D. Mitchell, J. Tyler, L. Scism, N. Rao, SIUSOM Mentored Professional Enrichment Experience (MPEE) Awards
- 2003 T. Senn, M.A., "Lactation Persuasion Intervention, So. Illinois Healthcare \$1590.
- 2001 A. Hamby: SIUC Undergraduate Research/Creativity Award, \$1500.
- 2000, 1999 M. (Meade) Stalets, M.A.; M. McDiarmid, M.A; SIU University Women's Professional Advancement/Women's Studies Juried Competition, \$600.

2000 M. (Meade) Stalets, M.A. Sigma Xi, Grants-in-Aid of Research Award, \$300.

STUDENT COMMITTEES:

Chair:

K. Kelsey (UNL)	Masters	2010
M. Nelson (SIU)	Doctoral, Masters	2002, 1998
T. Senn (SIU)	Doctoral	2003
M. Ellefson (SIU)	Doctoral, Masters	2002, 2000
K. Wanke (SIU)	Doctoral	2000
M. Cwik (SIU)	Masters	2002

Member:

M. Ortman (UNL)	Doctoral	Current
J. Babl (UNL)	Doctoral	Current
P. Hill (UNL)	Doctoral	2010
A. Johnson (SIU)	Masters	2005
B. Wiens (SIU)	Doctoral	2003
J. Woodward (SIU)	Doctoral	2002

Reader:

L. Pangnadasa	Doctoral	University of Melbourne	2001
D. Smidts	Doctoral	University of Melbourne	2003
R. Stargatt	Doctoral	University of Melbourne	2004
M. Fuchs	Doctoral	Seattle Pacific University	2006
K. Parker	Doctoral	Victoria University	2005
Y. Landau	Doctoral	Ben-Gurion University	2008
C. Clark	Doctoral	University of Canterbury	2008

Current Positions of Previous Graduate Students & Post-Doctoral Fellows:

Melanie M. Nelson, Ph.D.	University of Oklahoma Health Sciences	Assistant Professor
Kay Wanke, Ph.D.	NIH Office of Behavior & Social Science Research	Health Scientist Administrator
Michelle Ellefson, Ph.D.	Cambridge University, UK	Lecturer
Theresa Senn, Ph.D.	Syracuse University	Research Assistant Professor
Mary Cwik, Ph.D.	Johns Hopkins University Medical School	Assistant Scientist
David Charak, Ph.D.	Learning Point Associates, Inc.	Project Director
Jessica Martin, Ph.D.	Cincinnati Children's Hospital	Clinical Assistant Professor
Sandra Wiebe, Ph.D.	University of Alberta	Assistant Professor
Abigail Johnson, Ph.D.	University of Cincinnati Medical School	Postdoctoral Fellow
Hua Fang, Ph.D.	University of Massachusetts Medical School	Assistant Professor

DIDACTIC INSTRUCTION:

Southern Illinois University

2001, 2004	Mentor, Mentored Professional Enrichment Experience
1999 - 2005	Member, Sensorimotor System and Behavior Block Design Team. Developed Tutor Guides for Case Modules & Mini-cases; Assisted DxR Fetal Alcohol Syndrome case development; Co-Designed Depression Mini-cases; Case Manager, Muscular Dystrophy case. Designed and managed Cortical Mini-cases; Developed evaluation.
2000 - 2002	Instructor, Neuroanatomy Laboratories. Sensorimotor System & Behavior Block.
1998 - 2002	Instructor/Tutor, Sensorimotor System and Behavior Block.
1996 - 2005	Instructor, Psyc 597, Preprofessional Training; Psyc 593, Research in Psychology; Psyc 391/392, Individual Project; Psyc 589, Brain & Cognitive Science Pro-seminar series.
2000	End of Sequence Tutor. Facilitated tutor group (2 week unit), provide training in assessment skills (history & physical with standardized patients), provided didactic resource sessions, participated in end of unit student evaluations.

- 1998 - Instructor, Organized Didactic Resource Sessions: Introduction to Depression; Intelligence & Childhood Disorders; Alcoholism and Substance Abuse; Organization of Memory; Prenatal Substance Exposure & Cognitive Development
- 1998 Instructor, Psyc 489, Mothers, Babies, & Drugs.
- 1998 - 1999 Clinical Supervisor, M. McDiarmid (Nelson), M.A., trainee.
- 1997 Instructor, Psyc 585, Clinical Neuropsychology in Early Development.
- 2000 - 2002 Instructor, Sickle Cell Anemia, Fetal Alcohol Syndrome, Alcoholism, Muscular Dystrophy
- 2000 - Mini-cases: Vision, Cortical Function, Mental Illness, Reproduction, Behavioral Medicine.
- 1996 - 1999 Instructor, SIUSOM Behavioral Science and Neuroanatomy Modules; Role Play Small Groups, Adult Mental Disorders I & II, Childhood Mental Disorders I, II; Hometown Physician, Addiction, Alcoholism & Treatment, Prenatal Substance Exposure, Cerebral Hemispheres, Neuroanatomy Laboratories, Empathy Groups.
- 1996 Instructor, Psyc 489, Infant Development; Psyc 590, Readings in Psychology
- 1997 - 2003 Guest Lecturer, Psyc 586, Clinical Research Seminar; Psyc 301, Child Development; Psyc 572, Brain & Cognitive Sciences Proseminar; Psyc 200, Gender & Diversity

University of Arizona College of Medicine:

- 1995 - 1996 Supervisor, APA Clinical Psychology Internship, Child Neuropsychology Rotation, Department of Psychiatry.
- 1994 - 1996 Instructor, APA Clinical Psychology Program, Clinical Neuropsychology Externship, Department of Psychology.
- Instructor, Behavioral Pediatrics Rotation. Department of Pediatrics.

INTERNATIONAL & NATIONAL SCIENTIFIC PRESENTATIONS: (*last 5 years shown; total = 135; 43 international, 92 national*)

K.A. Espy. (2011). A Developmental Cognitive Neuroscience Approach to Intervention: Understanding Executive Control Development to Inform Practice. Paper to be presented in the Roundtable Discussion Symposium, Society for Research in Child Development, Montreal, Canada.

Clark, C.A.C., & K.A. Espy. (2011). Executive Control and Pathways to Mathematical Competence in Preschool Boys and Girls. Paper to be presented at the Society for Research in Child Development meeting, Montreal, Canada.

K. Kelsey, C. Clark, J. Nelson, T. Sheffield, N. Chevalier, S. Wiebe, K.A. Espy. (2011). Predictors of Developmental Change in Motor Control Across the Preschool Period. Poster to be presented at the Society for Research in Child Development meeting, Montreal, Canada.

M. Martinez, J. Nelson, T. Sheffield, C. Clark, G. Carlo, & K.A. Espy (2011). Children's Temperamental Effortful Control and the Development of Working Memory in Preschool: The Moderating Role of Parenting. Poster to be presented at the Society for Research in Child Development meeting, Montreal, Canada.

J.M. Nelson, T. Sheffield & K.A. Espy. (2011). Executive Control in Early Preschool and Relation to Later Social Skills in the Preschool and Kindergarten Contexts. Poster to be presented at the Society for Research in Child Development meeting, Montreal, Canada.

N. Chevalier, T. Sheffield, & K.A. Espy (2011). The Role of Switch Detection in Task Switching at Preschool Age. Poster to be presented at the Society for Research in Child Development meeting, Montreal, Canada.

J.M. Nelson, T.D. Sheffield, N. Chevalier, C.A.C. Clark, S.A. Wiebe, & K.A. Espy. (2010). Early temperamental negative affectivity and anxiety symptoms at school entry: The moderating role of inhibitory control. Poster presented at the Kansas Conference in Clinical Child and Adolescent Psychology: Translating Research into Practice, Lawrence, KS.

K.L. Huber, L., Heiden, J. M., Nelson, N., Chevalier, C. Johnson, S.A. Wiebe, & K.A.Espy. (2010). *Cognitive assessment of inhibitory control among 3-year-olds: Relations with sadness and soothability in a prenatally-tobacco-exposed sample*. Poster presented at the Kansas Conference in Clinical Child and Adolescent Psychology: Translating Research into Practice, Lawrence, KS.

L.M. Heiden, K.Huber, N. Chevalier, J.M. Nelson, C. Johnson, S.A. Wiebe, & K.A. Espy. (2010). *Prenatal Tobacco Exposure and Assessment of Effects on Working Memory in Preschool*. Poster presented at the Kansas Conference in Clinical Child and Adolescent Psychology: Translating Research into Practice, Lawrence, KS.

J.M. Nelson, C.A.C. Clark, T. Sheffield, S. Wiebe, & K.A. Espy. (2010). Parental inconsistency and reactions to child distress: Effects on the development of inhibitory control in preschool. Poster presented at annual Association for Behavioral and Cognitive Therapies meeting, San Francisco, CA.

C.A.C. Clark & K.A. Espy. (2010). Longitudinal associations between preschoolers' emerging executive control and developing mathematical competence. Paper presented at the 40th Annual Meeting of the Jean Piaget Society, St Louis, MO.

S. Wiebe, C. Clark, N. Chevalier, T. Sheffield, J.M. Nelson, & K.A. Espy. (2010). Determining the structure of executive control in 3-year-old children: Unity or diversity? Poster presented at Development 2010: A Canadian Conference on Developmental Psychology, Ottawa, ON.

N. Chevalier, C. Clark, T. Sheffield, S. Wiebe, & K.A. Espy. (2010). Underpinnings of the Costs of Flexibility in Preschool Children: The Roles of Inhibition and Working Memory. Poster presented to the Cognitive Neuroscience Society meeting, Montreal, CA.

S. McLean, S. Wiebe, M. Dodd, K. Smith, J. Hibbing & K.A. Espy. (2010). Investigating ERP modulation to affect and congruity: Implications for political psychology. Poster presented at the Cognitive Neuroscience Society meeting, Montreal, CA.

C. Clark, K.A. Espy, N. Minich, J. Fang, & G. Taylor (2010). Neurological structure and associated trajectories of academic achievement amongst children of differing birth weights. Poster presented at the International Neuropsychological Society Annual Meeting, Acapulco, Mexico.

C. Clark, T. Sheffield, S. Wiebe, & K.A. Espy, (2010) An enriched home environment is associated with advanced early executive capabilities. Paper presented at the International Neuropsychological Society Annual Meeting, Acapulco, Mexico. **Nelson Butters Award, Best Post-doctoral Paper.**

L. Orchinik, G. Taylor, K.A. Espy, N. Minich, N. Klein, T. Sheffield, & M. Hack. (2010). Effects of extreme prematurity on executive function and other cognitive measures in kindergarten. Paper presented at the International Neuropsychological Society Annual Meeting, Acapulco, Mexico.

D. Washburn, M. Beran, T. Evans, & K.A.Espy (2009). Simians in the Shape School: A Comparative Study of Executive Function. Paper presented at the Psychonomic Society Annual Meeting, Boston, MA.

K.A. Espy, S. Wiebe, & T. Sheffield. (2009). Preschool executive control and emergent externalizing symptomatology: Insights learned through latent variable modeling. NIMH symposium paper presented at the annual meeting of the American Academy of Child & Adolescent Psychiatry.

S. Wiebe, K.A. Espy, C. Stopp, T. Sheffield, & K. Kelsey. (2009). Impact of prenatal tobacco exposure on early self regulation: Neurodevelopment in the first three years. NIDA symposium paper presented at the annual meeting of the American Academy of Child & Adolescent Psychiatry.

S. McLean, S. Wiebe, M.Dodd, J. Hibbing, K. Smith, & K.A. Espy, (2009). Are You Left Brained or Right Brained? Differences between Democrats and Republicans on a Political Flanker. Cognitive Neuroscience Society, San Francisco, CA.

K.A. Espy, A.Schutte, & S. Wiebe. (2009). Using Cognitive Science Tools to Elucidate the Mechanisms of Inattention in Preschoolers Born Preterm. International Neuropsychological Society, Atlanta, GA

- K.A. Espy, S. Wiebe, T. Sheffield. (2009). Developmental trajectories of executive processing on the Shape School. International Neuropsychological Society, Atlanta, GA
- K.A. Espy, S. Wiebe, & T. Sheffield. (2009). Test-retest reliability for new tasks to assess executive control in preschoolers. International Neuropsychological Society, Atlanta, GA
- K. Kelsey, K.A.Espy, L. Wakschlag, S. Wiebe, T. Sheffield. (2009). The impact of prenatal tobacco exposure on neuropsychological substrates of the dimensions of ADHD. International Neuropsychological Society, Atlanta, GA
- R. Bull, K.A. Espy, S. Wiebe, & T. Sheffield. (2009). Executive control and emergent maths skills in preschoolers: Understanding sources of individual variation. Symposium paper presented at the British Psychological Society Cognitive Section conference, Hertfordshire, UK.
- S. Wiebe, K. James, C. Stopp, N. Koziol, & K.A. Espy (2009). Regulation of attention and emotion at 6 months: Effect of prenatal tobacco exposure. Society for Research in Child Development meeting, Denver, CO
- A. Schutte, K.Espy, S. Wiebe, M. Ortmann. (2009). Influence of Distractors on Spatial Working Memory in Preterm and Fullterm Children. Society for Research in Child Development meeting, Denver, CO
- L. Taylor, A. McDonald, S. Wiebe, D. Carroll, & K.A. Espy. (2009). Set-shifting and stimulus conflict interact to influence 5-year-olds' performance accuracy and ERPs. Society for Research in Child Development meeting, Denver, CO
- K.A. Espy, Wiebe, S., Sheffield, T., Moehr, M., Bull, R. (2009). Executive control and Early Mathematics Skills in Preschoolers: Understanding Sources of Variation. Society for Research in Child Development meeting, Denver, CO
- K.A. Espy, H. Fang, C. Stopp, & N. Clayton. (2009). Impact of Prenatal Tobacco Exposure on Neonatal Regulation: Using Propensity Score Models to Adjust for Confounded Liability. Society for Research in Child Development meeting, Denver, CO
- K. Schoemaker, S. Wiebe, K.A. Espy, T. Bunte, M. & W. Matthys. (2009). Executive functions in preschool children with behavior problems. Society for Research in Child Development meeting, Denver.
- M. Ellefson, E. Blagrove, K. Espy, & N. Chater. (2008). Shape School's Assymetrical Switch Costs. Psychonomic Society Meeting, Chicago, IL.
- K.A. Espy, S.A. Wiebe, T. Sheffield, & M. Moehr. (2008). Social Context and Prefrontal Function in Preschoolers. Cognitive Neuroscience Society meeting, San Francisco, CA.
- S. A. Wiebe, D. J. Carroll, M. Herrington, S. Raber, & K. A. Espy (2008). Changing the rules at the drop of a hat: An ERP study of preschoolers' set-shifting ability. Cognitive Neuroscience Society meeting, San Francisco, CA.
- S.A. Wiebe, K. A., Espy, C. Stopp, J. Respass, T. Jameson, D. Gilbert, & J. Huggenvik, (2008). DRD2 genotype and prenatal exposure to tobacco interact to influence infant attention and reactivity. International Conference on Infant Studies, Vancouver, BC.
- K.A. Espy, C. Stopp, T. Jameson, D. Gilbert, S. Wiebe, J. Huggenvik, (2007). At the interface of attention and emotion: the role of genetics and prenatal tobacco exposure in the neonatal period. American Psychological Association annual meeting, San Francisco, CA.
- A. Johnson, S. Wiebe, & K.A. Espy. (2007). Executive Control from preschool through elementary using the Shape School. American Psychological Association meeting, San Francisco, CA
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