

## CURRICULUM VITAE

### **KIMBERLY ANDREWS ESPY, Ph.D.**

*Senior Vice President for Research, University of Arizona*

#### **ACADEMIC POSITIONS:**

- 2014- *Professor*, Departments of Psychology (College of Science) and of Psychiatry (College of Medicine), University of Arizona (UA).
- 2011- 2014 *Professor*, Departments of Psychology and of Special Education & Clinical Sciences, University of Oregon (UO).
- 2010 – 2011 *Charles Bessey Professor*, University of Nebraska-Lincoln (UNL)
- 2005 – 2011 *Professor*, Department of Psychology, UNL. Duties included direction of the Developmental Cognitive Neuroscience Laboratory.
- 2005 *Professor*, Department of Family & Community Medicine, Southern Illinois University School of Medicine (SIUSOM), *Cross-Appointment*, Department of Psychology, SIUC Clinical & Experimental Programs.
- 2002-2005 *Associate Professor*, SIUSOM; cross appointment, SIUC Department of Psychology.
- 1996-2002 *Assistant Professor*, SIUSOM; cross appointment, SIUC Department of Psychology. Duties included teaching neuroscience to medical students using the innovative, Problem-Based Learning curriculum, teaching undergraduate and graduate psychology students, and conducting basic and translational neuroscience research.

#### **EDUCATION & LICENSURE:**

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

#### **ADMISTRATIVE APPOINTMENTS:**

- 2014 - *Senior Vice President for Research, University of Arizona.*

As one of the 62 institutional members of the American Association of Universities (AAU) and classified as a Carnegie RU/VH university, the University of Arizona (UA) is the state's flagship comprehensive, land-grant, and space-grant university with two accredited medical schools. Founded in 1885, UA has approximately 43,000 students, 350+ academic programs, 2,600 faculty and 10,000 employees. With

more than \$600M in total research expenditures, the UA is ranked No. 21 in R&D expenditures among US public universities. The University and its related entities infuse over \$8B into the state economy each year, reach every state county and five tribal reservations, have over 240 industry R&D partners the collectively comprise \$120M in annual R&D activity, and support 1 of every 93 jobs in the state.

University-wide leadership responsibilities to advance academic research and innovation strategy and position, and as a member of the President's Senior Leadership team, shared responsibilities in overall university strategy; budget, finance, and facilities; philanthropy/UA Foundation; institutional compliance and risk; business analytics/institutional research; and information technology.

Academic responsibilities for university-wide and college research centers/institutes, post-doctoral affairs, four university museums, attendant faculty appointment and academic/review promotion processes for continuing status and research track faculty, and faculty research advancement programs such as start-up, internal grants and award matching mechanisms.

Administrative responsibilities include oversight of the university research and innovation enterprise, including research strategy and portfolio investment, research communication and marketing, research core facilities, research finance and administration services, research compliance services, strategic business initiatives, global research alliances, interdisciplinary fundraising, research-related reporting to the Arizona Board of Regents.

2011 - 2014 *Vice President for Research & Innovation (VPRI), University of Oregon.*

The University of Oregon (UO) was founded in 1876 as the state's flagship, comprehensive research university, is a member of AAU and is classified as a Carnegie RU/VH university. UO has approximately 24,500 students and 1500 faculty members, with graduate programs ranked in the top 20/20<sup>th</sup> percentile. University FY13 sponsored expenditures were \$120M. In the top 15 in licensing income/total research expenditures, UO led in university-derived innovation in educational technology.

University-wide leadership responsibility for academic research and innovation strategy and position, and as a member of President's Executive Leadership team, shared responsibilities in overall university strategy, budget and finance, philanthropy development, institutional compliance and risk.

Academic responsibilities included oversight of all interdisciplinary academic research centers/institutes, research faculty/staff appointments and academic review/promotion process for the 230+ research faculty, faculty research advancement programs such as start-up, internal grants and award matching mechanisms and joint responsibility for undergraduate research program. Innovation responsibilities included commercialization, technology transfer, and the development and operation of state-funded university-community accelerator and state-wide innovation network.

Administrative responsibilities included research core facilities, Research Compliance services, Sponsored Projects and Innovation Services.

2011 - 2014 *Dean of the Graduate School, University of Oregon.*

With approximately 3500 graduate students are enrolled in 45 Doctoral, 78 Masters, and 27 Certificate programs, responsibilities included supervision of the Graduate School services related to recruitment, admissions, professional development programming, graduate assistantship appointments, graduate degree & enrollment management, as well as administration of university wide fellowships, extramurally

funded traineeships, diversity programs, preparatory UO capstone experiences, graduate program review and other assessment processes, UO's interdisciplinary graduate degree and on-line master's degree programs.

2005 - 2011 *Associate Vice Chancellor for Research, University of Nebraska-Lincoln.*

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 RU/VH institution and member of the Committee on Institutional Cooperation, the academic arm of the Big Ten.

Responsibilities included facilitating large-scale interdisciplinary efforts and strategic research initiatives, research compliance programs, development and oversight of programs to advance faculty research, university-level Promotion Review for research track faculty. Worked closely with Vice Chancellor for Research & Economic Development and his team on all research matters, including budget, policy, planning, administration, facilities, communication, and economic development.

2010 - 2011 *Acting Dean of Graduate Studies, University of Nebraska-Lincoln*

With approximately 5000 students enrolled in 57 doctoral and 68 master's degree programs, responsibilities included oversight of graduate student recruitment, enrollment, and retention services, and graduate program review and other assessment processes, as well as undergraduate and graduate diversity programs (McNair, Summer REUs), new graduate degree program development, international and campus wide teaching assistant preparation, post-doctoral office, and professional development programs for UNL faculty (Preparing Future Faculty, Teaching Documentation).

2005 *Founding Director, Center for Integrated Research in Cognitive & Neural Sciences, Southern Illinois University School of Medicine.*

Southern Illinois University School of Medicine is a regional medical school with the central mission to train primary care physicians, where the 1<sup>st</sup> 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 first developed and implemented.

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, Southern Illinois University.*

As a competitively selected Administrative Intern under of the University Women's Professional Advancement Leadership Program, responsibilities included special projects for the Provost and Vice Chancellor for Research, including merit compensation policies, administration, and budget.

### **HONORS, AWARDS & LEADERSHIP:**

2018 - *AAAS Fellow* (Elected), American Association for the Advancement of Science  
 2013 *Burack Lectureship, University of Vermont*

- 2005 - *Fellow*, American Psychological Association, Division 40 Clinical Neuropsychology.
- 2005 Early Career Award, 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 Society Award
- 2001 Faculty Educator of the Year, SIUSOM Department of Psychiatry.
- 1981 – 1985 Rice University President’s Scholar (National Merit Finalist)

#### *NATIONAL / INSTITUTIONAL LEADERSHIP*

- 2017 - *Member*, Board of Directors, Association of Universities for Research in Astronomy, Washington, DC.
- 2017 - *Member*, Board of Directors, Association for the Accreditation of Human Research Protections Programs, Washington, DC.
- 2016- *Elected Member*, Board of Directors for the Institute for Research on Innovation and Science (IRIS), Ann Arbor, MI.
- 2016 - *Member*, Government - Industry - University Research Roundtable, National Academy of Sciences, Washington, DC.
- 2016 - *Member*, Challenge for Change Committee, Association of Public and Land Grant Universities (APLU). Washington, DC.
- 2016 - *Institutional Reviewer*, University of Melbourne Research Institutes.
- 2016, 2013 *Panel Member*, “All Things Research”. The Science Coalition and the American Association of Universities (AAU) Media Roundtable, Washington DC.
- 2015-2016 *Member*, Task Force on Laboratory Safety, Association of Public & Land Grant Universities
- 2015 *Reviewer*, Office of the Provost, University of Colorado-Boulder.
- 2015 *Reviewer*, College for Liberal Arts & Sciences, Emory University.
- 2014 - *Board Member & Founder’s Representative*, Large Binocular Telescope Corporation, Tucson, AZ.
- 2015- *Founders Representative (2016 -), Board Member (2015)*, Giant Magellan Telescope Organization, Pasadena, CA.
- 2013- *Executive Committee Member*, APLU Council on Research.
- 2013- 2016 *Planning Committee Member*, AAU Senior Research Officer Annual Meeting.

#### *STATE/COMMUNITY LEADERSHIP:*

- 2014 - *Member*, Board of Directors, Arizona Alzheimer’s Consortium, Phoenix, AZ.
- 2014 - *Member*, Board of Directors, Campus Research Corporation, Tucson, AZ.
- 2014 - *Member*, Bioscience Roadmap Steering Committee, Phoenix, AZ.

- 2015 - *Executive Committee Member*, Arizona Technology Council, Phoenix, AZ.
- 2014 - 2015 *Member*, AZBio Board of Directors, Phoenix, AZ.
- 2014 *Member*, Oregon Science & Technology Advisory Committee, United States House Representative Suzanne Bonamici.
- 2013-2014 *Member*, Executive Board of the South Willamette Valley Regional Accelerator & Innovation Network (RAIN), OR
- 2011- 2014 *Member*, Governor's Regional Solutions Committee, Southern Willamette Valley, OR
- 2011- 2014 *Technical Advisor*, State of Oregon Innovation Council, Portland, OR.
- 2011- 2014 *Member*, Oregon Nanoscience & Microtechnologies Institute Board of Directors
- 2011- 2014 *Member*, Oregon Built Environment and Sustainable Technologies Board of Directors
- 2011- 2014 *Member*, Oregon Climate Change Research Institute Advisory Board
- 2012- 2014 *Member*, Oregon Institute of Natural Resources Advisory Board
- 2004 - 2005 *Member*, Board of Directors, Shawnee Health Service, Carbondale, IL.
- 2003 - 2004 *Member*, SIUC Rainbow's End Child Development Center Board, Carbondale, IL.
- 1997 - 2000 *Member*, Citizens Advisory Council, Unity Point School District, Carbondale, IL.
- 1997 - 1998 *Member*, Citizen's Advisory Board, SIU Child Development Laboratories, Carbondale, IL.

#### *EXTRAMURAL RESEARCH LEADERSHIP:*

- 2013 *Scientific Quinquennium Reviewer*, United Kingdom Medical Research Council, Cognition & Brain Sciences Unit, Working Memory and its Disorders: Causes, Consequences & Interventions.
- 2012 *Co-Chair*, NIH Review Panel, Autism Center of Excellence: Networks, ZHD1 DRG-H 54
- 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:*

- 2012 *Invited Panelist*, American Psychological Association Science Leadership Conference.

- 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- 2014 *Editorial Board Member*, Assessment.
- 1999-2014 *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*, 3<sup>rd</sup> 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

#### **EXTERNAL ENGAGEMENT**

##### **INSTITUTIONAL:**

- 2014 “Reaching out for Research”, *Biz Tucson*, Summer edition  
<http://issuu.com/mcserres/docs/biztucsonsummer2017?e=4938104/49256496>
- 2017 Guest Editorial (with L. Neumayer), “UA Research helps Arizonans Breathe Easier”, *Arizona Republic*, May 31, 2017.
- 2016 Guest Editorial, “University of Arizona is open for business” *Arizona Daily Star*, December 20, 2016, [http://tucson.com/news/opinion/column/guest/kimberly-andrews-espy-university-of-arizona-is-open-for-business/article\\_454d32b5-051a-571e-a4f3-ea5fc3d3eca8.html](http://tucson.com/news/opinion/column/guest/kimberly-andrews-espy-university-of-arizona-is-open-for-business/article_454d32b5-051a-571e-a4f3-ea5fc3d3eca8.html)
- 2016 “University of Arizona’s ‘Roadmap’ to Success in Supporting Arizona’s Bioscience Goals”. Presentation, Flinn Foundation, Bioscience Roadmap Steering Committee Meeting, Phoenix, AZ.
- 2016 “University of Arizona Strategic Hiring Initiatives”, Panel presentation, Association of Public & Land Grant University Annual Meeting, Austin, TX.
- 2016 “Research Investments & Activity Priorities” Panel presentation, Flinn Foundation, Bioscience Roadmap Steering Committee Meeting, Phoenix, AZ.
- 2016 “Using Academic Analytics in Research Strategy: Case Studies from the University of Arizona”. Presentation, APLU Council for Research Summer Meeting, Morgantown, WV.
- 2016 “Women In STEM Leadership” Panel presentation, Arizona Technology Council, Tucson, AZ.
- 2015 “UA Broad Research Opportunities”. Presentation, Japanese Space Agency (JAXA). Tokyo, Japan.

- 2015 “Federal Agency Perspectives on Big Data”. Panel presentation, AAU Senior Research Officers Meeting, New Orleans, LA (with J. Olds, Assistant Director, NSF Biology Directorate; Philip Bourne, Associate Director for Data Science, NIH).
- 2015 “Managing Conflicts of Interest”, Panel presentation, Council on Research Policy & Graduate Education Summer Meeting, Park City, Utah. (with M. McClellan).
- 2014 “Interacting with the Graduate Dean“. Presentation, New VPR/Dean’s Workshop, Council on Research Policy & Graduate Education Summer Meeting, Oakland, CA2014
- 2014 “Advancing Research in a declining federal fiscal environment”, Panel presentation, Council on Research Policy & Graduate Education Summer Meeting, Oakland, CA. (with A. Cartwright, V. Chaitanaya)
- 2014 “Institution Investments in, and support of Research”. Panel Presentation, AAU Senior Research Officers Meeting, Laguna Beach, CA (with B. Entwisle).
- 2013 “Innovative Models of Graduate Education & Implications on Sponsored Research: Solutions? Pitfalls? Paths forward.” Panel Presentation, Council on Research Policy & Graduate Education Summer Meeting, Charlottesville, VA.
- 2012 Guest Viewpoint, “UO science building is far greater than its parts”, *Register-Guard*, 10/25/2012; <http://uoresearch.uoregon.edu/content/guest-viewpoint-uo-science-building-far-greater-its-parts>
- 2012 “Following the Money: Where is it taking us...The University of Oregon”. Panel presentation, Association of Public and Land Grant Universities annual meeting, Denver, CO.
- 2010 “Lessons learned from sustaining a federally funded research program in the current climate”. Presentation, the Merrill Conference for Advanced Studies, Lawrence, KS.
- 2010 “Funding opportunities at NIDA”. Presentation, NIDA Symposium, International Neuropsychological Society Annual Meeting, Acapulco, Mexico.
- 2009 “Grant applications as a tool for growing science programs and facilities”. Presentation, 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”. Presentation, 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”. Presentation, Merrill Conference for Advanced Studies, Valley Farm, KS.
- 2005 “Research Synergies at University of Nebraska-Lincoln”, Presentation, US Strategic Air Command Staff, University of Nebraska-Omaha, Omaha, NE.

#### *UNIVERSITY / FOUNDATION BOARDS:*

- 2017 “Proposed Rate/Fee Structure for the Arizona State Museum”. Arizona Board of Regents, Tucson, AZ.
- “Impact of University of Arizona’s TRIF Strategy”. Arizona Board of Regents, Research and Innovation Impact Committee, Flagstaff, AZ.
- “Proposed Rate/Fee Structure for the Arizona State Museum”. Arizona Board of Regents Business & Finance Committee, Flagstaff, AZ.

“UA: Doing More for Arizona” Arizona Board of Regents Research and Innovation Impact Committee, Flagstaff, AZ.

“Creating Tomorrow’s Innovation Today”, University of Arizona Foundation Board of Trustees & National Leadership Council Meeting, Tucson, AZ.

“Cultural Resource Management at the Arizona State Museum”, Arizona Board of Regents Business & Finance Committee, Tempe, AZ.

2016 “Creating Tomorrow’s Innovation Today”, Arizona Board of Regents Meeting, Annual Operational and Financial Review. Tucson, AZ.

“Technology & Research Initiative Fund 5-year Business Plans”, Arizona Board of Regents Business & Finance Committee, Flagstaff, AZ. (with W. Grabe, S. Panchanathan, C.Sampson)

“Technology & Research Initiative Fund Investment Strategy for the University of Arizona”, Arizona Board of Regents Meeting, Flagstaff, AZ.

2015 “Research @ UA”, UA Foundation Board of Trustees & National Leadership Council Meeting, Tucson, AZ.

2015 “Research Metrics Update on Never Settle Strategic Plan”, Arizona Board of Regents Business & Finance Committee, Flagstaff, AZ.

“Annual Research Report of the University of Arizona”, Arizona Board of Regents Meeting, Flagstaff, AZ.

“Innovation”, Arizona Board of Regents Meeting, Annual Operational and Finance Review, Tucson, AZ.

2014 “TRIF@UA”, Arizona Board of Regents Business & Finance Committee Meeting, Flagstaff, AZ.

#### *FEDERAL, STATE & COMMUNITY RELATIONS:*

2017 *Testimony*, Transfer of Mining & Mineral Resource Museum to the University of Arizona in support of SB1415, State of Arizona Senate Budget Committee, Phoenix, AZ.

2017 “The Role of Universities in Space Situational Awareness and Global Space Traffic Management”, House and Senate Armed Services Committee Staff Briefing, Washington, DC.

2016 “University of Arizona One Health Initiative”, Del E. Webb Foundation, Phoenix, AZ.

2016 “UA Leadership in Space Sciences Innovation: Today & Tomorrow”. Congressional Briefing, Cape Canaveral, FL.

2016 “Federal Research and its Impact on US Competitiveness”, APLU Council on Research advocacy briefings to House, Senate Science Committee Staff, Majority and Ranking, Washington, D.C.

2016 “UA Research and its Impact”, Briefing for United States House Representative Paul Gosar, Biosphere 2, Oracle, Arizona.

2016 “UA Research and National Defense”, Briefing for General Teague, Tucson, AZ.

2015 “UA Oro Valley”. *AG100*, Phoenix, AZ.

2013 “Community Impact of the University of Oregon”. Association of Oregon Counties. Eugene, OR.

2013 “Regional Accelerator and Innovation Network (RAIN)”;  
*Testimony*, State of Oregon Senate Business & Transportation Subcommittee, Salem, OR;



*Testimony*, State of Oregon Senate Ways & Means Committee, Salem OR

- 2013 “Basic Research and Role in Innovation”, APLU Council on Research advocacy briefings to House, Senate Science Committee Staff, Majority and Ranking, Washington, D.C.
- 2012 “Growing our local economy through development of the South Willamette Valley Technology Business Accelerator”;  
*Presentation*, Oregon Leadership Summit, Portland, OR.  
*Presentation*, Eugene Chamber of Commerce Executive Council, Eugene, OR.
- 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”. Briefing for Illinois Congressman Jerry Costello Staff, Stone Center, Carbondale, IL

### **UNIVERSITY SERVICE & ADMINISTRATION:**

*University of Arizona:*

- 2017- *Member*, Search Committee for the Senior Vice President for Health Sciences
- 2017- *Member*, Ad Hoc Planning Committee for UA Downtown Innovation & Engagement Hub
- 2016- *Member*, Joint (UA, Banner Health) Academic Medicine Committee for Research and Innovation
- 2016 *Chair*, Search Committee for Chief Information Office & Vice Provost for University Information Technology
- 2016- *Member*, University Strategic Planning & Budget Advisory Committee
- 2016- *Member*, University Space & Facilities Administrative Advisory Committee
- 2016- *Member*, Internal Audit Review Board
- 2015 - *Member*, Institutional Compliance Steering Committee
- 2015 - *Member*, Institutional Information Technology Steering Committee
- 2014 - *Member*, President’s Senior Leadership Team
- 2014 - *Member*, University Development Council
- 2014 - *Member*, Provost’s Council
- 2014 - *Member*, University Finance Team/Finance Administrative Advisory Committee
- 2014 - *Member*, University Analytics & Institutional Research Steering Committee
- 2014- *Member*, University Information Technology Executive Committee
- 2014- *Member*, Deans + Development Committee / University Development Program Deans & Directors Development Strategy Committee
- 2014 - *Institutional Official*
- 2014 - *UA Representative*, AAU Senior Research Officers
- 2014 - *UA Representative*, APLU Council on Research

2014 - *UA Representative, Universities Research Association, Inc.*  
 2014 - 2015 *Member, President's Cabinet.*

*University of Oregon:*

2013 - 2014 *Member, Budget Advisory Group*  
 2013 - 2014 *Member, SB 270 (Independent Board) Implementation Team*  
 2013 - 2014 *Member, University Messaging Work Group*  
 2013 - 2014 *Co-Chair, UO Risk Management & Compliance Committee*  
 2013 - 2014 *Member, Campus Technology Council*  
 2013 - 2014 *Member, Human Resource Governance Committee*  
 2013 - 2014 *Member, Faculty Collective Bargaining Implementation Team*  
 2012 - 2013 *Member, Graduate Education Advisory Group*  
 2012 - 2013 *Member, Metrics/Benchmarking Advisory Group*  
 2012 *Member, Erb Memorial Student Union Project Advisory Group*  
 2012 - 2014 *Member, Space Charges Advisory Group*  
 2012 - 2013 *Member, Faculty Union Negotiation Management Team*  
 2011 - 2014 *Member, Executive Leadership Team*  
 2011 - 2014 *Member, Academic Leadership Team / Dean's Working Group*  
 2011 - 2014 *Member, Space Advisory Group*  
 2011 - 2014 *Member, Ex-Officio, Graduate Council*  
 2011 - 2012 *Member, Science Council*  
 2011 - 2013 *Member, University Transportation Research & Education Center*  
 2011 - 2014 *Member, Campus Planning Committee*  
 2011 - 2012 *Member, Property Development Committee*  
 2011 - 2012 *Member, Provost's Development Planning Group*  
 2011 - 2012 *Member, Information Technology Committee; Information Technology Assessment Team*  
 2012 - 2014 *UO Representative, Pac-12 Conference Grants & Fellowships Program*  
 2011 - 2014 *UO Representative, AAU Senior Research Officers*  
 2012 - 2014 *UO Representative, AAU Undergraduate STEM Education Initiative*  
 2011 - 2014 *UO Representative, Association of Graduate Schools, AAU*  
 2011 - 2014 *UO Representative, Council on Research Policy & Graduate Education, Association of Public and Land Grant Universities.*  
 2011 - 2014 *UO Representative, Universities Research Association, Inc.*

2011 - 2014 *UO Representative, Council of Graduate Schools*  
 2011 - 2014 *Member, Graduate Council, Oregon University System (OUS)*  
 2013 - 2014 *Member, OUS Oregon Healthcare Workforce Initiative*  
 2011- 2012 *Member, OUS Engineering Technology Innovation Council Board*  
 2012 *Member, Search Committee for Assistant Vice President & ETIC Director, OUS*  
 2011 *Member, OUS Research Council*

*University of Nebraska-Lincoln:*

2010-2011 *Member, Dean's Council*  
 2010-2011 *Member, University of Nebraska System, Executive Graduate Council*  
 2010-2011 *Chair, Graduate Council*  
 2010-2011 *Chair, Chancellor's Ad hoc Committee on Conflict of Interest Policy*  
 2010-2011 *Member, ADVANCE Leadership Council*  
 2010-2011 *Member, University Commencement and Honors Convocation Committee*  
 2009-2010 *Chair, UNL Committee on Instrumentation in the Life Sciences*  
 2009-2011 *Member, Planning Committee for University of Nebraska Water for Food Institute*  
 2008-2010 *Member, UNL Faculty Senate Ad Hoc Committee on Research Misconduct Policy*  
 2007- 2011 *Member, UNL Promotion & Tenure Review Committee (Institution level)*  
 2007-2011 *Member, Search Committees: Institute of Agriculture & Natural Resources, Dean; College of Education & Human Sciences, faculty, Science Education; College of Arts & Sciences, faculty, Neurophysiology of Social Behavior*  
 2007-2010 *Member, International Programs Advisory Council*  
 2006-2011 *Institutional Official / Research Integrity Officer*  
 2006-2011 *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 a College of Public Health*  
 2006-2007 *Member, Selection Committee, College of Engineering Research/Service Awards*  
 2006-2007 *Member, Animal Research Facility Renovation Committee.*  
 2005-2011 *Member, Ex-Officio, Institutional Animal Care and Use Committee.*  
 2005-2011 *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 *Member*, Evaluation team, Office of Research & Development Administration.
- 2004-2005 *Member*, Human Subjects Committee, SIUC.
- 2004-2005 *Chair*, Faculty Excellence Concept Team, SIUC
- 2004-2005 *Member*, Agility & Efficiency Task Force, Academic/Student Services
- 2004-2005 *Member*, Ex-Officio, SIUC Faculty Senate Executive Council
- 2004-2005 *Mentor*, College of Education & Human Services Development Program.
- 2004 *Member*, Search Committee, Interim Associate SOM Dean for Research
- 2004 *Moderator*, Research Town Meeting, SIUC.
- 2003-2004 *Member*, SIUC Budget & Planning Task Force
- 2003-2004 *Member*, Chancellor's Executive Committee, SIUC.
- 2003-2004 *Member*, Faculty Productivity Workgroup; Admissions & Standards Policy Workgroup, SIUC.
- 2003-2004 *President*, SIUC Faculty Senate.
- 2003 *Member*, Washington Advisory Group Report, Research Focus Group
- 2002-2003 *Member*, Search Committees: SOM Year I Curriculum Coordinator; Department of Psychology Behavioral Neuroscience Faculty; Director, Child Development Laboratories; Master Infant/Toddler Teacher.
- 2001- 2004 *Member*, SIU Faculty Senate.

#### **EXTRAMURAL SERVICE & ADMINISTRATION:**

- 2012 *Member*, Autism Centers of Excellence: Centers Review Panel, ZHD1 DSR-Y 54
- 2011 *Rotating Member*, Early Intervention and Early Childhood Education panel, Institute of Educational Sciences, Department of Education.
- 2010- *Invited Member*, College of CSR Reviewers, National Institutes of Health.
- 2005-2009 *Chartered Member*, NIH Child Psychopathology & Developmental Disabilities Study Section.
- 2005, 2010 *Ad Hoc Member*, NIH study sections: Cognition & Perception; Child Psychopathology & Developmental Disabilities, Neurological Sciences & Disorders
- 2008 *Ad Hoc Reviewer*, National Science Foundation, Development & Learning Sciences.
- 2007- *Tenure/Promotion External Reviewer*, Medical College of Wisconsin; Georgia State Univ; Baylor College of Medicine; University of Cincinnati.
- 2006-2007 *Ad hoc Grant Reviewer*, Spencer Foundation.
- 2005 *Ad hoc Grant Reviewer*, Calgary Health Region, Perinatal Research Funding Competition.
- 2004 *Grant Reviewer*, Action Medical Research Council, UK.
- 2004 *Invited Grant Panelist/Consultant*, Family Life Project, Pennsylvania State University, PA.
- 2003 *Ad Hoc Grant Reviewer*, Wellcome Trust, Fellowship Programme, London, UK.

- 2002 *Ad Hoc Grant Reviewer*, PPP Foundation Trust, Child & Adolescents Programme, London, UK.
- 1999 *Ad Hoc Grant Reviewer*, Ontario Mental Health Foundation, Canada.
- 1998 *Grant Reviewer*, SIUSOM Central Research Committee.
- 1995 *Grant Reviewer*, University of Arizona Small Grants Program.

#### **DISCIPLINE SERVICE & ADMINISTRATION:**

- 2013 *Chair*, Paper symposium, “The changing nature of executive control in preschool: Using statistical modeling to situate neuroscience in development”, International Neuropsychological Society, Seattle, WA.
- 2011 *Chair*, Paper Symposium, “A Translational Approach to Better Characterize the Role of Executive Control in Mathematics”, Society for Research in Child Development, Montreal.
- 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 Academic Proficiency”. Society for Research in Child Development. Denver, CO.
- 2008 *Organizer*, Paper Symposium, "Critical periods: Impact of early exposures on outcomes in infancy/early childhood. International Conference on Infant Studies, Vancouver, 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* (w/ R. Bull, Ph.D.), Symposium, “Executive Function Skills in Young Children: Measurement and Application.” Society for Research in Child Development, 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:

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

#### RESEARCH INTERESTS

Translational neuroscience; Executive control development and its deviations; Statistical modeling.

#### FUNDED GRANTS:

##### INSTITUTIONAL/INFRASTRUCTURE:

- 12/16 “University of Arizona Bisgrove Scholars”. Science Foundation Arizona. \$800,000
- 9/13 “Creation of a live imaging core to facilitate observation of dynamic biological systems”, M. J. Murdock Foundation Charitable Trust, \$475,000.
- 12/12 “Tyler Invention Greenhouse”. Alice C. Tyler Perpetual Trust, \$500,000.
- 11/12-5/14 *Co-Principal Investigator*, “BONSAI: Bridging Open Networks for Scientific Applications and Innovation”, National Science Foundation, PI: R. Rejaie, \$500,000
- 10/12-5/14 *Co-Principal Investigator*, “Small-Company-Centric Knowledge Enhancement Partnership to Accelerate Nanomaterials Innovation”. National Science Foundation. PI: J. Hutchison, \$600,000.
- 7/11-10/2013 *Principal Investigator*, “Improvement to University of Oregon Animal Research Facilities”, NIH C06RR029957-01, \$9M
- 11/11-2/14 *Principal Investigator*, “Brain, Biology, Machine Initiative: Applying advances in cognitive neuroscience and neurophysiology to remote brain analysis services and neurohabilitation”, Department of Defense – Telemedicine and Advanced Technology Research Center, W81XWH-09-2-0114, \$1.2M
- 2/12 “Acquisition of a 3T MRI Magnet”, M. J. Murdock Foundation Charitable Trust, \$425,000

##### EXTRAMURAL RESEARCH:

- 2/17-1/22 *Co-Investigator*, “Role of Executive Control in Adolescent Substance Use and Co-Occurring Problems.” NIH 1R01 DA041738, (PI: W.A. Mason) \$3,558,213.
- 6/15-3/17 *Principal Investigator*, “Neurocognitive Markers of Developing Executive Control and Risk for ADHD in Preschool”. NIH R21 MH105757, \$496,500.
- 8/09-3/15 *Principal Investigator*, “Executive Function Development in Preschool Children” NIH 2R01 MH065668, \$3,310,043; Diversity Supplement, M. Martinez, \$147,191

- 4/09-1/15 *Principal Investigator* (Multiple PI with L. Wakschlag), “Prenatal Smoking & Substrates of Disruptive Behavior in Early Life”, NIH R01 DA023653, \$4,867,328. Diversity Supplement, J. Garcia, \$140,026.
- 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- *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 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 RESEARCH:**

- 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 function 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.

#### **PUBLICATIONS:**

##### **REFEREED JOURNAL ARTICLES:**

Nelson, T.D., Kidwell, K.M., Nelson, J.M., Tomaso, C.C., Hankey, M., & Espy, K.A. (in press). Preschool executive control and internalizing symptoms in elementary school. *Journal of Abnormal Child Psychology*.



Taylor, H.G., Klein, N., **Espy, K.A.**, Schluchter, M., Minich, N., Stilp, R., & Hack, M. (in press). Effects of Extreme Prematurity and Kindergarten Neuropsychological Skills on Early Academic Progress. *Neuropsychology*.

Rahman, A., Carroll, D., **Espy, K.A.**, & Wiebe, S.A. (in press). Neural correlates of response inhibition in early childhood: Evidence from a Go/No-go task. *Developmental Neuropsychology*.

Nelson, T.D., Nelson, J.M., James, T.D., Clark, C.A., Kidwell, K.M., & **Espy, K.A.** (2017). Executive control goes to school: Implications of preschool executive performance for observed elementary classroom learning engagement. *Developmental Psychology*, *53*, 836-844.

Kidwell, K.M., Hankey, M., Nelson, J.M., **Espy, K.A.**, & Nelson, T.D. (2017). Child executive control as a moderator of the longitudinal association between sleep problems and subsequent attention-deficit/hyperactivity disorder symptoms. *Journal of Pediatric Psychology*. Online first published April 6, 2017.

Hankey, M., Kidwell, K.M., Nelson, J.M., **Espy, K.A.**, & Nelson, T.D. (2017). Weight status as a mediator of the association between preschool extraversion and adolescent restrained eating. *Journal of Pediatric Psychology*. Online first published March 21, 2017.

Kidwell, K.M., Nelson, T. D., Nelson, J.M., & **Espy, K.A.** (2017). A longitudinal study of maternal and child internalizing symptoms predicting early adolescent emotional eating. *Journal of Pediatric Psychology*, *42*, 445-456.

Massey, S., Hatcher, A., Clark, C.A.C., Burns, J., Pine, D., Skol, A., Mrockzek, D, **Espy, K.A.**, Goldman, D., Cook, E., & Wakschlag, L. (2017). Does MAOA increase susceptibility to adverse prenatal exposures in young children? *Neurotoxicology & Teratology*. DOI: 10.1016/j.ntt.2017.01.005

Nelson, T.D., Kidwell, K. M., Hankey, M., Nelson, J. M., & **Espy, K. A.** (2016). Preschool executive control and sleep problems in early adolescence. *Behavioral Sleep Medicine*. Online first published October 11, 2016.

**Espy, K.A.** (2016). The Changing Nature of Executive Control in Preschool. *Monographs of the Society for Research in Child Development*, *81*, 1-179. DOI: 10.1111/mono.12267

Clark, C.A.C., Chevalier, N., Nelson, J.M., James, T., Garza, J., Choi, HJ., & **Espy, K.A.** (2016). I. Executive Control in Early Childhood. In K.A. Espy (Ed), *Monographs of the Society for Research in Child Development*, *81*, 7-29. DOI: 10.1111/mono.12268.

James, T., Choi, HJ., Wiebe, S., & **Espy, K.A.** (2016). II. The Preschool Problem Solving Study: Sample, Data, and Statistical Methods. In K.A. Espy (Ed), *Monographs of the Society for Research in Child Development*, *81*, 30-46. DOI: 10.1111/mono.12269

Nelson, J.M., James, T., Choi, HJ., Clark, C.A.C., Wiebe, S. & **Espy, K.A.** (2016). III. Distinguishing Executive Control from Overlapping Foundational Cognitive Abilities during the Preschool Period. In K.A. Espy (Ed), *Monographs of the Society for Research in Child Development*, *81*, 47-68.. DOI: 10.1111/mono.12270

Clark, C.A.C., James, T., & **Espy, K.A.** (2016). IV. A New Look at the Implications of the Sociofamilial Context for Young Children's Executive Control: Clarifying mechanisms of individual differences. In K.A. Espy (Ed), *Monographs of the Society for Research in Child Development*, *81*, 69-95. DOI: 10.1111/mono.12271

Nelson, J.M., Sheffield, T., & **Espy, K.A.** (2016). V. Elucidating New Pathways to Dimensions of ADHD Symptoms in Preschool by Jointly Modeling Executive Control and Foundational Cognitive Abilities. In K.A. Espy (Ed). Monographs of the Society for Research in Child Development, 81, 96-110. DOI: 10.1111/mono.12272

**Espy, K.A.**, Clark, C.A.C., Nelson, J.M., Garza, J., James, T., & Choi, HJ. (2016). VI. Executive Control in Preschoolers: New models, new results, new implications. In K.A. Espy (Ed). Monographs of the Society for Research in Child Development, 81, 111-128. DOI: 10.1111/mono.12273

Clark, C.A.C., Wakschlag, L., & **Espy, K.A.** (2016). Developmental Pathways from Prenatal Tobacco and Stress Exposure to Behavioral Disinhibition. Neurotoxicology & Teratology, 53, 64-74. DOI: 10.1016/j.ntt.2015.11.009

Tatsuoka, C., McGowan, B., Yamada, T., **Espy, K.A.**, Minich, N., Taylor, H.G. (2016). Effects of extreme prematurity on numerical skills and executive function in kindergarten children: An application of partially ordered classification modeling. Learning and Individual Differences, DOI: 10.1016/j.lindif.2016.05.002

Nelson, T., James, T., Hankey, M., Nelson, J.M., Lundahl, A., & **Espy, K.A.** (2016). Early executive control and risk for overweight and obesity in elementary school. Child Neuropsychology, DOI: 10.1080/09297049.2016.1183606

Eastabrook, R., Massey, S. H., Clark, C.A.C., Burns, J.L., Mustanski, B., Cook, E. H., O'Brien, C. T., Makowski, B., **Espy, K.A.**, & Wakschlag, L.S. (2015). Separating family-level and direct exposure effects of smoking during pregnancy on externalizing symptoms: Bridging the behavior genetic and behavior teratologic divide. Behavior Genetics, 14, 1-14. DOI: 10.1007/s10519-015-9762-2

Nelson, T.D., Nelson, J.M., Kidwell, K.M., James, T.D., & **Espy, K.A.** (2015). Preschool sleep problems and differential associations with specific aspects of executive control in elementary school. Developmental Neuropsychology, 40, 167-180. doi: 10.1080/87565641.2015.1020946

Geeraerts, S.B., Deutz, M.H.F., Deković, M., Bunte, T., Schoemaker, K., Espy, K.A., Prinzy, P., Van Baar, A., & Matthys, W. (2015). The Child Behavior Checklist Dysregulation Profile in Preschool Children: A Broad Dysregulation Syndrome. Journal of the American Academy of Child & Adolescent Psychiatry, DOI: 10.1016/j.jaac.2015.04.012

Wiebe, S.A., Clark, C.A.C., de Jong, D., Chevalier, N., Wakschlag, L., & **Espy, K.A.** (2015). Prenatal tobacco exposure and early self-regulation: Pathways to externalizing behavior. Development and Psychopathology, 27, 397-409. DOI: <http://dx.doi.org/10.1017/S095457941500005X>

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.

Wong, T., Taylor, H. G., Klein, N., **Espy, K. A.**, Anselmo, M. G., Minich, N., & Hack, M. (2014). Kindergarten classroom functioning of extremely preterm/extremely low birth weight children. Early Human Development, 90, 907-914. DOI:10.1016/j.earlhumdev.2014.09.011

Schoemaker, K., Dekovic, M., Bunte, T., **Espy, K.A.**, & Matthys, W. (2014) Executive Functions in Preschool Children with ADHD and DBD: An 18 month longitudinal study. Developmental Neuropsychology, 39, 302-315.

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.

Wiebe, S.A., Fang, H. Johnson, C.A., James, K., & **Espy, K.A.** (2014). Determining the impact of prenatal tobacco exposure on self-regulation at 6 months. *Developmental Psychology*, *50*, 1746-1756. <http://dx.doi.org/10.1037/a0035904>

Chevalier, N., Kelsey, K. M., Wiebe, S. A., & **Espy, K. A.** (2014). The temporal dynamic of response inhibition in early childhood: An ERP study of partial and successful inhibition. *Developmental Neuropsychology*, *39*, 585-599.

Clark, C.A.C., Nelson, J.M., Garza, J., Sheffield, T., Wiebe, S. & **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 Developmental Psychology*, *5*, 107. doi: 10.3389/fpsyg.2014.00107

Segretin, M. S., Lipina, S. J., Hermida, M. J., Sheffield, T. D., Nelson, J. M., **Espy, K. A.**, & Columbo, J. (2014). Predictors of cognitive enhancement after training in preschoolers from diverse socioeconomic backgrounds. *Frontiers in Developmental Psychology*, *5*, 205. doi: 10.3389/fpsyg.2015.00205

Tulsky, D. S., Carlozzi, N., Chevalier, N., **Espy, K. A.**, Beaumont, J., & Mungas, D. (2013). NIH Toolbox Cognition Battery (CB): Measuring Working Memory. In P.D. Zelazo & P. Bauer (Eds.) National Institutes of Health Toolbox Cognition Battery: Validation for Children between 3 and 15 years. *Monographs of the Society for Research in Child Development*, *78*, 70-87. doi: 10.1111/mono.12035

Abubakar, A., Holding, P., Van Baar, A., Newton, C., Van de Vijver, F., & **Espy, K.A.** (2013). The Performance of Children Prenatally Exposed to HIV on the A-not-B task in Kilifi, Kenya. *International Journal of Environmental Research & Public Health*. *10*, 4132-4142. doi:10.3390/ijerph10094132#sthash.j80mieJv.dpuf

Clark, C.A.C., Sheffield, T.D., Mize Nelson, J., Chevalier, N., Wiebe, S.A., & **Espy, K.A.** (2013). Charting longitudinal trajectories of executive control with the Shape School. *Developmental Psychology*, *49*, 1481-1493. PMID 23106846

Chevalier, N., Huber, K., Wiebe, S. A., & **Espy, K. A.** (2013). Qualitative changes in executive control during childhood and adulthood. *Cognition*, *128*, 1-12. PMID 23562979

McClean, S., Wiebe, S., Dodd, M., Smith, K., Hibbing, J. & **Espy, K.A.** (2013). Applying the Flanker Task to Political Psychology. *Journal of Political Psychology*, *34*.

Clark, C.A.C., Fang, H., **Espy, K.A.**, Filipek, P. Juranek, J., Bangert, B., Hack, M., & Taylor, H.G. (2013). Relation of neural structure to persistently low academic achievement: A longitudinal study of children with differing birthweights. *Neuropsychology*, *27*, 364-377. PMID 23688218

Clark, C. A. C., Sheffield, T. D., Wiebe, S. A. & **Espy, K.A.** (2013). Longitudinal associations between preschoolers' emerging executive control and developing mathematical competence in preschool boys and girls. *Child Development*, *84*, 662-677. PMID: PMC3530644

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. PMID: PMC3399978

Scott, M.N., Taylor, H.G., Fristad, M.A., Klein, N. **Espy, K.A.**, Minich, N., & Hack, M. (2012). Behavior disorders in extremely premature/extremely low birth weight children in kindergarten. Journal of Developmental and Behavioral Pediatrics, *33*, 202-213. *PMCID: PMC3319865*

Fang, J., Dukic, V., Pickett, K., Wakschlag, L., & **Espy, K.A.** (2012). Detecting graded exposure effects: A report on an East Boston pregnancy cohort. Nicotine & Tobacco Research, *14*, 1115-1120. *PMCID: PMC3432276*

Shoemaker, K. Bunte, T., Wiebe, S.A., **Espy, K.A.**, Deković, M., & Matthys, W. (2012). Executive function deficits in preschool children with ADHD and DBD. Journal of Child Psychology and Psychiatry, *53*, 111-119. *PMID 22022931*

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. *PMCID: PMC3308575*

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-olds. Journal of Experimental Child Psychology, *108*, 436-452. *PMCID: PMC3033982*

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. *PMCID: PMC3065531*

Orchnik, L., Taylor, H.G., **Espy, K.A.**, Minich, N., Klein, N., Sheffield, T., & Hack, M. (2011). Cognitive Outcomes for Extremely Preterm/Extremely Low Birth Weight Children in Kindergarten. Journal of the International Neuropsychological Society, *17*, 1067-1079. *PMCID: PMC3282051*

**Espy, K.A.**, Sheffield, T.D., Wiebe, S.A., Clark, C.A.C. & Moehr, M.J. (2011). Executive control and dimensions of problem behaviors in preschool children. Journal of Child Psychology and Psychiatry, *52*, 33-46. *PMCID: PMC3648207*

Taylor, H.G, Klein, N., Anselmo, M., Minich, N., **Espy, K.A.** & Hack, M. (2011). Learning problems in kindergarten students with extremely preterm birth. Archives of Pediatric & Adolescent Medicine, *165*, 819-825. *PMCID: PMC3298457*

Bull, R.B., **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 mathematic skills. Developmental Science, *14*, 679-92. *PMCID: PMC3117199*

Fang, H., **Espy, K.A.**, Stopp, C., & Johnson, C. (2011). A New Look at Tobacco Exposure during Pregnancy Using Fuzzy Clustering. Neurotoxicology & Teratology, *33*, 155-165. *PMCID: PMC3052936*

**Espy, K.A.**, Stopp, C., Wiebe, S. & Respass, J., Fang, H., & Johnson, C. (2011). Prenatal Tobacco Exposure: Developmental Outcomes in the Neonatal Period. Developmental Psychology, *47*, 143-157. *PMCID: PMC3057676*

Fang, H., Johnson, C., Stopp, Wiebe, S.A., Wakschlag, L.S., & **Espy, K.A.** (2010). Using Propensity Score Modeling to Minimize the Influences of Confounding Risks Related to Prenatal Tobacco Exposure. Nicotine & Tobacco Research, *33*, 155-165. *PMCID: PMC2991623*

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. *PMCID: PMC2838252*

- 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. *PMCID: PMC2776698*
- 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. *PMID: 19486842*
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- 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. *PMCID: PMC2844665*
- 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. *PMCID: PMC285523*
- 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. *PMID: 18359494*
- 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. *PMCID: PMC2783599*
- 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.
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- 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.
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**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.

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., Matthay, K., Miketova, 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., Huckleba, 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:*

Bunte, T., Schoemaker, K., van der Heijden, P., **Espy, K.A.** & Matthys, W. (submitted). Factors predicting stability of ODD, CD and ADHD diagnosis and persistence of symptoms in preschool children *Child & Adolescent Mental Health*.

Massey, S., Mrockzek, D., Burns, J., Clark, C.A.C., **Espy, K.A.**, & Wakschlag, L. (submitted). Positive parenting behaviors in women who successfully suspend smoking without treatment during pregnancy: Towards the identification of protective factors as candidate intervention targets. *Addictive Behaviors*.

Nelson, T.D., Nelson, J.M., Mason, W.A., Kozikowski, C.B., Tomaso, C.C., & Espy, K.A. (submitted). Executive control and pediatric health: Toward a conceptual framework. *Journal of Pediatric Psychology*.

Massey, S., Hatcher, A., Clark, C.A.C., Burns, J., Pine, D., Skol, A., Mrockzek, D, **Espy, K.A.**, Goldman, D., Cook, E., & Wakschlag, L. (submitted). Does Monoamine Oxidase A polymorphism moderates effects of prenatal stress on boys' disruptive behavior at age 5. *Genes, Brain and Behavior*

Massey, S., Clark, C.A.C., Burns, J., Mrockzek, D., **Espy, K.A.**, & Wakschlag, L. (submitted). Parenting responsiveness in women who spontaneously quit smoking during pregnancy: Additional support for a protective developmental trajectory. *Prevention Science*.

Clark, C.A.C., Massey, S., Wiebe, S.A., **Espy, K.A.**, & Wakschlag, L. (submitted). Does early maternal responsiveness buffer prenatal tobacco exposure effects on young children's behavioral disinhibition? *Development & Psychopathology*.

Ernst, K.K., Hoffman, L. Wiebe, S.A., James, T.D., **Espy, K.A.** (submitted). Impact of Prenatal Tobacco Exposure on Developmental Change in Motor Inhibition and Delayed Gratification in Preschoolers. *Development & Psychopathology*.

French, K., Beran, M., **Espy, K.A.**, & Washburn, D.A., (submitted). Simians in the Shape School: A Comparative Study of Executive Attention.

Vrantsidis, D., Chevalier, N., Clark, C.A.C., **Espy, K.A.**, & Wiebe, S.A., Socioeconomic status and executive functions in early childhood: Exploring proximal mechanisms. *Child Development*.

#### *BOOK CHAPTERS & TECHNICAL REPORTS:*

Nelson, J. M., Sheffield, T. D., Chevalier, N., Clark, C. A. C., & **Espy, K. A.** (2016). Structure, measurement, and development of preschool executive control. In J. A. Griffin, L. S. Freund, & P. McCardle (Eds.), Executive function in preschool age children: Current Knowledge and Research Opportunities. APA Press.

Clark, C.A.C., Martinez, M. M., Nelson, J. M., Wiebe, S. A., & Espy, K. A. (2014). Self-regulation and executive control: Critical for later years. In S. A. Landry & C. Cooper (Eds.), Well-being of children and families. New York: Wiley-Blackwell.

**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.

#### *COMMERCIALIZATION/INNOVATION:*

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



**INVITED PRESENTATIONS:***SCIENTIFIC KEYNOTE / MAJOR ADDRESS:*

- 2011 “Executive Control Development in Preschool Children”. Houston Neuropsychological Society, Houston, TX.
- 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”. 10<sup>th</sup> Annual Brain Injury Symposium, Ohio Brain Injury Association, Columbus
- 1998 “Early Intervention Strategies for Infants and Children Exposed prenatally to drugs and alcohol”. 9<sup>th</sup> 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:*

- 2012 “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:*

- 2013 “Controlling Little Minds”. 14<sup>th</sup> Annual Oregon Health Sciences University Brain Awareness Teacher Workshop, Portland, OR.
- 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:

- 2011 A. Abubakar, Thrasher Foundation Early Career Award (2 year), \$25,000.
- 2011 J. Garcia, NIH Diversity supplement award for post-doctoral study (2 year), \$140,026.
- 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
- 2005-2011 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 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:

Kathleen Kelsey	Master's	UNL	2010		
Melanie Nelson	Doctoral	SIU	2002	Master's	1998

Theresa Senn	Doctoral	SIU	2003		
Michelle Ellefson	Doctoral	SIU	2002	Master's	2000
Kay Wanke	Doctoral	SIU	2000		
Abigail Johnson	Master's	SIU	2005		
Mary Cwik	Master's	SIU	2002		

Member:

Kathleen Kelsey	Doctoral	UNL	2013		
Marilu Martinez	Doctoral	UNL	2014		
Margaret Ortman	Doctoral	UNL	2011		
Patricia Hill	Doctoral	UNL	2010		
Brenda Wiens	Doctoral	SIU	2003		
Jodi Woodward	Doctoral	SIU	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.	National Institutes of Health	Health Scientist Administrator
Michelle Ellefson, Ph.D.	Cambridge University, UK	University Senior Lecturer
Theresa Senn, Ph.D.	Brown University	Associate Professor
Mary Cwik, Ph.D.	Johns Hopkins University Medical School	Assistant Scientist
David Charak, Ph.D.	Learning Point Associates, Inc.	Project Director
Jessica Martin Cyran, Ph.D.	Cincinnati Children's Hospital	Staff Psychologist
Sandra Wiebe, Ph.D.	University of Alberta	Associate Professor
Abigail Johnson, Ph.D.	University of Michigan Medical School	Assistant Professor
Hua Fang, Ph.D.	University of Massachusetts Medical School	Associate Professor
Caron A.C. Clark, Ph.D.	University of Nebraska-Lincoln	Assistant Professor
Nicolas Chevalier, Ph.D.	University of Edinburgh	Chancellor's Fellow

*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 = 158; 45 international, 113 national)*

M. Hankey, T.D. James, A. Lundahl, J.M. Nelson, K.A. Espy, & T.D. Nelson. (2016). Executive control and child weight problems: A longitudinal study. Poster presented at the 64<sup>th</sup> Nebraska Symposium on Motivation. Lincoln, NE.

C.A.C. Clark, D. O'Brien, de Jong, K.A. Espy, & L. Wakschlag. (2015). Pathways from prenatal tobacco and stress exposure to child neurobehavioral outcome. Symposium paper presented, Prenatal Tobacco Exposure: Investigating Pathways to Risk for Neurobehavioral and Externalizing Behavior Outcomes, Society for Research in Child Development, Pittsburgh, PA.

C.A.C. Clark. (2014). Early executive control and academic achievement: Implications for education. Invited paper presented at Learning and the Brain conference, Boston, MA.

C.A.C. Clark, T. Sheffield, & K.A. Espy. (2014). The socio-familial context in early childhood and mechanisms of influence on developing executive control in preschool. Paper presented at the International Neuropsychological Society, Seattle, WA.

J. Garza, J. Nelson, T. Sheffield, H-J Choi, C.A.C. Clark, S.A. Wiebe, & K.A. Espy. (2014) (February). Parsing executive control from foundational cognitive abilities in preschool: Application of the bifactor model to examine developmental change. Paper presented at the International Neuropsychological Society, Seattle, WA.

J. Nelson, T. Sheffield, & K.A. Espy. (2014). Clarifying pathways to ADHD symptom dimensions in preschool using dualistic models of executive control and foundational cognitive abilities. Paper presented at the International Neuropsychological Society, Seattle, WA.

A. Schutte, C.A.C. Clark, J. Nelson, T. Sheffield, & K. A. Espy. (2014). A neural network model of executive control in preschoolers. Paper presented at the International Neuropsychological Society, Seattle, WA.

D. de Jong, C.A.C. Clark, A. Gilgenbach, C. Olson, K. Poppert, L. Wakschlag, & K.A. Espy. (2014). Prenatal Tobacco Exposure and Preschoolers' Externalizing Behavior under Conditions of Frustration. Poster presented at the International Neuropsychological Society, Seattle, WA.

C.A.C. Clark, J. Mize-Nelson, & K.A. Espy. (2013) Sustained and interactive relations of children's early socioeconomic contexts and executive control to their later academic achievement. Society for Research in Child Development Meeting, Seattle, WA.

C. OBrien, C.A.C. Clark, K.A. Espy, & L. Wakschlag. (2013). Prenatal stress and nicotine exposure and early childhood inhibitory control: Pathways to externalizing behavior problems. Society for Research in Child Development Meeting, Seattle, WA.

H-J. Choi, C.A.C. Clark, & K.A. Espy. (2013). Integrating response time and accuracy for a more nuanced approach to individual differences in children's early executive control. Society for Research in Child Development Meeting, Seattle, WA.

J. Garza, C.A.C. Clark, K.A. Espy, & L. Wakschlag. (2013). Attentional set-shifting between perceptual and emotion discrimination tasks in preschoolers prenatally exposed to tobacco. Society for Research in Child Development Meeting, Seattle, WA.

J. M. Nelson, H. Choi, T. Sheffield, C.A.C. Clark, S. Sheridan & K.A. Espy, (2013). Preschool executive control and children's observed classroom behavior in the transition to elementary school. Society for Research in Child Development Meeting, Seattle, WA.

K.A. Espy, H-J. Choi, & C.A.C. Clark, (2013). Implications of ecological context and executive control for mathematics achievement in early childhood. Jean Piaget Society Meeting.

C.A.C. Clark, J. Garza, N. Chevalier, K.A. Espy, K.A., & S. Wiebe. (2012). Prenatal tobacco exposure and inhibitory control are linked to different dimensions of psychopathology in early childhood. Poster presented at the Conference on Executive Function and Inhibition, Boulder, CO.

J. Garza, K. Giuseffi, K. Smith, J. Hibbing, & K.A. Espy. (2012) Event-Related Potentials in Response to Emotional Faces Among Individuals with Differing Political Attitudes. Cognitive Neuroscience Society Meeting, Chicago, IL.

H-J. Choi & C.A.C. Clark. (2012). An Integrative Model to Combine Response Time with Accuracy (Response Time Item Response theory Model). The International Meeting Psychometric Society, Lincoln, NE.

S. Wiebe, C. Clark, C. Johnson, H. Fang, N. Chevalier, & K.A. Espy. (2012). 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 meeting of the International Society for the Study of Behavioural Development, Edmonton, AB.

K.A. Espy, T. Sheffield, H-J Choi, J.M. Nelson, & C.A.C. Clark. (2012). Testing longitudinal invariance of a dynamic developmental construct: Executive control across the preschool years. Society for Research in Child Development Developmental Research Methodology Meeting, Tampa, FL.

K.A. Espy, H-J Choi, T. Sheffield, J.M. Nelson, & C.A.C. Clark. (2012). A bayesian approach to measurement invariance tests in longitudinal research on executive control across the preschool years. SRCD Developmental Research Methodology Meeting, Tampa, FL.

S. Wiebe, J. Nelson, T. Sheffield, N. Chevalier, C. Johnson, K.A. Espy. (2012). Understanding Executive Function in Early Childhood: Insights from Confirmatory Factor Analysis. SRCD Developmental Research Methodology Meeting, Tampa, FL.

K.A. Espy, T. Sheffield, J. Nelson, S. Wiebe, C.A.C. Clark & N. Chevalier. (2011). Developmental change in executive control across the preschool period. Paper presented at the 5th International Conference on Memory, York, England.

L. Heiden, K. Huber, N. Chevalier, C.A.C. Clark, J. Nelson, C. Johnson, S. Wiebe, & K.A. Espy. (2011). Prenatal tobacco exposure and inhibition at age 3. Southeastern Psychological Association meeting, Jacksonville, FL.

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

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

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