

CURRICULUM VITAE

PATRICIA L. DAVIES, Ph.D., OTR/L, FAOTA

PERSONAL DATA

Title and Professional Address

Associate Dean for Research and Graduate Programs
College of Health and Human Sciences, and
Professor, Department of Occupational Therapy
Colorado State University
219 Occupational Therapy
Fort Collins, Colorado 80523-1573
Telephone: (970) 491-7294

EDUCATION

<u>Date</u>	<u>University</u>	<u>Degree Program</u>
1995	University of Wyoming Laramie, Wyoming	Ph.D. Experimental Psychology and Neuroscience
1993	University of Wyoming Laramie, Wyoming	M.S. Experimental Psychology And Neuroscience
1981	Colorado State University Fort Collins, Colorado Fort Collins, Colorado	B.S. Occupational Therapy

PROFESSIONAL EXPERIENCE

Employment History

<u>Institution</u>	<u>Rank/Title</u>	<u>Dates</u>
Colorado State University Fort Collins, Colorado	Associate Dean for Research and Graduate Programs College of Health and Human Sciences	July 2015 – January 2019
Colorado State University Fort Collins, Colorado	Professor Department of Occupational Therapy	July 2011 - present
Colorado State University Fort Collins, Colorado	Professor Molecular, Cellular and Integrative Neuroscience Program	July 2011 - present
University of Canterbury Christchurch, New Zealand	Visiting Professor Institute Language, Brain & Behavior	Sept 2012 – March 2013
Colorado State University Fort Collins, Colorado	Associate Professor Department of Occupational Therapy	July 2004 - 2011
Colorado State University Fort Collins, Colorado	Associate Professor Department of Human Development and Family Studies Joint Appointment	August 2009- 2011

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Updated 9/20/19

<u>Institution</u>	<u>Rank/Title</u>	<u>Dates</u>
Colorado State University Fort Collins, Colorado	Associate Professor Molecular, Cellular and Integrative Neuroscience Program	July 2004 – 2011
Colorado State University Fort Collins, Colorado	Associate Professor Department of Psychology Joint Appointment	July 2006 – 2011
Colorado State University Fort Collins, Colorado	Assistant Professor Department of Occupational Therapy	August 2000 - 2004
Colorado State University Fort Collins, Colorado	Assistant Professor Molecular, Cellular and Integrative Neuroscience Program	February 2003 - 2004
University of Buffalo State University of New York Buffalo, New York	Assistant Professor Department of Occupational Therapy	August 1995 – July 2000
University of Buffalo State University of New York Buffalo, New York	Visiting Professor Department of Occupational Therapy	August 1994 – July 1995
Children’s Hospital Robert Warner Rehabilitation Buffalo, New York	Staff Occupational Therapist	Summer 1998
Developmental Preschool Laramie, Wyoming	Staff Occupational Therapist	January 1990 – July 1994
Carbon County School District #1 Rawlins, Wyoming	Staff Occupational Therapist	January – August 1990
Project Reach Rawlins, Wyoming	Staff Occupational Therapist	January – August 1990
Institute of Logopedics Wichita, Kansas	Director, Neuromuscular Therapies	May 1987 – December 1989
Institute of Logopedics Wichita, Kansas	Director, Occupational and Physical Therapy	July 1986 – May 1987

<u>Institution</u>	<u>Rank/Title</u>	<u>Dates</u>
Institute of Logopedics Wichita, Kansas	Supervisor, Occupational Therapy Department	August 1984 – July 1986
Institute of Logopedics Wichita, Kansas	Staff Occupational Therapist	May 1982 – August 1984
Wichita Public Schools - USD 259 Wichita, Kansas	Staff Occupational Therapist	January – June 1982

Consultant Positions

Language Development Program, Buffalo, NY, Consultant for the integration of OT/PT services into the classrooms, April 1998 – 2000 (paid)

Sedgwick County Area Education Services Interlocal Coop 618, Consultant to staff teams for public school aged children, 1983-1984 (volunteer)

Center Coordinator for Clinical Education - University Appointments

Center Coordinator for Clinical Education, Department of Occupational Therapy, University of Kansas, 1983 to 1989

Center Coordinator for Clinical Education, Department of Occupational Therapy, Colorado State University, 1983 to 1989

Center Coordinator for Clinical Education, Department of Occupational Therapy Assistant Program, Great Bend, Kansas, 1985 to 1989

CERTIFICATION and LICENSURE

Certified by the American Occupational Therapy Association as an Occupational Therapist, Registered, 1982 to 1986

Certified by the American Occupational Therapy Certification Board as an Occupational Therapist, Registered, January 1987 to present

Licensed in the State of Colorado as an occupational therapist, January 2009 to present

Licensed in the State of New York as an occupational therapist, January 1995 to August 2000

Certified as a Neurodevelopmental Therapist by the NDTA, Inc., April 1985 to present

Licensed in the State of Wyoming as an occupational therapist, August 1991 to August 1994
Registered as an occupational therapist in the State of Kansas by the Board of Healing Arts, July 1987 to December 1989

PROFESSIONAL HONORS AND AWARDS

A. Jean Ayres Award, The American Occupational Therapy Foundation (AOTF), to recognize occupational therapy clinicians, educators, and researchers who have demonstrated sustained commitment to the application, development, or testing of theory in occupational therapy, April 2013

Don Beaven Travelling Fellowship, Canterbury Medical Research Institute, Christchurch, New Zealand, September – November 2012

Academy of Research in Occupational Therapy, The American Occupational Therapy Foundation (AOTF), the highest scholarly honor that AOTF confers for outstanding contributions through research to the advancement of knowledge in occupational therapy, January 2010

Caroline Thompson Lecturer, Occupational Therapy Program, University of Wisconsin, October 29, 2009

Preston Davis Award for Instructional Innovation – Unit Award to the ACCESS team, Colorado State University, April 2008

Roster of Fellows, American Occupational Therapy Association, for her significant contributions to the field of occupational therapy in promoting excellence in pediatric research and practice, April 2007

Service Award, American Occupational Therapy Association, 2006.

Service Award, American Occupational Therapy Association, 2005.

Invited to teach at Dept of Occupational Therapy, Faculty of Health Science, Yamagata Prefectural University of Health Science, Yamagata city, Yamagata, Japan, March 2004

Nominated by College of Applied Human Sciences for the Howard Hughes Medical Institute (HHMI)/2004-2005 Investigator Competition, June 2004

Recognition Award – Occupational Therapy Association of Colorado, October 2003

Selected as faculty for the Molecular, Cellular and Integrative Neuroscience Program 2003

Full Membership, Sigma Xi Scientific Research Society, May 2001

School of Health Related Professions Dean's Award for meritorious service, October 1998

Nominated for membership into Sigma Xi, Scientific Honor Society, May 1993

First Place, Sigma Xi Thesis Presentation contest, May 1993

Outstanding Graduate Student in Psychology for the 1991-1992 academic year, May 1992.

Full Graduate Assistantships for academic years 90-91, 91-92, 92-93, 93-94

Phi Kappa Phi Honor Society 1980 to 1994

GRANTS

Dr. Davies, as PI and CoPI, has received over \$15.8 million in grant funds for research and demonstration projects. Funding agencies include National Institutes of Health, US Dept Education, US Dept Agriculture, National Science Foundation, Wallace Research Foundation, American Occupational Therapy Foundation, American Music Therapy Association, University of Buffalo, CSU Graduate School, CSU College of Applied Human Sciences, and CSU Occupational Therapy Department.

Externally Projects Funded

Co-Investigator: *Vocational Fit Assessment and Employment Status in People with Intellectual Disabilities*. Funding Source: NIH/NICHHD. Grant Period: April 1, 2019 – March 30, 2024. Amount: \$2,823,143. (Grant # 1R01HD092474-01A1).

Co-Principal Investigator: *Investigating Music Therapy for Children with Autism*. Principal Investigator: Bythe LaGasse. Funding Source: American Music Therapy Association - Arthur Flagler Fultz Award. Grant Period: June 2016 – December 2019. Amount: \$15,000.

Principal Investigator: *CHOICES: Creating Higher-education Opportunities for Individualized Career and Employment Success*. Other Principal Investigators: James Graham, Julia Kothe, Cathy Schelly, retired from CSU 6-2-17. Funding Source: US Department of Education. Grant Period: October 2015 – September 2020. Amount: \$2,055,558. (Grant # P407A150048).

Co-Principal Investigator: *Bridging Home and Preschool Environments to Promote Healthy Eating and Activity Behaviors and Prevent Obesity in Early Childhood*. Principal Investigator Laura Bellows. Other Co-PI; Susan Johnson, William Gavin, Barbara Chamberlin. USDA NIFA AFRI. Grant period: May 2015- April 2020. Amount: \$4,989,552.

Co-Principal Investigator: *REU Supplement: HCC: Medium: Removing Barriers to the Practical Use of Non-Invasive Brain-computer Interfaces*. Principal Investigator: Charles Anderson. Other Co-PIs: William Gavin. Funding Source: National Science Foundation. Grant Period: 2011 – 2018. Amount: \$24,000. (Grant# IIS-1065513)

Co-Principal Investigator: *HCC: Medium: Removing Barriers to the Practical Use of Non-Invasive Brain-computer Interfaces*. Principal Investigator: Charles Anderson. Other Co-PIs: William Gavin. Funding Source: National Science Foundation. Grant Period: 2011 – 2018. Amount: 1,193,642. (Grant# IIS-1065513)

Co-Principal Investigator: *Transitions Project: Opportunities for postsecondary success*. Principal Investigator: Cathy Schelly. Other Co-PIs: Marla Roll, Rose Kreston. Funding Source: US Department of Postsecondary Education. Grant Period: October 2010 – September 2016 (one year no-cost extension). Amount: \$1,849,796 (without cost share) and \$2,477,071 (with cost share). (Grant # P407A100027).

Principal Investigator: *Neurophysiological correlates of variability in vocabulary size; 2010-2011 International Mobility Fund of the International Relationships Fund.* PIs: Stephanie Stokes, Thomas Klee, William Gavin and Patti Davies. Funding Source: Office of the Minister of Research, Science and Technology, New Zealand. Grant Period: Summer 2011. Amount: \$5,500.

Co-Principal Investigator: *A Longitudinal Study to Assess if the Effectiveness of a Preschool Nutrition and Physical Activity program is Sustained in Elementary School.* Principal Investigator: Laura Bellows. Other Co-Principal Investigators, Jennifer Anderson, Susan Johnson. Funding Source: U.S. Department of Agriculture/National Institute of Food and Agriculture: AFRI. Grant Period: April 2010 through March 2014. Amount: \$1,499,509.

Co-Principal Investigator: *ACCESS II: Persistence in Postsecondary Education for Students with Disabilities.* Principal Investigator: Cathy Schelly. Other Co-PIs: Marla Roll. Funding Source: US Department of Postsecondary Education. Grant Period: October 2008 – September 2012 (one year no cost extension). Amount: 1,029,787. (Grant # P333A080026).

Co-Principal Investigator: *Demonstrating Why Deficits in Early Sensory Processing Leads to Excessive Cognitive Processing in Children with SPD.* Funding Source: Wallace Research Foundation. Grant period: January 1, 2008 through December 31, 2008. Amount: \$39,994.

Principal Investigator: *Sensory Gating Mediated by Attention.* Funding Source: National Institutes of Health, National Institute of Child Health and Human Development. Grant period: August 2006 – July 2009 (one year no cost extension). Amount: \$146,500. (Grant # R03HD049532)

Principal Investigator: *Reliability of Cognitive ERPs in Children and Adults.* Funding Source: National Institutes of Health, National Institute of Child Health and Human Development. Grant period: April 2005 – March 2008 (one year no cost extension). Amount: \$145,000. (Grant # R03HD046512)

Co-Principal Investigator: *Validating Sensory Processing Disorders through Concomitant Neurophysiological Neuropsychological, Psychophysiological, and Neurobiological Measures.* Principal Investigator: William J. Gavin. Wallace Research Foundation. Grant Period: January 1, 2006 – December 31, 2007. Amount: \$39,994.

Evaluator: *ACCESS for Higher Education.* Principal Investigator: Cathy Schelly. Funding Source: US Department of Postsecondary Education. Grant Period: October 2005 – September 2008. Amount: \$745,215. (Grant # P333A050015).

Co-Investigator: *Food Friends and Fun Moves: A Creative Approach to Obesity Prevention for Preschoolers and their Families.* Principal Investigator: Jennifer Anderson. Funding Source: USDA CSREES – NRI. Grant period: January 15, 2005 – January 14, 2009. Amount: \$902,492.

Principal Investigator: *Brain Mechanisms Underlying Sensory Modulation Dysfunction: Part II.* Funding Source: Wallace Research Foundation, 5121 N. Corte de Catalonia, Tucson, AZ 85718-6078. Grant Period: January 2003 – April 2003. Amount: \$8,281.

Principal Investigator: *Brain Mechanisms Underlying Sensory Modulation Dysfunction.*

Funding Source: Wallace Research Foundation, 5121 N. Corte de Catalonia, Tucson, AZ 85718-6078. Grant Period: January 2002 – December 2002. Amount: \$50,000.

Principal Investigator: *Cognitive Event-Related Potentials and Brain Maturation.* Funding Source: National Institutes of Health, National Institute of Child Health and Human Development, Center for Medical Rehabilitation Research. Grant period: August 1998 - May 2004 (one year no cost extension). Amount: \$418,153. (Grant # 1K01HD001201-01A1)

Principal Investigator: *Testing a strategy for computer based assistive technology intervention to support inclusion.* Co-Principal Investigator: William C. Mann. Funding source: Office of Special Education and Rehabilitation Services, U.S. Department of Education (CFDA 84.023D). Grant period: January 1998 - December 2001. Amount: \$749,786. (Grant #H023D97050998)

Pediatric Coordinator: *Doctoral Program in Rehabilitation Science: Meeting Leadership Needs in Related Services.* Project Director: William C. Mann. Office of Special Education and Rehabilitation Services, U.S. Department of Education, (CFDA 84.029). January 1998 - August 2000. Amount: \$622,772

Principal Investigator: *Neurophysiological Correlates to Cognitive Development in Sensorimotor Impaired Children.* Funding Source: The American Occupational Therapy Foundation. This grant was awarded to collect pilot data. Awarded June 1996. Amount: \$1,000.

Internally Projects Funded

Principal Investigator: *Children's Executive Function, Eating Regulation, and Weight – Obesity prevention in children.* Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: June 2017 – June 2018. Amount: \$3,812.

Principal Investigator: *Developing a Biobehavioral Model to Explain the Dynamic Inter-relationships between Neurophysiological Measures and Behavioral Measures of Executive Functions in Children.* Other PI: William Gavin. Co-PIs: graduate students Brittany Taylor, and Mei-heng-Lin. Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: October 2015 – June 2016. Amount: \$3,860.

Principal Investigator: *Investigating Neurologic Music Therapy for Children with Autism – A Feasibility Study.* Co-PIs: Blythe LaGasse and William Gavin. Funding Source: College of Health and Human Sciences. Amount: \$7,355. June 2014- June 2015.

Principal Investigator: *Request for funds to purchase and install a sound attenuation chamber in the Brainwaves Research Laboratory.* VPR Quarterly Strategic Investment Award, Office of the Vice President for Research. Colorado State University. October 1, 2014. Funding Level: \$62,110.

Principal Investigator: *Understanding the home environment to address obesity prevention in young children.* Other PIs: Laura Bellows, Susan Johnson, Richard Boles. Funding Source: Colorado Agriculture Experiment Station. Grant Period: July 2012 – July 2014. Amount: \$24,960

Principal Investigator: *Improving Academic Experiences for CSU Athletes through Universal Design for Learning, Assistive Technology and Student Self-Advocacy.* Other PI: Cathy Schelly. Co-PI: Marla Roll. Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: December 2011 – June 2012. Amount: \$3,974.

Principal Investigator: *Investigating Links between Functional Performance and Neurophysiological Measure of Sensory Processing in Children with Autism.* Other PI: William J. Gavin. Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: December 2011 – June 2012. Amount: \$4,000.

Principal Investigator: *Expanding on Brain-Computer Interface (BCI) Technology Applied to Real-Life Situations.* Other PI: Marla Roll. Co-PIs: William J. Gavin and Charles Anderson. Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: November 2010 – June 2011. Amount: \$2,879.

Principal Investigator: *Brain-Computer Interface (BCI) Technology Applied to Real-Life Situations: Home Life and College Education.* Other PI: Marla Roll. Co-PIs: William J. Gavin and Charles Anderson. Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: February 2010 – June 2010. Amount: \$4,811.

Principal Investigator: *Using EEG/ERP Measures of Sensory Processing to Distinguish Children with Differing Disorders.* Department of Occupational Therapy, Colorado State University. Grant Period: November 2007 – June 2008. Amount: \$5,000.

Principal Investigator: *Contingent Negative Variation Event-Related Potentials and Brain Maturation.* Department of Occupational Therapy, Colorado State University. Grant Period: October 2006 – June 2007. Amount: \$3,000.

Co-Principal Investigator: *Testing a Computational Model for Identifying Developmental Changes in Cognitive Processing.* Principal Investigator: William J. Gavin. Funding Source: College of Applied Human Sciences Research, Creative or Scholarly Endeavors Awards. Grant period: January – May 2006. Amount: \$3,900.

Principal Investigator: *Cognitive and Sensory Electroencephalography Event-Related Potentials.* Department of Occupational Therapy, Colorado State University. Grant Period: October 2004 – June 2005. Amount: \$3,000.

Principal Investigator: *Auditory and Somatosensory Gating in Adults and Children.* Funding Source: College of Applied Human Sciences Research, Creative or Scholarly Endeavors Awards. Grant period: January – May 2005. Amount: \$3,980.

Principal Investigator: *Relating Auditory Sensory Gating and Psychophysical ERP Measures to Sensory Processing Deficits.* Funding Source: Wallace Research Foundation, 5121 N. Corte de Catalonia, Tucson, AZ 85718-6078. Grant Period: June 2004 – May 2005. Amount: \$39,943.

Principal Investigator: *Cognitive Event-Related Potentials and Brain Maturation.* Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: October 2004 – June 2005. Amount: \$4,000.

Principal Investigator: *Error Monitoring Examined Using Simultaneous EEG and MEG.* Funding Source: Career Enhancement Award, Colorado State University, Vice President of Research. Grant Period: September 2004 – August 2005. Amount: \$4,400.

Principal Investigator: *New EEG Paradigms in Sensory Gating.* Funding Source: Department of Occupational Therapy, Colorado State University. Grant Period: January 2004 – June 2004. Amount: \$4,000.

Principal Investigator: *Measuring the Brain's Ability to Regulate Sensory Input in Young Children: A Developmental Study.* Funding Source: Colorado State University, Graduate School. Grant Period: Summer 2001 – Summer 2002. Amount: \$4,500.

Principal Investigator: University at Buffalo Equipment Challenge Grant. Funding Source: Office of Vice President for Research, University at Buffalo. Awarded August 1998. Amount: \$12,750.

PUBLICATIONS

Peer Reviewed Journal Articles-Published

Taylor, B.K., Gavin, W.J., Grimm K., Prince, M.A., Lin, M-H., & **Davies, P.L.** (2019). A Unified Model of Event-Related Potentials as Phases of Stimulus-to-Response Processing. *Neuropsychologia*. Accepted 6-19-19 <https://doi.org/10.1016/j.neuropsychologia.2019.107128>

LaGasse, A.B., Berent, R.C., Crasta, J.E., Gavin, W.J., & **Davies, P.L.** (In press). Assessing the Impact of Music Therapy on Sensory Gating and Attention in Children with Autism: A Pilot and Feasibility Study. *Journal of Music Therapy*, accepted 5-17-19.

Gavin, W.J., Lin, M., & **Davies, P.L.** (in press) Developmental Trends of Performance Monitoring Measures in 7-to 25-year-olds: Unravelling the Complex Nature of Brain and Behavioral Measures. *Psychophysiology*, accepted 2-18-19. DOI: 10.1111/psyp.13365

Stephens, J.A., **Davies, P.L.**, Gavin, W.J., Mostofsky, S.H. Slomine, B.S., & Suskauer, S.J. (2019). Motor Subtle Sign Exam Improves Discrimination of Adolescents with and without Sports Related Concussion. *Journal of Motor Behavior*. doi:10.1080/00222895.2019.1570908.

Boles, R.E., Johnson, S.L. Burdell, A., **Davies, P.L.**, Gavin, W.J., & Bellows, L.L., (2019). Home food availability and child intake among rural families at high risk for childhood obesity. *Appetite*, 134, 135-141. doi.org/10.1016/j.appet.2018.12.002.

Crasta, J.E., Thaut, M.H., Anderson, C.W., **Davies, P.L.** & Gavin, W.J. (2018). Auditory Priming Improves Neural Synchronization in Auditory-Motor Entrainment. *Neuropsychological*, 117, 102-112. <https://doi.org/10.1016/j.neuropsychologia.2018.05.017>.

- Taylor, B.K., Gavin, W.J., Grimm, K.J. Passantino, D.E., & **Davies P.L.** (2018). Modeling the interrelationships between brain activity and trait attention measures to predict individual differences in reaction times in children during a Go/No-Go task. *Neuropsychologia*, *109*, 222-231. <https://doi.org/10.1016/j.neuropsychologia.2017.12.025>.
- Bellows, L., **Davies, P.L.**, Courtney, J.B., Gavin, W.J., Johnson, S.L., & Boles R.E. (2017). Motor skill development in low-income, at-risk preschoolers: A community-based longitudinal intervention study. *Journal of Science and Medicine in Sport*, *20*, 1997-1002. <https://doi.org/10.1016/j.jsams.2017.04.003>
- Benjamin, T., Lucas-Thompson, R., Little, **Davies, P.L.**, & Khetani, M.A. (2017). Participation in early childhood educational environments for young children with and without developmental disabilities and delays: A mixed methods study. *Physical and Occupational Therapy in Pediatrics*, *37:1*, 87-107 DOI: 10.3109/01942638.2015.1130007
- Taylor, B.K. Gavin, W.J., & **Davies, P.L.** (2016). The test-retest reliability of the visually-evoked contingent negative variation (CNV) in children and adults. *Developmental Neuropsychology*, *41* (3), 162-175. DOI: 10.1080/87565641.2016.1170835.
- Brett-Green, B.A., Rush, S.F., Shepherd, J., Sharpless, N., Gavin, W.J., & **Davies, P.L.** (2016). A preliminary comparison of multisensory integration in boys with autism spectrum disorder and typically developing controls. *International Journal of Neurology Research*. *2* (1), 241 – 235. DOI:10.17554/j.issn.2313-5611.2016.02.45
- Johnson, S.L., **Davies, P.L.**, Boles, R.E., Gavin, W.J., & Bellows, L.L. (2015). Young children's food neophobia and sensory behaviors are related to their food intake. *The Journal of Nutrition*, *145*(11), 2610-2616. doi: 10.3949/jn.115.217299
- Khetani, M.A., Graham, J.E., Davies, P.L., Law, M.C., & Simeonsson, R.J. (2015). Psychometric properties of the Young Children's Participation and Environment Measure (YC-PEM). *Archives of Physical Medicine and Rehabilitation*, *96*, 307-316. doi: <http://dx.doi.org/10.1016/j.apmr.2014.09.031>
- Boles R.E., Burdell, A., Johnson, S.L., Gavin, W.J., **Davies, P.L.**, & Bellows, L. (2014). Home food and activity assessment: Development and validation of an instrument for diverse families of young children. *Appetite*, *80*, 23-27. DOI: 10.1016/j.appet.2014.04.026
- Bellows, L., Johnson, S.L., **Davies, P.L.**, Anderson, J., Gavin, W.J., & Boles R.E. (2013). The Colorado LEAP Study: Rationale and design of a study to assess the short term longitudinal effectiveness of a preschool nutrition and physical activity program. *BMC Public Health*, *13*, 1-9. DOI: 10.1186/1471-2458-13-1146
- Davies, P.L.**, Schelly, C.L., & Spooner, C.L. (2013). Measuring the effectiveness of universal design for learning intervention in postsecondary education. *Journal of Postsecondary Education and Disability*, *26*(3), 195-220.

- Bellows, L., **Davies, P.L.**, Anderson, J., & Kennedy, C. (2013). Effectiveness of a Physical Activity Intervention for Head Start Preschoolers: A Randomized Intervention Study. *American Journal of Occupational Therapy*, 67, 28-36. doi.org/10.5014/ajot.2013.005777
- Chang, W-P, Gavin, W.J. & **Davies, P.L.** (2012). Bandpass filter settings differentially affect measurement of P50 sensory gating in children and adults. *Clinical Neurophysiology*, 123, 2264-2272. http://dx.doi.org/10.1016/j.clinph.2012.03.019
- Bellows L.L., Silvernail, S., Caldwell, L., Bryant, A., Kennedy, C., **Davies, P.L.**, & Anderson J. (2011). Parental perception on the efficacy of a physical activity program for preschoolers. *Journal of Community Health*, 36, 231-237. doi:10.1007/s10900-010-9302-1
- Gavin, W.J., Dotseth, A., Roush, K.K, Smith, C.A., Spain, H.D. & **Davies, P.L.** (2011). Electroencephalography in children with sensory processing disorders during auditory perception. *American Journal of Occupational Therapy*, 65, 370-377. doi: 10.5014/ajot.2011.002055
- Schelly, C.L., **Davies, P.L.**, & Spooner, C.L. (2011). Student perceptions of faculty implementation of universal design for learning. *Journal of Postsecondary Education and Disability*, 24(1), 15-28.
- Chang, W-P, **Davies, P.L.** & Gavin, W.J. (2010). Individual differences in error monitoring in healthy adults: Psychological symptoms and antisocial personality characteristics. *European Journal of Neuroscience*, 32, 1388-1396. doi:10.1111/j.1460-9568.2010.07384.x.
- Davies, P.L.**, Chang, W-P., & Gavin, W.J. (2010). Middle and late latency ERP components discriminate between adults, typical children, and children with sensory processing deficits. *Frontiers in Neurosciences*, 4(16), 1-9. doi: 10.3389/fnint.2010.00016
- Schaaf, R.C., & **Davies, P.L.** (2010). The evolution of the sensory integration frame of reference. *American Journal of Occupational Therapy*, 64(3), 363-367.
- Davies, P.L.**, & Tucker, R. (2010). Evidence review to investigate the support for subtypes of children with difficulty processing and integrating sensory information. *American Journal of Occupational Therapy*, 64 (3), 391-402.
- Chang, W-P, **Davies, P.L.** & Gavin, W.J., (2009). Error monitoring in college students with attention-deficit/hyperactivity disorder. *Journal of Psychophysiology*, 23(3), 113-125. Doi: 10.1027/0269-8803.23.3.113.
- Hwang, J-L & **Davies, P.L.** (2009). Brief Report - Rasch analysis of the School Function Assessment provides additional evidence for the meaningfulness of the activity performance scales. *American Journal of Occupational Therapy*, 63, 369-373.
- Bellows, L., Anderson, J., **Davies, P.**, & Kennedy, C. (2009) Integration of social marketing elements in the design of a physical activity program for preschoolers. *Social Marketing Quarterly*, 15(1): 2-21.
- Davies, P.L.**, Chang, W-P., & Gavin, W.J. (2009). Maturation of sensory gating performance in children with and without sensory processing disorders. *International Journal of Psychophysiology*, 72, 187-197.

- Brett-Green, B., Miller, L.J., Gavin, W.J. & **Davies, P.L.** (2008). Multisensory integration in children: A preliminary study. *Brain Research, 1242*, 283-290.
- Davies, P.L.** & Gavin, W.J. (2007). Validating the diagnosis of Sensory Processing Disorders using EEG technology. *American Journal of Occupational Therapy, 61*(2), 176-189.
- Davies, P.L.**, Soon, P.L., Young, M., & Clausen-Yamaki, A. (2004). Validity and reliability of School Function Assessment in elementary school students with disabilities. *Physical and Occupational Therapy in Pediatrics, 24*(3), 23-43.
- Davies, P.L.**, Segalowitz, S.J., & Gavin, W.J. (2004). Development of error-monitoring event-related potentials in adolescents. *Annals of the New York Academy of Sciences, 1021*, 324-328.
- Segalowitz, S.J., & **Davies, P.L.** (2004). Charting the maturation of the frontal lobe: an electrophysiological strategy. *Brain and Cognition, 55*, 116-133.
- Davies, P.L.**, Segalowitz, S.J., & Gavin, W.J. (2004). Development of response-monitoring ERPs in participants 7- to 25-year olds. *Developmental Neuropsychology, 25*(3), 355-376.
- Dankert, H., **Davies, P.L.**, & Gavin, W.J. (2003). Occupational therapy effects on visual-motor skills in preschool children. *American Journal of Occupational Therapy, 57*(5), 542-549.
- Hwang, J-L., **Davies, P.L.**, Taylor, M.P., & Gavin, W.J. (2002). Validation study of the School Function Assessment of elementary school children. *Occupational Therapy Journal of Research, 22*(2), 1-11.
- Pailing, P.E., Segalowitz, S.J., Dywan, J., & **Davies, P.L.** (2002). Error negativity and response control. *Psychophysiology, 39*, 198-206.
- Davies, P.L.**, Segalowitz, S.J., Dywan, J., & Pailing, P.E. (2001). Error-negativity and positivity as they relate to other ERP indices of attentional control and stimulus processing. *Biological Psychology, 56*, 191-206.
- Davies, P.L.** & Rose, J.D. (2000). Motor skills of typically developing adolescents: Awkwardness or improvement? *Physical & Occupational Therapy in Pediatrics, 20*(1), 19-42.
- Davies, P.L.** & Gavin, W.J. (1999). Quantitative research series: Measurement issues in treatment effectiveness studies. *American Journal of Occupational Therapy, 53*, 363-372.
- Davies, P.L.** & Rose, J.D. (1999). Assessment of cognitive development in adolescent performance by a means of neuropsychological assessments. *Developmental Neuropsychology, 15*(2), 227-248.
- Davies, P.L.** & Case-Smith, J. (1998). A focus on quantitative research methodologies: Introduction to series. *American Journal of Occupational Therapy, 52*, 523-530.
- Davies, P.L.** & Gavin, W.J. (1994). Comparison of individual and group/consultation treatment methods for developmentally delayed preschool children. *American Journal of Occupational Therapy, 48*, 155-161.

Refereed Chapters in Books

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- Davies, P.L.** (2012). Pediatric occupational Therapy in the United States: Understanding Laws, Policies, and Regulations for practice. In S.L. Lane & A.C. Bundy (Eds.), *Kids can be kids: A childhood occupations approach* (pp.203-219). Philadelphia: F.A. Davis.
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JURIED PRESENTATIONS

- 2019 Crasta, J. E., **Davies, P. L.**, & Gavin, W. J. Sensory processing predicts social responsiveness in adults with autism. Annual Conference and Expo of the American Occupational Therapy Association. New Orleans, LA, USA, April 4, 2019.
- 2018 Stephens, J., Cawthorne, J., Lin, M., Gavin, W., and **Davies, P.L.** Neural attention allocation in non-concussed youth for future use in adolescents with sports related concussion. Poster presentation at the American Congress of Rehabilitation Medicine Conference in Dallas, TX, October 2018.
- Lin, M., Stephens, J., Gavin, W. and **Davies, P.L.** The test-retest reliability of error-related negativity (ERN) and error positivity (Pe) amplitudes in neurotypical children and adults. Poster presentation at the Society for Psychophysiological Research Conference in Quebec City, Canada, October 3 – 6, 2018.
- Stephens, J. & **Davies, P.L.** Diminished motor performance in young athletes clinically recovered from sports related concussion. Oral presentation at the 7th annual OT Summit of Scholars in Kansas City, MO, June 8 - 9, 2018.
- 2018 Lin, M., **Davies, P. L.**, & Gavin, W. J. The underlying neural mechanisms of performance monitoring and information processing in children: an electroencephalogram (EEG) study. Oral presentation at the 7th annual Occupational Therapy Summit of Scholars conference, Kansas City, MO, USA, June 8 - 9, 2018.

Crasta, J. E., Gavin, W. J., & **Davies, P. L.** Attention impacts sensory processing in individuals with Autism Spectrum Disorders. Oral presentation at the 7th annual Occupational Therapy Summit of Scholars. Kansas City, MO, USA, June 8 - 9, 2018.

Crasta, J. E., Gavin, W. J., & **Davies, P. L.** Examining the effects of attention on sensory registration in Autism Spectrum Disorders. Poster presented at the International Society for Autism Research Conference. Rotterdam, Netherlands. May, 2018.

Crasta, J. E., **Davies, P. L.**, & Gavin, W. J. Behavioral and neural sensory processing in young adults with Autism Spectrum Disorder. Annual Conference and Expo of the American Occupational Therapy Association. Salt Lake City, UT, USA, April 19, 2018.

2017 Stephens, J., Davies, P.L., **Gavin, W.J.**, & Suskauer, S. Use of Multiple Assessments Improves Discrimination between Adolescents with Concussion from Uninjured Peers. ACRM 94th Annual Conference, Progress in Rehabilitation Medicine, Atlanta, GA, October 28, 2017.

Gavin, W.J., Taylor, B.K., & **Davies, P.L.** A unified model of event-related potentials as phases of stimulus-to-response processing. Society for Psychophysiological Research Annual Meeting, Vienna, Austria, October 11 – 15, 2017.

Lin, M-H, **Davies, P.L.**, & Gavin, W.J. Relationship between the error-related negativity (ERN) and social interaction in typically developing children. Society for Psychophysiological Research Annual Meeting, Vienna, Austria, October 11 – 15, 2017.

Mascarenhas, J.C., Gavin, W.J., & **Davies, P.L.** Effect of attention on P50 sensory gating. Society for Psychophysiological Research Annual Meeting, Vienna, Austria, October 11 – 15, 2017.

Mascarenhas, J.C., **Davies, P.L.**, & Gavin, W.J. Examining the impact of distraction on sensory gating in neurotypical individuals and individuals with autism. Annual Occupational Therapy Summit of Scholars, Boston, MA, USA, June 2, 2017.

Lin, M-H., **Davies, P.L.** & Gavin, W.J. Relationship between electroencephalographic (EEG) measures of response monitoring ability and occupational performance in children. Annual Occupational Therapy Summit of Scholars, Boston, MA, June 2, 2017.

Lin, M-H., Mascarenhas, J.C., Davies, P.L., Marshall, M.S., LaGasse, B., & Gavin, W.J. Attention and sensory characteristics in children with high functioning autism and sensory processing disorder. American Occupational Therapy Association Conference, Philadelphia, PA, USA. March 31, 2017.

- 2016 Crasta, J. E., Gavin, W. J., & **Davies, P. L.** Expanding Our Understanding of Sensory Gating in Autism Spectrum Disorders. Society for Psychophysiological Research, Minneapolis, MN, USA. September 21-24, 2016.
- Davies, P. L.**, Crasta, J. E., Thaut, M. H., & Gavin, W. J. Auditory Priming Improves Neural Synchronization in Auditory-motor Entrainment. Society for Psychophysiological Research, Minneapolis, MN, USA. September 21-24, 2016.
- Lin, M. H., Gavin, W. J. & **Davies, P. L.** Developmental Trends of Theta Power Following Correct and Incorrect Responses During a Flanker Task. Society for Psychophysiological Research, Minneapolis, MN, USA. September 21-24, 2016.
- Taylor, B. K., Davies, P. L., & Gavin, W. J. Structural Equation Modeling Indicates Varying Roles of Attention in Children Performing a Go-NoGo Task across Sessions. Society for Psychophysiological Research, Minneapolis, MN, USA. September 21-24, 2016.
- Crasta, J. E., **Davies, P. L.**, Forney, E., Anderson, W. S., & Gavin, W. J. Clinical Applications using Brain Computer Interface Systems. Presented at the 14th Rett Syndrome Symposium, Itasca, IL, June 24.
- Crasta, J. E., **Davies, P. L.**, & Gavin, W. J. Considerations for BCI development in children with autism (ASD). Presented at a Satellite meeting of the International Brain-Computer Interface (BCI) Meeting, Pacific Grove, CA. June 3, 2016.
- Forney, E. M., Anderson, C. W., **Davies, P. L.**, Gavin, W. J., Roll, M., Crasta, J. E., Taylor, B. K. Detecting P300 ERPs with convolutional networks, 6th International Brain-Computer Interface Meeting, Pacific Grove, CA, United States, June 1, 2016.
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- Forney, E. M., Anderson, C. W., Ryzhkov, I., Gavin, W. J., **Davies, P. L.**, Roll, M., Crasta, J. E., Taylor, B. K., Vafaei, F. CEBL3: A new software platform for EEG analysis and rapid prototyping of BCI technologies, 6th International Brain-Computer Interface Meeting, Pacific Grove, CA, United States, May 31.
- Crasta, J. E., Lagasse, A. B., Gavin, W. J., **Davies, P. L.** Sensory gating and sensory processing in children with high-functioning autism spectrum disorders, American Occupational Therapy Association 96th Annual Conference & Expo, Chicago, IL. April 10.

2016 Marshall, E., Khetani, M. A., Lagasse, A. B., Lin, M.-h., Crasta, J. E., Gavin, W. J., **Davies, P. L.** Brain-behavior relationships measuring attention differences among children with autism and age-matched peers. American Occupational Therapy Association 96th Annual Conference & Expo, Chicago, IL. April 10.

2015 **Davies, P. L.**, Crasta, J.E., Lin, M-h., Marshall, E., Gavin, W. J. Neural mechanisms underlying sensory and cognitive behaviors impacting function in children with autism (ASD) and sensory processing disorders (SPD). Paper presented at Occupational Therapy Association of Colorado, October, 24.

Taylor, B. K., **Davies, P. L.**, & Gavin, W. J. Differential strategies in children and adults during a visual Go-NoGo task across two sessions. Society for Psychophysiological Research, Seattle, WA. September 30 - October 4.

Crasta, J. E., Gavin, W. J., LaGasse, B., & **Davies, P. L.** An electrophysiological study of auditory processing in children with high functioning autism spectrum disorders. Society for Psychophysiological Research, Seattle, WA. September 30 - October 4, 2015.

Dungan, S., Crasta, J. E., **Davies, P. L.** & Gavin, W. J. Sensory gating in children with high functioning autism. Society for Psychophysiological Research, Seattle, WA. September 30 - October 4, 2015.

Lin, M-H., Gavin, W. J. & **Davies, P. L.** Developmental trend of error-related negativity (ERN) in 7-to 25-year-olds after adjusting for trial-to-trial variability. Society for Psychophysiological Research, Seattle, WA. September 30 - October 4, 2015.

Bellows L, **Davies P.L.**, Gavin W.J., Johnson S.L., & Boles R.E. Evaluating two models depicting the relationships between physical activity, gross motor skills, perceived athletic competence, fitness and weight status in preschoolers. International Society for Behavioral Nutrition and Physical Activity, Edinburgh, Scotland. June 2-4, 2015.

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Davies, P. L., Bellows, L., Gavin, W. J., Johnson, S.L., Boles, R.E. Validating a preschool obesity prevention study by defining the relationships between physical activity, gross motor skills, fitness, and healthy weight. Paper presented at the Third Annual Occupational Therapy Summit of Scholars, Los Angeles, CA. May 1.

Davies, P. L., Bellows, L., Gavin, W. J., Johnson, S.L., Boles, R.E. Obesity prevention study: Physical activity program improved gross motor skills in preschool children. American Occupational Therapy Association 95th Annual Conference & Expo Nashville, TN. April 18.

Crasta, J., **Davies, P. L.** LaGasse, B., & Gavin, W. J. Sensory registration among children with high-functioning autism spectrum disorders. American Occupational Therapy Association 95th Annual Conference & Expo Nashville, TN. April 16.

- 2014 The, K. J., Taylor, B. K., Crasta, J., Lin, M., Forney, E. M., Anderson, C. W., **Davies, P. L.** & Gavin, W. J. An Exploration of BCI2000 Utility across Multiple Sessions. Society for Psychophysiological Research, Atlanta, GA, USA. September 10-14.
- Gavin, W. J., Taylor, B. K., Segalowitz, S. J. & **Davies, P. L.** A Trial-by-Trial Distribution-Based, Outlier-Rejection Approach to Creating Averaged ERPs for Contingent Negative Variation Paradigms. Society for Psychophysiological Research, Atlanta, GA, USA. September 10-14.
- Taylor, B. K., **Davies, P. L.** & Gavin, W. J. Test-Retest Reliability of the Visually-Evoked Contingent Negative Variation in Children and Adults. Society for Psychophysiological Research, Atlanta, GA, USA. September 10-14.
- Johnson, B. J., Taylor, B. K., **Davies, P. L.** & Gavin, W. J. Error Monitoring and Working Memory Load: Presence and Alteration of a Late Positivity in Stimulus-Locked ERPs. Society for Psychophysiological Research, Atlanta, GA, USA. September 10-14.
- Burdell A, Bellows L, Johnson S.L., **Davies P.L.**, Gavin W.J., Boles R.E. The modification of a home assessment tool for rural families with young children. *International Society for Behavioral Nutrition and Physical Activity*, San Diego, CA, May.
- Johnson S.L., **Davies P.L.**, Boles R.E., Gavin W.J., Bellows L. Developmental aspects of preschoolers' exploratory eating behaviors, food refusal and food preference. *International Society for Behavioral Nutrition and Physical Activity*, San Diego, CA, May.
- Davies, P.L.**, Anderson, C.W., Gavin, W.J., & Roll, M. Translating Thoughts into Action by Finding Patterns in Brain Signals: A Comparison of EEG Systems with Brain Computer Interfaces in Home Environments. Paper presented at the Third Annual Occupational Therapy Summit of Scholars. Philadelphia, PA. May 9.
- Marshall, E., **Davies, P.L.**, Gavin, W.J. A neurological approach measuring attentional variations among children with high-functioning autism spectrum disorder & age-matched peers. American Occupational Therapy Association 94th Annual Conference & Expo, Baltimore, MD, April 5.
- 2013 **Davies P.L.** & Gavin, WJ (Chairs). Symposium 2.2: Translational Research on Brain Computer Interfaces (BCI): From the Lab to the Home. Society for Psychophysiological Research, Florence, Italy. October 3.
- Anderson, C.W, Gavin, W.J., Forney, E.M., Taylor, B.K., & Davies, P.L. A Comparison of EEG Systems for Use with Brain Computer Interfaces in Home Environments. Society for Psychophysiological Research, Florence, Italy. October 3.
- Taylor, B.K., Forney, E.M., Gavin, W.J, Anderson, C.W., & **Davies, P.L.** The Role of Attention in Predicting Individual Success Operating Non-Invasive Brain-Computer Interfaces. Society for Psychophysiological Research, Florence, Italy. October 2 – October 6.

- 2013 Chang, W-P., Gavin, W.J, & **Davies, P.L.** Test-Retest Reliability of N100 and P200 Sensory Gating Measures in Adults and Children. Society for Psychophysiological Research, Florence, Italy. October 2 – October 6.
- Anderson, C., Davies, P., Gavin, W., & Roll, M. Conducting BCI Experiments in the Home. Workshop at the Fifth International Brain-Computer Interfaces Meeting. Asilomar Conference Center, Pacific Grove, CA. June 3-7.
- Taylor, B., Forney, E., Gavin, W., Anderson, C., & **Davies, P.** The N100 of Averaged ERPs Predicts LDA Classifier Success on an Individual Basis. Fifth International Brain-Computer Interfaces Meeting. Asilomar Conference Center, Pacific Grove, CA. June 3-7.
- Forney, E., Anderson, C., **Davies, P.**, Gavin, W., Taylor, B., & Roll, M. A Comparison of EEG Systems for Use in P300 Spellers by Users with Motor Impairments in RealWorld Environments. Fifth International Brain-Computer Interfaces Meeting. Asilomar Conference Center, Pacific Grove, CA. June 3-7.
- Forney, E.M., Anderson, C., Gavin, W., & **Davies, P.** A Stimulus-Free Brain-Computer Interface Using Mental Tasks and Echo State Networks. Fifth International Brain-Computer Interfaces Meeting. Asilomar Conference Center, Pacific Grove, CA. June 3-7.
- Burdell, A., Bellows, L., Johnson, S.L., **Davies, P.L.**, Gavin, W., Boles, R.E. Assessing home food availability and dietary consumption of preschool aged children in rural communities. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.
- Johnson, S.L., Biglin, C., Williams, K., Boles, R.E., **Davies, P.L.**, Gavin, W., Bellows, L. What is there to be afraid of? Young children's conceptions and experiences of trying new foods. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.
- Bellows, L., Johnson, S.L., **Davies, P.L.**, Gavin, W., Boles, R.E. Design and participant characteristics for the Colorado LEAP Study: A longitudinal study for obesity prevention in early childhood. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.
- Bellows, L., Gavin, W., Johnson, S.L., Boles, R.E., **Davies, P.L.** Effectiveness of a Preschool Physical Activity Intervention on Gross Motor Skills: The Colorado LEAP Study. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.
- Johnson, S.L., Boles, R.E., **Davies, P.L.**, Gavin, W., Bellows, L. Children's oral sensory characteristics mediate parent child feeding responses to their child's neophobia. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.
- Boles, R.E., Johnson, S.L., **Davies, P.L.**, Gavin, W., Burdell, A., Bellows, L. Physical and social determinants of early child fruit and vegetable intake: A mediation analysis. International Society for Behaviors in Nutrition and Physical Activity, Ghent, Belgium. May 22-25.

- 2013 Schelly, C. & **Davies, P.L.** Transition success for students with disabilities: Using goal attainment scaling as an intervention strategy and a measurement tool. AOTA, San Diego, CA April 27.
Johnson, S.L., **Davies, P.L.**, Boles, R.E., Gavin, W., Bellows, L. Parent reports of young children's sensory characteristics are related to children's food neophobia. *Experimental Biology*, Boston, MA. April 20-24.
- 2012 Phelan, S.E., **Davies, P.L.**, & Gavin, W.J. Attentional demands do affect amplitudes of N1 and N2 in the sensory gating paradigm in neurotypical adults and children. Society for Psychophysiological Research, New Orleans, Louisiana. September 19 – September 21.
- Chang, W-P., Gavin, W.J., & **Davies, P.L.** Investigating the flanker effect on motor response in adults and children. Society for Psychophysiological Research, New Orleans, Louisiana. September 19 – September 21.
- Schelly, C. & **Davies, P.L.** Developing, Measuring and Achieving Transition Goals through Goal Attainment Scaling. AHEAD 2012 Conference, New Orleans, July 11.
- Davies, P.L.**, Gavin, W.L., Stokes, S., Klee, T., Chinnery, M., & Roberts, C. Auditory Sensory Memory and Language Development in 2 to 5 Year Olds. Sixth Annual Conference on Mismatch Negativity and its Clinical and Scientific Application, New York, May 1- May 4.
- Schelly, C. & Davies, P.L. Transition success for students with disabilities: Using goal attainment scaling as an intervention strategy and a measurement tool. AOTA, San Diego, CA April 27.
- 2011 **Davies, P.L.** AOTA Practice Guidelines: What they are and how you can use them to enhance your client care. Occupational Therapy Association of Colorado Annual Conference, Westminster, Colorado, October 29.
- Davies, P.L.** & Gavin, W.L. New research explaining brain physiology underlying sensory processing disorders using electroencephalography and behavioral measures. Occupational Therapy Association of Colorado Annual Conference, Westminster, Colorado, October 28.
- Slentz, C.E., Gavin, W.J., **Davies, P.L.**, Examining N1 and N2 amplitudes in children and adults while varying perceptual load in visual flanker paradigms. Society for Psychophysiological Research, Boston, Massachusetts. September 14 – September 18.
- Gavin, W.J., Bulwan, C.F., & **Davies, P.L.** (2011). Attention manipulations affect phase-locked gamma and beta oscillations in sensory gating in children and adults. Society for Psychophysiological Research, Boston, Massachusetts. September 14 – September 18.
- Chang, W-P., Gavin, W.J., & **Davies, P.L.** (2011). Stimulus saliency affects phase-locked gamma and beta activity in sensory gating. Society for Psychophysiological Research, Boston, Massachusetts. September 14 – September 18.
- 2011 Schaaf, R., Watling, R., Koenig, K. & **Davies, P.** Using the AOTA Practice Guidelines for Children

and Adolescents with Difficulty Processing and Integrating Sensory Information to Enhance Your Practice. American Occupational Therapy Conference, Philadelphia, Pennsylvania, April 14-17.

Davies, P.L. & Gavin, W.L. Motor, Attention, and Neurophysiological Measures Differentiate Children with Sensory Processing Disorder from Typical Children. American Occupational Therapy Conference, Philadelphia, Pennsylvania, April 14-17.

Colgan, W., **Davies, P.L.** & Schelly, C. Effects of Universal Design for Learning Instructor Training as Perceived by Instructors and Students. American Occupational Therapy Conference, Philadelphia, Pennsylvania, April 14-17.

2010 Chang, W-P., Gavin, W.J., & **Davies, P.L.** Error-Related ERPs In Adults With and Without ADHD: Dissimilarity In Flanker and Go/Nogo Tasks. Society for Psychophysiological Research, Portland, Oregon. September 29 – October 3.

Chang, W-P., Gavin, W.J., & **Davies, P.L.** Individual Differences In Response Inhibition In Adults With and Without ADHD. Society for Psychophysiological Research, Portland, Oregon. September 29 – October 3.

Yadon, C.A., **Davies, P.L.**, & Gavin, W.J. P50 and N1 Brain Responses in a Habituation-Orienting ERP Paradigm Differ in Magnitude and Their Functional Significance. Society for Psychophysiological Research, Portland, Oregon. September 29 – October 3.

Brett-Green, B., Gavin, W.J., & **Davies, P.L.** Gamma to Beta Frequency Transition in Response to Auditory Stimulation: A Comparison of Children and Adults. Society for Psychophysiological Research, Portland, Oregon. September 29 – October 3.

2009 Chang, W-P., **Davies, P.L.**, & Gavin, W.J. Response Inhibition and Error Detection Related to Impulsiveness. Society for Psychophysiological Research, Berlin, Germany. October 21- 24.

Gavin, W.J., & **Davies, P.L.** Changing Perceptual Load in a Visual Flanker Task Affects ERN Amplitude. Society for Psychophysiological Research, Berlin, Germany. October 21- 24.

Gavin, W.J., & **Davies, P.L.** Reliability of ERN in a Visual Flanker Task in Adults. Society for Psychophysiological Research, Berlin, Germany. October 21- 24.

Davies, P.L., & Gavin, W.J. Reliability of ERN in Children Performing a Visual Flanker Task. Society for Psychophysiological Research, Berlin, Germany. October 21- 24.

Gavin, W.J., & **Davies, P.L.** Sensory and Cognitive Processing AEP components Discriminate between Adults, Children with/without Sensory Processing Deficits. Society for Research in Child Development, Denver, Colorado. April 2-4.

Chang, W-P., Gavin, W.J., & **Davies, P.L.** Dissociation of Error Monitoring and Response Inhibition in College Students with Attention-Deficit/Hyperactivity Disorder. Cognitive Neuroscience Society, San Francisco, CA. March 21-24.

- 2008 Yadon, C.A., Chang, W-P., **Davies, P.L.**, & Gavin, W.J. Reliability of P50 Sensory Gating Measures in Children and Adults. Society for Psychophysiological Research, Austin, Texas. October 1 – 5.
- Chang, W-P., **Davies, P.L.**, & Gavin, W.J. Individual Differences in Error-Related ERPS in College Students with and without ADHD. Society for Psychophysiological Research, Austin, Texas. October 1 – 5.
- Davies, P.L.**, Chang, W-P., & Gavin, W.J. Further Investigation of Brain Physiology Underlying Sensory Processing Disorders Using Electroencephalography. American Occupational Therapy Convention, Long Beach, CA, May 10-13.
- Davies, P.L.**, Gavin, W.J., & Segalowitz, S.J. An ERP Study of Error-Monitoring in Adolescence: Correlating Executive Functions to Within-Subject Variability in Brain Response. Society for Research on Adolescence, Chicago, Illinois. March 6-9.
- Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Target Audience input and integration of social marketing elements in the design of a physical activity program for preschoolers. Presented at the American Public Health Association's 136th Annual Meeting, San Diego, CA.
- Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Utilizing the Social Learning Theory in the development of a preschool physical activity program. Presented at the American Public Health Association's 136th Annual Meeting, San Diego, CA.
- Anderson, J., **Davies, P.**, Kennedy, C., Serrano, E., Bellows, L. Program Update – Year 4: Food Friends and Fun Moves – A Creative Approach to Obesity Prevention for Preschoolers and their Families. Presented at USDA CSREES NRI Annual Project Directors Meeting, Albuquerque, NM.
- Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Effectiveness of a preschool-based physical activity program on gross motor development and fitness of 3-to 5-year olds. Presented at the International Society for Behavioral Nutrition and Physical Activity Annual Conference, Banff, Alberta, Canada.
- Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Program Development and Process Evaluation of Food Friends Get Movin' with Mighty Moves™, a physical activity program for preschoolers. Presented at the International Society for Behavioral Nutrition and Physical Activity Annual Conference, Banff, Alberta, Canada.
- Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Effectiveness of a preschool-based physical activity program on gross motor development and fitness of 3-to 5-year olds. Presented at the 26th Annual Epidemiologic Research Exchange at the University of Colorado Health Sciences Center, Denver, Colorado.
- 2007 Brett-Green, B.A., Miller, L.J., Gavin, W.J., & **Davies, P.L.** MultiSensory Integration in Children: A Preliminary ERP Study. Society for Neuroscience 37th Annual Meeting, San Diego, California, November 3-7.

- 2007 Bellows, L., Anderson, J., **Davies, P.**, Kennedy, C. Development and evaluation of a physical activity component to an obesity prevention program for low-income preschoolers. American Public Health Association's 135th Annual Meeting, Washington, DC, November.
- Chang, W-P., Gavin, W.J., & **Davies, P.L.** Evaluating Bandpass Filter Settings for Measuring the P50 in Adults and Children. Society for Psychophysiological Research, Savannah, Georgia. October 17-21.
- Gavin, W.J., Segalowitz, S.J., & **Davies, P.L.** ERP Measures of Efficiency during Error Processing in Children. Society for Psychophysiological Research, Savannah, Georgia. October 17-21.
- Anderson, J., **Davies, P.**, Kennedy, C., Serrano, E., Bellows, L. Program Update – Year 3: Food Friends and Fun Moves – A Creative Approach to Obesity Prevention for Preschoolers and their Families. Presented at USDA CSREES NRI Annual Project Directors Meeting, Washington DC, June.
- Davies, P.L.**, Gavin, W.J., & Chang, W-P. Auditory Evoked Potentials Discriminate between Adults, and Children with and without Sensory Processing Disorders. Cognitive Neuroscience Society, New York, New York. May 5-8.
- Schults-Krohn, W., Brown, M., **Davies, P.L.**, Diamant, R., & Schlabach, T. Integrating Evidence from Neuroscience and Family Systems to Foster Childhood Occupations. American Occupational Therapy Conference, St. Louis, Missouri, April 20-23.
- Lieberman, D., Arbesman, M., **Davies, P.L.**, Polatajko, H., Koenig, K., May-Benson, T., Koomar, J., Lane, S., Schaaf, R. & Stallings-Sahler, S. Evidence-Based Practice Literature Review of occupational Therapy for Children and Adolescents with Sensory Processing Disorder/ Sensory Integrative Dysfunction. American Occupational Therapy Conference, St. Louis, Missouri, April 20-23.
- Elizabeth De Jongh, E., Kennedy, C., DeVoe, D., Edgar, J., Bellows, L., **Davies, P.**, & Anderson, J. Physical Fitness in Preschool Children: Its Relationship with Physical Activity and fundamental Locomotor Skills. Presented at the national conference of the Art and Science of Health Promotion, San Francisco, CA. March, 2007.
- 2006 Chang, W-P., Gavin, W.J. & **Davies, P.L.** Validating modifications to the sensory gating ERP paradigm. Society for Psychophysiological Research, Vancouver. October 25-29.
- Gavin, W.J., Chang, W-P. & **Davies, P.L.** Manipulation of Attention in the Sensory Gating ERP Paradigm. Society for Psychophysiological Research, Vancouver. October 25-29.
- Chang, W-P., Gavin, W.J. & **Davies, P.L.** Classification of Children with and without Sensory Processing Disorders Using Sensory Gating Measures. DRPG Retreat, Estes Park, Colorado, May 10-12.

- 2006 Bellows, L., Anderson, J., Gould, S.M., **Davies, P.L.**, Kennedy, C., Auld, G. Formative Research for the Development of a Preschool Obesity Prevention Program. Presented at the Center for Disease Control Diabetes and Obesity Conference, Denver, CO, May 2006.
Brown, M., Schlabach, T., Clark, G.F., & **Davies, P.L.**, Diamant, R., & Schults-Krohn, W. Perspectives on Balancing Current Neuroscience Research and Family Systems to Benefit the Child. American Occupational Therapy Conference, Charlotte, North Carolina, April 27-30.
- 2005 **Davies, P.L.**, Segalowitz, S.J. & Gavin, W.J. Relationship of Error-related Negativity to Cognitive Skills From 7 to 18 Years. Society for Psychophysiological Research, Lisbon, Portugal. September 20-24, 2005.
- Sanichara, S.P., Segalowitz, S.J., **Davies, P.L.**, Gavin, W.J., & Dywan J. Charting Developmental EEG Gamma Changes in the Auditory Modality. Society for Psychophysiological Research, Lisbon, Portugal. September 20-24, 2005.
- Daunhauer, L. , Gavin, W.J., & **Davies, P.L.** Relationship of the Evoked Gamma Band Response and P50 Suppression in Children with and without Sensory Processing Disorders. Society for Psychophysiological Research, Lisbon, Portugal. September 20-24, 2005.
- Gavin, W.J., **Davies, P.L.** & Chang, W-P. Predicting Sensory Gating Measures from Sensory Registration Measures in Children with and without Sensory Processing Disorders. Society for Psychophysiological Research, Lisbon, Portugal. September 20-24, 2005.
- Anderson, J., Bellows, L., Gould, SM, **Davies, PL**, Kennedy, C. Food Friends and Fun Moves: A Creative Approach to Obesity Prevention for Preschoolers and their Families. Presented at Food and Nutrition Extension Educators pre-conference to Society for Nutrition Education. Orlando, FL, July 2005.
- Anderson, J., Bellows, L., Gould, SM, **Davies, PL**, Kennedy, C. Food Friends and Fun Moves: A Creative Approach to Obesity Prevention for Preschoolers and their Families. Presented at USDA CSREES National Research Initiative (NRI) post-conference to Society for Nutrition Education. Orlando, FL, July 2005.
- Davies, P.L.**, Chang, W-P., & Gavin, W.J. Investigating brain physiology underlying Sensory Processing Disorders using electroencephalography. American Occupational Therapy Convention, Long Beach, CA, May 12-15.
- Gavin, W.J., Chang, W., & **Davies, P.L.** (2005). Explaining the Variability of Sensory Gating Measures in Children. Society for Research in Child Development, Atlanta, GA. April 7-10.
- 2004 Mozolic, B., **Davies, P.L.**, Segalowitz, S.J. & Gavin, W.P. (2004). Contingent negative variation and attention in children. Society for Psychophysiological Research 44th Annual Meeting, Santa Fe, NM, October 20-24.
- Chang, W-P., **Davies, P.L.**, & Gavin, W.J. (2004). Individual differences in sensory gating in children. Society for Psychophysiological Research 44th Annual Meeting, Santa Fe, NM, October 20-24.

- 2003 **Davies, P.L.**, Gavin, W.J., & Kisley, M. A. Developmental trends in sensory gating measured in young children. Society for Psychophysiological Research 43rd Annual Meeting, Chicago, IL, October 29 – November 2.
- Davies, P.L.**, Segalowitz, S.J., & Gavin, W.J. Development of error monitoring ERPs in adolescents. Adolescent Brain Development: Vulnerabilities and Opportunities, New York, NY, September 18-20.
- Davies, P.L.**, Gavin, W.J., & Segalowitz, S.J. Concurrent Change in Electrophysiological and Functional Performance of the Prefrontal Cortex from 7 to 25 years. Society for Research in Child Development, Tampa, FL, April 24-27.
- 2002 **Davies, P.L.**, Gavin, W.J., & Segalowitz, S.J. ERPs and neuropsychological tasks show prefrontal maturation in adolescents. Society for Neuroscience 32nd Annual Meeting, Orlando, November 2-7.
- Davies, P.L.**, & Segalowitz, S.J. Error-Related Negativity in children and adolescents. Society for Psychophysiological Research 42nd Annual Meeting, Washington, DC, October 2-6.
- Davies, P.L.**, Gavin, W.J., & Segalowitz, S.J. Development of contingent negative variation in children and adolescents. Society for Psychophysiological Research 42nd Annual Meeting, Washington, DC, October 2-6.
- Davies, P.L.**, Murphy, J.J., Oddo, C.R., & Beaver, K. Testing a Strategy for Assistive Computer Technology Intervention in Schools. American Occupational Therapy Convention, Miami Beach, FL, May 4.
- 2001 Segalowitz, S.J., & **Davies, P.L.** Separating vigilance and motor preparation in the CNV. Society for Psychophysiological Research 41st Annual Meeting, Montreal, Quebec, Canada, October 10-14.
- Davies, P.L.**, Hwang, J-L., Taylor, M.P., & Gavin, W.J. Validating the School Function Using Elementary School Children. American Occupational Therapy Convention, Philadelphia, PA, April 26.
- Taylor, M.P., **Davies, P.L.**, Gavin, W.J., & Hwang, J-L. A Validity Study of Assessment Measuring Functional Behavior in School-Aged Children With and Without Disabilities. Society for Research in Child Development, Minneapolis, MN, April 19-22.
- 2000 Segalowitz, S.J., **Davies, P.L.**, Pailing, P.E., & Stemmer, B. Error-related ERP responses: Error detection or beyond? Society for Psychophysiological Research 40th Annual Meeting, San Diego, California, October 18-22.
- Davies, P.L.**, & Segalowitz, S.J. Motivational effects on CNV. Society for Psychophysiological Research 40th Annual Meeting, San Diego, California, October 18-22.

- 2000 Pailing, P.E., Segalowitz, S.J., **Davies, P.L.** Speed of responding and the likelihood of error-like activity in correct trial ERPs. Society for Psychophysiological Research 40th Annual Meeting, San Diego, California, October 18-22.
- Reigstad, D., **Davies, P.**, Rogers, B., Arvedson, J., & Gavin, W. The Effects of Adaptive Equipment on the Oral Motor Function of Preschoolers with Cerebral Palsy. American Academy for Cerebral Palsy and Developmental Medicine 54th Annual meeting, Toronto, Ontario, September.
- 1999 Gavin, W.J. & **Davies, P.L.** Controlling “Regression to the Mean” effects in treatment efficacy studies. American Speech Association National Convention, San Francisco, CA, November 19.
- 1998 **Davies, P.L.**, Pailing, P.E., Segalowitz, S.J., Dywan, J. Comparison within subjects of two prefrontally generated ERPs: Contingent negative variation (CNV) and error-related negativity. Society for Psychophysiological Research 39th Annual Meeting, Granada, Spain, October 6-10.
- Pailing, P.E., **Davies, P.L.**, Segalowitz, S.J., Dywan, J. Error-related negativity (ERN) and impulsive responding. Society for Psychophysiological Research 39th Annual Meeting, Granada, Spain, October 6-10.
- Davies, P.L.**, Oddo, C.R. Research design in schools: Use of assistive technology for inclusion. American Occupational Therapy Convention, Indianapolis, April 18.
- Gavin, W.J. & **Davies, P.L.** Rethinking methods for controlling “Regression to the Mean” effects in treatment efficacy studies. Society for Research in Child Development, Albuquerque, NM, April 17.
- Davies, P.L.**, Segalowitz, S.J., Chevalier, H., Bernstein, D.M., & Lawson, S. How the presence of novel stimuli affects ERPs to targets. Society for Neuroscience Annual Meeting, Los Angeles. November 6.
- 1998 Reigstad, D., **Davies, P.L.**, Rogers, B., & Arvedson, J. The Effect of Adaptive Seating on the Oral-Motor Function of Preschoolers with CNS Disorder. American Occupational Therapy Convention, Baltimore, MD. April.
- 1997 **Davies, P.L.**, and Gavin, W.J. Convergent Validity of Two Instruments Assessing Stages of Pubertal Development. Society for Research in Child Development, Washington, DC. April.
- Davies, P.L.**, and Gavin, W.J. Transforming Routine Client Record Keeping into Outcome Research. American Occupational Therapy Convention, Orlando, Florida. April, 1997.
- 1996 **Davies, P.L.** Motor Improvement or Awkwardness in Typically Developing Adolescents. Presentation at the American Occupational Therapy Annual Conference, Chicago, April 19.
- 1995 **Davies, P.L.**, & Rose, J.D. Assessment of Cognitive Development in Adolescents by Means of Neuropsychological Tasks. Neuroscience Annual Meeting, San Diego, CA, November 11-16.

- 1993 **Davies, P.L.**, & Rose, J.D. Age and Gender Factors in Adolescent Motor Performance. Neuroscience Annual Meeting, Washington, D.C., November 7-12.
- 1990 **Davies, P.L.**, & Gavin, W.J. Evaluating the Effects of Individual Therapy Versus Group/Consultation Therapy on Preschool Children. The American Occupational Therapy Annual Conference, New Orleans, LA, April 29, 1990.
- 1988 **Davies, P.L.** & Thorpe, L. Adaptive Switch Construction: Make Your Own and Take Them Home. Three hour workshop in conjunction with the Kansas Occupational Therapy Association Spring Conference, Kansas City, Missouri, May 8.
- 1985 Lestz, N., Constance, J., **Davies, P.L.**, & Noller, K. Augmentative Communication Evaluation: An Integrated Team Approach. American Speech Association National Convention, Washington, D.C., November.

INVITED PRESENTATIONS

- 2018 **Davies, P.L.**, & Gavin, W.J. Neurophysiological measures underlying sensory processing disorders. Association of Pediatric Occupational Therapists Danish Occupational Therapy Association, Copenhagen, Denmark, November 26, 2018.
- Davies, P.L.**, & Gavin, W.J. Neurophysiological Measures of Sensory and Cognitive Functions in Typical Children and Children with Sensory Processing Disorders. 9th Annual Aalborg Symposium on the Advances in Neuropsychology and Neural Rehabilitation Engineering of Movement (ANRES2018), Aalborg University, Denmark, November 22 – 23, 2018.
- Davies, P.L.**, Lin- M-H., & Gavin, W.J. Neural mechanism of performance monitoring in a stimulus – motor response task in children. Progress in Clinical Motor Control I: Neurorehabilitation, Penn State, University Park, Pennsylvania, July 24, 2018.
- 2018 Lin. M., **Davies, P.L.**, & Gavin, W.J. Relationship between cognitive functions and occupational performance. CSU OT Knowledge Exchange, Fort Collins, CO, United States, April 29, 2018.
- 2017 Kothe, J., **Davies, P.L.**, Crasta, J.E., & Schelly, C.L. Innovative employment practices through the CHOICES project. TPSID Project Director Meeting, Orlando, FL, USA, July, 19, 2017.
- Davies, P.L.** & Gavin, W.J. Update on our research: Neurophysiological mechanisms related to sensory processing disorders. SPD Scientific Work Group, Denver, CO, USA, October 4, 2017.
- Davies, P.L.** & Gavin, W.J. Auditory sensory processing measured by electroencephalography (EEG/ERP) and attention performance. Neurophysiological Findings: Relationship to Function Panel at the 20th International 3S SPD Symposium, Denver, CO, USA, October 6, 2017.
- Lin, M., Mascarenhas, J.C., **Davies, P.L.**, Marshall, M.S., LaGasse, B., & Gavin, W.J. Attention and sensory characteristics in children with high functioning autism and sensory processing disorder. CSU OT Knowledge Exchange, Fort Collins, CO, USA. April 27, 2017.

- 2016 Bellows, L. L., **Davies, P. L.** Childhood obesity: Interdisciplinary Approaches to Intervention, CSU OT Knowledge Exchange, Fort Collins, CO, United States, April 29, 2016.
- 2015 **Davies, P. L.**, Bellows, L., Gavin, W. J., Johnson, S.L., Boles, R.E. Validating a preschool obesity prevention study by defining the relationships between physical activity, gross motor skills, fitness, and healthy weight. Paper presented at the Third Annual Occupational Therapy Summit of Scholars, Los Angeles, CA. May 1.
- Davies, P.L.**, Gavin, W.J., Anderson, C.W. Brain computer interface: Translating thoughts into action by finding patterns in EEG signals. Neuroscience Seminar, University of Wyoming, April 23, 2015.
- 2014 **Davies, P.L.** & Gavin, W.J. The Role of Attention in Sensory Processing Disorders: Neurophysiological and Behavioral Measures. SPD Foundation 17th International 3S Symposium, Tempe, AZ, November 7, 2014.
- 2014 Anderson, C.S., **Davies, P.L.**, Gavin, W.J. Identification of spatio-temporal patterns in EEG related to mental tasks for brain-computer interfaces. Molecular Cellular and Integrative Neurosciences seminar, Colorado State University, October, 28.
- Anderson, C.S., **Davies, P.L.**, Gavin, W.J. Brain-computer interface projection at Colorado State University. Craig Hospital Introduction to Colorado State University Academic Programs, May 23.
- Davies, P.L.** & Gavin, W.J. Understanding attention deficits in children with disorders: Neurophysiological and behavioral measures. Occupational Therapy seminar (OT792), Colorado State University, April 23.
- Davies, P.L.** Tips regarding mentoring. Doctoral Network. AOTA 94th Annual Conference & Expo, Baltimore, MD, April 2.
- 2013 **Davies, P.L.** Promising Neurophysiological Biomarkers for Sensory Integrative Dysfunction and Sensory Processing Deficits USC Occupational Science Symposium XXIV: Sensory Integration at the Crossroads: Diverse Perspectives in Occupational Therapy. Los Angeles, California, November 7, 2013
- Davies, P.L.** What's New in Sensory Processing? Central Massachusetts Special Interest Group, October 8, 2013
- Anderson, C.W., & **Davies, P.L.** Translating thoughts into actions by finding patterns in brainwaves. Occupational Therapy seminar (OT792), Colorado State University, September 25.
- 2012 **Davies, P.L.** Autism and sensory processing disorders: Do distinguishing neurophysiological biomarkers exist? Canterbury Medical Research Institute Public Lecture, Christchurch, NZ, November 1, 2012.

- Davies, P.L.** Brain Computer Interface: Translating thoughts into action by finding patterns in brain signals. New Zealand Brain Research Institute, Christchurch, NZ, October 24, 2012.
- Gavin, W.J. & **Davies, P.L.** Maturation of executive functions: Electrophysiological and neurophysiological measures. Center for Brain, Biology and Behavior, University of Nebraska – Lincoln, June 12, 2012
- Gavin, W.L., **Davies, P.L.**, Stokes, S. & Klee, T. Measuring Auditory Sensory Memory in 2 to 5 year olds with the Time-saving Oddball Paradigm. Sixth Annual Conference on Mismatch Negativity and its Clinical and Scientific Application, New York, May 1- May 4.
- Davies, P.L.** & Gavin, W.J. Neurophysiological and Neurocognitive Mechanisms Underlying Behavioral Manifestations of SPD. SPD Scientific Work Group Summit, Boston, MA, March 16, 2012.
- 2012 **Davies, P.L.** & Gavin, W.J. Our Decade of Research on Identifying Underlying Neurocognitive Mechanisms in Children with Sensory Processing Disorders. SPD Foundation 14th International Symposium, Boston, March 18, 2012.
- Davies, P.L.** & Gavin, W.J. A Program of Research on identifying underlying neurophysiological mechanisms in children with sensory processing disorders. Occupational Science Summit, St Louis, MO, March 11-12.
- 2011 Gavin, W.J., & **Davies, P.L.** Brain Development from Childhood to Adulthood: Understanding individual differences using sensory ERP measures. Department of Psychology, New Zealand Institute of Language, Brain and Behaviour, University of Canterbury, Christchurch, New Zealand, June 28.
- Gavin, W.J., & **Davies, P.L.** Brain Development from Childhood to Adulthood: Understanding individual differences using EEG and ERP measures. Department of Psychology, Neuroscience Program, University of Otago, Dunedin, New Zealand, June 20.
- 2010 **Davies, P.L.** *Neurophysiological, Motor and Attentional Markers Differentiating Sensory Processing Disorders from Typical Development.* Human Development and Family Studies Seminar Series, Colorado State University, Fort Collins, Colorado, November 12.
- Anderson, C., & **Davies, P.L.** *Translating Thoughts and Actions by Finding Patterns in Brainwaves.* Biomedical Engineering Seminar Series, Colorado State University, Fort Collins, Colorado, November 5.
- 2009 **Davies, P.L.** Research/Outcomes for Disability Services Offices. Consortium of Support Programs for Students with Disabilities Representing Postsecondary Institutions in Colorado and Wyoming. Community College of Aurora, Aurora, CO, November 20.
- Davies, P.L.**, & Gavin, W.J. Electrophysiological Measures of Sensory Processing in Children with Sensory Processing Disorders and Autism. Developmental Psychobiology Research Group. University of Colorado Health Science Center, Aurora, CO, November 10.

- Davies, P.L.** Investigating the Brain Physiology Underlying Sensory Processing Disorders: Deficits in Auditory Detection and Filtering. Invited as the Caroline Thomson Lecturer, Occupational Therapy Program, University of Wisconsin, October 29.
- Davies, P.L.** Using Electroencephalography Measures as a Diagnostic Tool for Sensory Processing Disorders. Sensations to Emotion conference, New York, NY, March 2-3 (30 minute presentation).
- 2008 **Davies, P.L.** Brain Development & Sensory Processing Disorders: Implications for Education and Therapy. International Preschool Leadership Seminar, August 21.
- Gavin, W.J., & **Davies, P.L.** Measuring Changes in Brain Maturation in Adolescents. 2008 State 4-H Conference: 4-H The Key to Your Future, CSU, Fort Collins, CO, June 25 & 26 (a 2 hour presentation on each of two different days).
- 2008 **Davies, P.L.** Neurophysiological Measures of Sensory Gating as Diagnostic Markers of SPD. SPD Foundation 6th National Symposium, Denver, Colorado, April 19.
- 2007 **Davies, P.L.** & Gavin, W.J. Performance Monitoring and Error Processing are Essential Cognitive Processes for Successful Goal-directed Behavior. Department of Health and Exercise Science, Colorado State University, Fort Collins, November 30.
- Davies, P.L.** & Gavin, W.J. Validating Measures of Neurophysiological Dysfunction in Sensory Processing Disorders. SPD Foundation Research and Intervention Conference, New York, NY, November 10.
- Gavin, W.J. & **Davies, P.L.** Brain Responses to Auditory Stimuli Discriminates between Adults, Typical Children & Children with SPD. SPD Foundation Research and Intervention Conference, New York, NY, November 10.
- Davies, P.L.** Reflections and Research: What Fun It Has Been. Celebration of 30 Years of Neuroscience at UW & Festschrift-Roast in Honor of James D. Rose. University of Wyoming, April 27.
- Davies, P.L.** What's New Two: Validating the Diagnosis of SPD with EEG. KID Foundation 3rd Annual Conference, Denver, CO, April 14.
- 2006 **Davies, P.L.** Brain Development Infancy through Adolescence and Implications for Therapy. Nebraska Occupational Therapy Association, Omaha, Nebraska, August 26.
- Davies, P.L.** Sensory Processing Disorders and Its Impact on Children and Families: Diagnosis and Treatment Effectiveness. Occupational Therapy Research Symposium, Colorado State University, Fort Collins, Colorado, May 2.
- Davies, P.L.** Sensory Processing Disorders and Its Impact on Children and Families: Diagnosis and Treatment Effectiveness. Health Promotion and Disease Prevention Colloquium, Colorado State University, Fort Collins, Colorado, April 13.

- Bellows, L., Anderson, J., Gould, S.M., Auld, G., **Davies, P.L.**, Kennedy, C. Target Audience Input into the Development of Physical Activity Materials for the Food Friends and Mighty Moves Obesity Prevention Program for Preschoolers. Presented at Colorado State University's Health Promotion and Disease Prevention Colloquium, Fort Collins, CO, April 13.
- 2005 **Davies, P.L.** Brain Development Infancy through Adolescence and Implications for Therapy. Iowa Department of Education Bureau of Children, Family, and Community Service, Des Moines, Iowa, November 11.
- Davies, P.L.**, & Gavin, W.J. Validating Sensory Processing Disorders by Examining Brain Physiology: Recent EEG Data. Sensory Processing Disorder: New Scientific Findings, Bethesda, MD, October 9.
- 2005 **Davies, P.L.**, & Gavin, W.J. Relating Auditory Sensory Gating and Psychophysical ERP Measures to Sensory Processing Deficits. 2005 Sensory Processing Disorder – Scientific Work Group, Bethesda, MD, October 6.
- Davies, P.L.** Occupational Therapy Evidence-Based Practice. Wyoming Occupational Therapy Association Annual Conference, Cody, WY, August 4.
- Davies, P.L.** School Function Assessment Discussion. Wyoming Occupational Therapy Association Annual Conference, Cody, WY, August 4.
- Davies, P.L.**, & Gavin, W.J. Factors Involved in Sensory Gating Variability: Clinical Implications. Brock Institute for Electrophysiological Research, Brock University, St. Catharines, Ontario, Canada, July 5.
- Gavin, W.J., & **Davies, P.L.** Sensory Gating in Adults and Children: Methodological Issues. Brock Institute for Electrophysiological Research, Brock University, St. Catharines, Ontario, Canada, July 5.
- Davies, P.L.** Brain Maturation and Cognitive Event-Related Potentials. Neuroscience Research Group, University of Denver, April 22.
- Davies, P.L.** (2005). Electroencephalography Measures of Sensory Gating in Children and Adults. Physiology Club, University of Wyoming, March 10.
- Davies, P.L.**, Gavin, W.J. & Daunhauer, L. Converging Evidence for Brain Maturation: Multiple Electrophysiological Studies. Developmental Psychobiology Research Group. University of Colorado Health Science Center, Colorado Psychiatric Hospital Day Care Center Denver, CO, March 8.
- 2004 **Davies, P.L.** Discussion: Issues related to sensory integration. Occupational Therapy Association of Colorado Annual Conference Roundtable Discussion, Northglenn, CO, October 8-9.
- Davies, P.L.**, & Chang, W-P. Studying sensory processing disorders in children using electroencephalography. Occupational Therapy Association of Colorado Annual Conference, Northglenn, CO, October 8-9.

- Davies, P.L.** Motor and cognitive development in adolescence concomitant with pubertal hormonal changes. School of Sport Sciences, Waseda University, Mikajima Tokorozawa Saitama Japan. March, 10.
- Davies, P.L.** Occupational therapy evidence-based practice. Dept of Occupational Therapy, Faculty of Health Science, Yamagata Prefectural University of Health Science and Japanese Occupational Therapy Association, Yamagata city, Yamagata, Japan. March, 6-7.
- Davies, P.L.** Occupational therapy practices for children in United States. Dept of Occupational Therapy, Faculty of Health Science, Yamagata Prefectural University of Health Science, Yamagata city, Yamagata, Japan. March, 3 -5, 8.
- 2004 **Davies, P.L.,** & Gavin, W.J. Sensory gating measured by evoked potentials in children with sensory modulation dysfunction. Neurobiology of Sensory Processing Disorders Conference, Boulder, CO. February 6-8.
- 2003 **Davies, P.,** Miller, L.J., & Schoen, S. Sensory processing dysfunction: Research and treatment implications. Occupational Therapy Association of Colorado Annual Conference Roundtable Discussion, Northglenn, CO, October 10-11.
- Davies, P.L.** Rehab Science and Engineering Consortium (RSEC) Seminar. Denver, CO, March 26.
- Davies, P.L.** Cognitive Event-Related Potentials Seminar. Molecular, Cellular, Integrated Neuroscience Program. Colorado State University, Fort Collins, CO, January 29.
- 2002 **Davies, P.L.** Cognitive Event-Related Potentials and Brain Maturation. Developmental Psychobiology Research Group. University of Colorado Health Science Center, Colorado Psychiatric Hospital Day Care Center Denver, CO, September 24.
- 2001 **Davies, P.L.,** Pailing, P.E., Segalowitz, S.J., & Dywan, J. Comparison Within Subjects of Two Prefrontally Generated ERPs: Contingent Negative Variation (CNV) and Error-Related Negativity (ERN). Training Workshop National Center for Medical Rehabilitation Research, NIH, Bethesda, MD, December 4-5, 2001.
- Davies, P.L.** Brain Development in Childhood and Adolescence. Kids' Brains 2001:Healthy Connections for Our Future. The Metropolitan State College of Denver, CO, May 17.
- 2000 **Davies, P.L.** & Sainburg, R.S. Neurobasis for Rehabilitation. Rochester Public School District. Rochester, NY, May 26.
- Davies, P.L.** Neurodevelopmental Treatment: Evaluation and Intervention. United Cerebral Palsy Association of Western New York, Children's Center, Buffalo, NY, March 8.
- Davies, P.L.** Positioning and Handling based on Neurodevelopmental Treatment. United Cerebral Palsy Association of Western New York, Children's Center, Buffalo, NY, October 21.

- 1999 **Davies, P.L.** Neurodevelopmental Treatment Workshop. Catholic Health System, Inc. Kenmore Mercy Hospital, June 11-12.
- Davies, P.L.** Neurodevelopmental Treatment Inservice. United Cerebral Palsy Association of Western New York, Children's Center, Buffalo, NY, May 20.
- 1998 **Davies, P.L.** Prolonged Neurodevelopment of the Prefrontal Cortex and its Effect on Mental Ability. Department of Physical Therapy, Exercise and Nutrition Sciences, University at Buffalo, November.
- 1991 **Davies, P.L.,** Newton, M., & Yoder, D. Augmentative Communication. Workshop at University of Wyoming, Laramie, July 1-3.
- 1991 **Davies, P.L.** Neuro-Developmental Treatment. One-day workshop at the Wyoming State OT and PT conference, Casper, April.
- 1989 **Davies, P.L.** Augmentative Communication: Assessment and Treatment. Lecture to graduate students; Speech Language Pathology and Audiology Department, University of Wyoming, Laramie Wyoming, November 27 and 29.
- Davies, P.L.** Augmentative Communication: Treatment. Lecture to graduate students; Communication Disorders Department, University of Northern Colorado, Greeley, Colorado, November 26.
- Davies, P.L.** Neurodevelopmental Treatment: Assessment and Treatment Techniques. One-day workshop in conjunction with the Early Childhood Intervention in Kansas, 1989 Multidisciplinary Spring Conference, Lawrence, Kansas, March 4.
- 1988 **Davies, P.L.** Neurodevelopmental Treatment. One-day workshop in conjunction with the Early Childhood Intervention - 1988 Multidisciplinary Spring Conference, sponsored by Kansas Division for Early Childhood-Council for Exceptional Children, Kansas Department of Health and Environment, and Kansas State Department of Education, Wichita, Kansas, March 5.
- Davies, P.L.** Switches: Learn How to Make Them Yourself. Two hour workshop in conjunction with the Early Childhood Intervention, 1988 Multidisciplinary Spring Conference, Wichita, Kansas, March 4.
- 1987 **Davies, P.L.** & Noller, K. Neurodevelopmental Treatment: Theory and Application, St. Joseph Medical Center, Wichita, Kansas, November 6-7.
- 1986 **Davies, P.L.** How to Make Adaptive Switches for Toys, Institute of Logopedics, December 22.
- Davies, P.L.** & Noller, K. Normal and Abnormal Movement Patterns, Institute of Logopedics, January-April.
- Davies, P.L.** How to Make Adaptive Switches for Toys, Institute of Logopedics, December 22.

Davies, P.L. & Noller, K. Normal and Abnormal Movement Patterns, Institute of Logopedics, January-April.

1985 Lestz, N., Constance, J., **Davies, P.L.**, & Noller, K. Augmentative Communication: Evaluation and Implementation, Research Colloquium, Institute of Logopedics, Institute of Logopedics, May.

1983 **Davies, P.L.** Infant and Early Childhood Development, Institute of Logopedics, June-July.

UNIVERSITY TEACHING/INSTRUCTION

Courses Developed and Taught

University of Wyoming, Laramie, Wyoming

PSYC 2000 - Research Psychological Methods

PSYC 2310 - Exceptional Children

University at Buffalo, SUNY, Buffalo, New York

OT 410 - Neurophysiological Processes

OT 440 - Applied Treatment in Pediatrics

OT 515 - Advanced Evaluation and Treatment Principles: The Preschool Aged Child

OT 516 - Advanced Evaluation and Treatment Principles: The School Aged Child and Youth

OT 517 - Seminar: Principles of Occupational Therapy with the Physically Disabled

OT 598 - Neurodevelopmental Treatment (NDT): Principles and Intervention

Colorado State University, Fort Collins, Colorado

OT 302 - OT Contexts and Systems within Educational, Medical, and Community Models

OT 450 - Research & Evaluation in OT Practice

OT 601 – Occupation and Rehabilitation Science I

OT 602 – Theories and Occupational Therapy

OT 630 - Neurobehavioral Interventions in OT Practice I: Pediatrics

OT 632 - Neurobehavioral Interventions in OT Practice I: Pediatrics

OT 633 - Neurobehavioral Interventions in OT Practice I: Pediatrics - Lab

OT 670/681 - Evidence-Based Practice Research Seminar

OT640 – Research to Practice II

OT580A2 – Topics in Developing Brain and Performance

OT701 – Occupation and Rehabilitation Science III

OT565 – Topics in Brain Plasticity and Performance

UNIVERSITY THESIS AND DISSERTATION COMMITTEES

Colorado State University; Dissertation Chair

Mei-heng Lin (August 2018). The relationship between cognitive functions and occupational performance in children, adults, and adults with attention deficit hyperactivity disorders (ADHD) Occupation and Rehabilitation Science, Occupational therapy Department. Colorado State University.

Jewel Crasta (December 2017). Examining the Relationship between Sensory Processing and Attention in Individuals with Autism Spectrum Disorders. Occupation and Rehabilitation Science, Occupational therapy Department. Colorado State University.

Colorado State University; Dissertation Co-Chair

Susan Mingils (in progress). Occupation and Rehabilitation Science, Occupational therapy Department. Colorado State University.

Carly Yadon (2010). Three Types of Sensory Gating: Exploring Interrelationships, Individual Differences, and Implications. Department of Psychology. Colorado State University

Wen-Pin Chang (2008). The Relationship of Self-Regulation and Academic Achievement in College Students with and without Attention-Deficit/Hyperactivity Disorder: A Brain-Behavior. School of Education. Colorado State University.

Colorado State University; Thesis Chair

Rachel Sjostrand (in progress). Department of Occupational Therapy, Colorado State University.

Erica Jacoby (August 2018). Examining Sensory Gating and processing Speed in Adults with Autism Using EEG. Department of Occupational Therapy, Colorado State University.

Sunny Karges (August 2017). A Pilot Study: Inhibition in Eating Behavior of Children through Eating in the Absence of Hunger Paradigm and electroencephalography. Department of Occupational Therapy, Colorado State University.

Rae Berent (August 2017). The Impact of Music Therapy on Sensory Gating and Attention Abilities in Children with Autism Spectrum Disorder: A Feasibility Study. Department of Occupational Therapy, Colorado State University.

Katie Bruegger (August 2017). Increasing BCI Usability in the Home: Accessing the User and Caregiver Perspectives. Department of Occupational Therapy, Colorado State University.

Christine Grupe (2016). Auditory Sensory Processing in Children with Sensory Processing Disorder and Autism Spectrum Disorder. Department of Occupational Therapy, Colorado State University.

Jewel Crasta (2015). Sensory Registration in Children with High Functioning Autism. Department of Occupational Therapy, Colorado State University.

Emily Marshall (2015). A Neurological Approach Measuring Attentional Variations among Children with High-Functioning Autism Spectrum Disorder, Sensory Processing Difficulties and Age-Matched Peers. Department of Occupational Therapy, Colorado State University.

Melissa Argenti (2013). Sensory Processing Characteristics and Eating Behaviors in Preschool Children – an Occupational Therapy Perspective Department of Occupational Therapy. Colorado State University.

Catherine Greife (2013). P50 and N100 Event-Related Potential (ERP) Components in an Orientation/Habituation Paradigm with Neurologically Typical Adults: Possible Links to Sensory Deficits. Department of Occupational Therapy. Colorado State University.

Kelly Phares-Zook (2013). Phase-Locking of Gamma and Beta on an Auditory EEG Paradigm and Their Relationship to Self-Reported Sensory Sensitivities. Department of Occupational Therapy. Colorado State University.

Shannon Phelan (2012). Attention in Typical Adults and Children: Comparison of Behavioral and Electrophysiological Measures. Department of Occupational Therapy. Colorado State University.

Debbie Passantino (2011). The test of everyday attention for children: A confirmatory factor analysis approach. Department of Occupational Therapy. Colorado State University.

Wendy Colgan (2010). Effects of Universal Design for Learning Instructor Training as Perceived by Students and Instructors. Department of Occupational Therapy. Colorado State University.

Jayne Gonda Mohar (2010). Skills to Succeed: A Questionnaire Developed to Measure Self-advocacy Skills Before and After Intervention in University Students. Department of Occupational Therapy. Colorado State University.

Aimee LaFave (May 2007). A Comparison of Behavioral Attention Measures. Department of Occupational Therapy. Colorado State University.

Jordan Edgar (December 2007). Relationship of the Environment, Motor Skills, and Physical Activity and the Impact on Obesity in Preschool-aged Children: A pilot study. Department of Occupational Therapy. Colorado State University.

Wei-Yun (Wynne) Lai (December 2006). Contingent Negative Variation and Stimulus Preceding Negativity in Children. Department of Occupational Therapy. Colorado State University.\

Wen-Pin (Oliver) Chang (2004). Sensory Processing Deficits in Children Measured by Event-Related Potentials and the Sensory Profile. Department of Occupational Therapy. Colorado State University.

Beth Mozolic (2004). Contingent Negative Variation in Children. Department of Occupational Therapy. Colorado State University.

Pamela Muneto (August 2002). The Development of Additional Items to Measure Lower Level Play on the Test of Playfulness. Department of Occupational Therapy. Colorado State University.

Colorado State University; Thesis Co-Chair

Justine Cawthorne (2019). Evaluating Attention Allocation in Children to Young Adults with Single And Dual Task EEG Paradigm. Department of Occupational Therapy, Colorado State University.

Colorado State University, Chair, Plan B Projects

Kate Elston, Robin King, Denys Lewis, Elisha Nottingham, and Katie Ward (2010). Attention and the Reliability of P50 Sensory Gating Among Children with Sensory Processing Disorder and Typically Developing Children. Department of Occupational Therapy. Colorado State University.

Morgan Blado, Amanda Hoyer, Allison Montrie, Emily Sabelhaus (2010). Reliability of N100 and its Relationship to the TEA-Ch in Children with and without Sensory Processing Disorder. Department of Occupational Therapy. Colorado State University.

Liz Dennison, Danika Hong, Heather Moore, Rachel Wicker (2009-2010). Co-Chair. Sensory Gating and Attention Measures in Children with and without Sensory Processing Disorder. Department of Occupational Therapy. Colorado State University.

Alycia Dotseth, Kaylea Roush, Courtney Smith, & Hayley Spain (2009-2010). Co-Chair. Classifying children with Sensory Processing Disorder using behavioral and EEG measures. Department of Occupational Therapy. Colorado State University.

Aline Beyrouti, Stephanie Carpenter, Maigen Cummesky, Lindsay Hepp, Kim Mohrbacher, Vickie Morse, Mary Moulton, Elise Salzman (2009), MS Reliability of Sensory Registration in Children with and without Sensory Processing Disorders and its Relationship with the Sensory Profile, Department of Occupational Therapy, Colorado State University.

Haley Allison, Taneal Behm, Lexis Goodale, Amy Hasslet, Anna Lewis, Katie Miller (2008), MS. Comparing EEG Spectral Oscillations in Sensory Gating Between Adults and Children with and without Sensory Processing Disorders. Department of Occupational Therapy, Colorado State University.

Brooke Craven, Kindra Ryff, Angela Sanders, Erin Stansbery, Whitney Todaro, Rebekah West, Alana Winters (2008). MS. Reliability of Sensory Gating in Children with and without Sensory Processing Disorders. Department of Occupational Therapy, Colorado State University

Allison Benavidez, Andrea Caine, Lindsay Hall, Lindsay Huwa, Stephanie Ritter, Kim Rutherford, Jason Smith, Emily Strube, Nikki Zader (2007). Using EEG to Examine Somatosensory and Auditory Gating in Children with and without Sensory Processing Disorders. Department of Occupational Therapy. Colorado State University.

Lisa Fyffe (May 2006). Predicting Sensory Gating in Children with Sensory Processing Disorder Using Behavioral Measures. Department of Occupational Therapy. Colorado State University.

Janet Barr, Beth Daley, Lauren Dever, Gina Malito, Miranda Martinez, Emily Schettenhelm, Kristin Schultz (2006). Using EEG to Examine the Somatosensory Gating in Children with and Without Sensory Processing Disorders. Department of Occupational Therapy. Colorado State University.

Amanda Anderson, Jana Cadwell, Stephanie Furman, Jessica Kucera, Cheryl Lawrence, Pam Manganello, and Melissa Welden (2005). Using EEG to Compare Sensory Gating Abilities in Children With and Without Sensory Processing Disorders Department of Occupational Therapy. Colorado State University.

Tyrene Christopulos (2005). Contingent Negative Variation in Children With Autism or Asperger's Syndrome. Department of Occupational Therapy. Colorado State University.

Jenn-Houng (James) Yo (2004). Obsessive-Compulsive Characteristics and Socialization Impact on Error Monitoring in Children and Adolescents. Department of Occupational Therapy. Colorado State University.

Elaine Barandiaran, Lucia Calgario, Neve Grosse Siegfroid (2003). Determining Sensory Gating in Children Using a Modified P50 Paradigm. Department of Occupational Therapy. Colorado State University.

Karyn Dakova, Nicole Martino, Kim Moore (2003). EEG Measurement of Sensory Gating in Children with and without Sensory Modulation Disorder. Dept. of Occupational Therapy. CSU.

Amy Clausen, Pepper Lee Soon, Michele Young (2002). Construct Validity of School Function Assessment and Professional Judgment of Function of School-aged Students. Department of Occupational Therapy. Colorado State University.

Colorado State University, Dissertation Committee Member

Alexander Claxton (in progress). Department of Psychology. Colorado State University.

Brittany Cabral Taylor (August 2017). *Phases of Stimulus-Response Brain Processing Predict Task-Specific Behaviors in Children: A Latent Variable Model Unifying Multiple Constructs of the RDoC Framework*. Applied Developmental Sciences. Department of Human Development and Family Studies. Colorado State University.

Molly Womack (2016). The Evolution of 'Earlessness' in the True Toad Family (Bufonidae) Department of Biology. Colorado State University.

Alex Brudell (2014). Understanding the Home Food and Activity Environment of Low-Income, Rural Families with Young Children. Department of Food Science and Human Nutrition. Colorado State University.

Nicole Withrow-McDonald (2014). Food Selectivity and Weight Status in Children with an Autism Spectrum Disorder (ASD). Department of Food Science and Human Nutrition. Colorado State University.

Roger Paxton (2013). Neuromuscular Dysfunction: Characterization and Treatment. Department of Health and Exercise Sciences. Colorado State University.

Larua Bellows (2007). Development and Evaluation of Food Friends Get Movin' with Mighty Moves™: A Physical Activity Program to Prevent Obesity in Low-income Preschoolers. Department of Food Science and Human Nutrition. Colorado State University.

Julie Bugg (2006). Mechanisms of Executive Control: Behavioral Investigations of the Conflict Adaptation Effect. Psychology Department. Colorado State University.

Gwendolyn Schmidt (2006). Extending Local-Global Processing to the Semantic Domain: The Role of Stimulus Context. Psychology Department. Colorado State University.

Geoffrey O'Shea (2005). The Role of Chunking and Awareness in Serial Learning: An Investigation Using the Hebb Digits Task. Psychology Department. Colorado State University.

Corinna Cincotta (2005). ERPs of Category Learning With and Without Feedback. Psychology Department. Colorado State University.

Karen Fehringer (2003). Mother-Infant Interaction and Self-Regulation in two Perinatal Intervention Programs. School of Education. Colorado State University.

Colorado State University, Thesis Committee Member

Katie Becker (August 2017). Prosodic Influence in Face Emotion Perception: Evidence from Behavioral Measures and Functional Near-Infrared. Department of Psychology. Colorado State University.

Navini Dantanarayana (2014). Generative Topographic Mapping of Electroencephalography (EEG) Data. Department of Computer Science. Colorado State University.

Prathamesh Verlekar (2014). Detecting interface errors using error-related EEG potentials generated during simulated brain-computer interaction. Department of Computer Science. Colorado State University.

Anna D'Hooge (2013). Super Tasters and Mighty Movers: Extending the Food Friends® Messages into Early Elementary School. Department of Food Science and Human Nutrition. Colorado State University.

Laurie Causer (2010). Reliability of TMS Measurements of the Motor Cortex. Department of Occupational Therapy. Colorado State University.

Annamalai Natarajan (December 2009). Estimating Sparse Inverse Covariance Matrices for Brain Computer Interface applications. Department of Computer Science. Colorado State University.

Krystle Middlemiss (December 2009). Rhythm and Pitch Development in Infants and Children. Department of Music, Theater, and Dance. Colorado State University.

Andrea Lavine (December, 2007). Investigation of the Neurobiological Substrates of Motor Entrainment through Rhythmic auditory Stimuli Using Repetitive Transcranial Magnetic Stimulation. Department of Occupational Therapy. Colorado State University.

Carly Yadon (May, 2007). Effects of habituation and vigilance on the P50 middle-latency auditory evoked potential. Psychology Department. Colorado State University.

Lisa Caldwell (May, 2007). Pre-testing and Development of a Parent Component for Food Friends Get Movin' with Mighty Moves™. Department of Food Science and Human Nutrition. Colorado State University.

Elizabeth Englert DeJongh (May, 2007). Physical Fitness: Its Relationship with Physical Activity & Motor Skills, and its Role in Overall Health of Preschool Children. Department of Health and Exercise Science. Colorado State University.

Kristin Schiller (2007). Science Enrichment Classes to Increase Health Awareness in Children. Department of Food Science and Human Nutrition. Colorado State University.

Gwendolyn Schmidt (2003). Metaphor Processing as an Indicator of Course Semantic Processing in the Right Hemisphere. Psychology Department. Colorado State University.

Dawn Kuhn (2003). Auditory Rhythmic Working Memory: A Developmental Study. Department of Music, Theater, and Dance. Colorado State University.

Corinna Cincotta (2001). Differences in ERP as a Function of Category Learning Mode. Psychology Department. Colorado State University.

Colorado State University, Plan B Projects Committee Member

Kathleen St John (2012). Department of Music Therapy. Colorado State University.

Kasey Brixius (2011). Department of Food Science and Human Nutrition. Colorado State University.

Stephanie Schuller (2011). Department of Food Science and Human Nutrition. Colorado State University.

Natalia Cordova (December 2009). Classification of EEG Data. Department of Mathematics. Colorado State University.

Krystal Middlemiss (2009). Rhythm and Pitch Development in Infants and Children. Department of Music. Colorado State University.

Kathie Gustavson, Elizabeth Hyle, Holly Hendryx, Jaclyn Jacobi, Cassie Johnson, Alex Leiter, Megan Ure, Anthony Yokum (2007). Combining Constraint Induced Therapy and Rhythmic Auditory Stimulation. Department of Occupational Therapy. Colorado State University.

University at Buffalo, SUNY

Thesis Chair

Maureen Taylor (August 2000). Adaptive Behaviors and Intellectual Functioning in Children with Severe Disabilities. Department of Occupational Therapy. University at Buffalo.

University at Buffalo, SUNY, Thesis Committee Member

Eric Hwang (June 2000). Validation Study of the School Function Assessment of Elementary School Children. Department of Occupational Therapy. University at Buffalo.

Heather Dankert (August 1999). Occupational Therapy Effects on Visual-Motor Skills in Preschoolers. Department of Occupational Therapy. University at Buffalo.

Donna Reigstad (August 1999). Effect of Adaptive Seating on Oral-Motor Skills of Preschoolers with CNS Disorders. Department of Occupational Therapy. University at Buffalo.

Tipa Prangrat (February, 1999). Impact of Unilateral Neglect on Assistive Device Use. Department of Occupational Therapy. University at Buffalo.

Jung-Jiun Shie (June, 1998). The Longitudinal Development of Object Play in Infants with Down Syndrome. Department of Occupational Therapy. University at Buffalo.

Amy Goetz (August, 1997). Measuring Parent/Professional Interaction in Early Intervention: Validity and Reliability. Department of Occupational Therapy. University at Buffalo.

Charisse L. Todman (February, 1997). Department of Occupational Therapy. University at Buffalo.

Saskia van Ree (January, 1997). The Development of Early Sensory Processing of Infants with Down Syndrome. Department of Occupational Therapy. University at Buffalo.

Gretchen E. Gross-Kralj (August, 1995). Correlational Relationship between the TVMS and the VMI-3R Standard Scores of Typical Kindergarten Age Children. Department of Occupational Therapy. University at Buffalo.

Yung-Wen Hsu (May, 1995). Concurrent Validity of the Functional Independence Measure for Children (WeeFIM). Department of Occupational Therapy. University at Buffalo.

External Grants awarded to students under my mentorship

Jewel Crasta: *Sensory Processing Among Children with High-Functioning Autism Spectrum Disorders.* Organization for Autism Research. Grant period: July 2015 – December 2016. Amount: \$2,000

Mei-Heng Lin: *Modeling the Neural and Behavioral Inter-relationships of Attention and Executive Functions in Typically Developing Children.* Grant period: July 2017 – June 2018. Amount: \$650.

PROFESSIONAL SERVICES AND UNIVERSITY-RELATED ACTIVITIES

Colorado State University

University/College Committees

University program review committee 2007-2008

Faculty Senate, Spring 2002

College of Applied Human Sciences Faculty Advisory Committee, September 2001 to 2004

University at Buffalo, SUNY

University/College Committees

Health Related Professions Human Subjects Review Board (HSRB) at the University at Buffalo, April 1995 to 2000

University of Wyoming

University/College Committees

University of Wyoming's University Affiliated Program Feasibility Advisory Council; Wyoming Occupational Therapy Association Representative, 1992-1993

University of Wyoming Advisory Committee, Occupational Therapy Masters Program Proposal; Wyoming Occupational Therapy Association Representative, 1992-1993

PROFESSIONAL SOCIETIES

Service for Professional Organizations'

Scientific Advisory Council member, The American Occupational Therapy Foundation (AOTF), 2018-present

Chair, Academy of Research in Occupational Therapy, The American Occupational Therapy Foundation (AOTF), 2016-2018

Chair, DPRG Retreat Planning Committee, 2006-2008; Fifteenth Biennial Retreat "Neurocognitive, Social and Emotional Development: Transitioning from childhood to Adolescence." Primary speakers were Tomáš Paus, MD, PhD, Lillian Hehtman, MD, and Ronald Dahl, MD, May 19-21, 2008.

Author, Sensory Integration Evidenced-Based Project, American Occupational Therapy Association 2005 – 2011

Review Panel for Board and Specialty Certification applications, American Occupational Therapy Association, 2006 - 2011

Committee member, AOTASB Pediatric Panel, American Occupational Therapy Association 2004 – 2006

Co-Chair, DPRG Retreat Planning Committee, 2004-2006

Panel member for a discussion on relevant issues for physical and occupational therapists. Western District Meeting of the New York Physical Therapy Association. Buffalo, NY, October 9, 1996.

Wyoming Occupational Therapy Association Education Representative, 1992 to 1994.

American Occupational Therapy Association Committee of State Association Presidents, October 1987 to August 1989

President, Kansas Occupational Therapy Association (KOTA), October 1987 to August 1989

Chairperson for Southern District, KOTA, June 1984 to 1988

Member of Executive Board for KOTA, June 1984 to August 1989

Member of Student Planning Committee for AOTA Annual Conference, Denver, Colorado, 1980

Membership in Organizations

American Occupational Therapy Association (AOTA) 1980 to present

Cognitive Neuroscience Society (CNS) 2007 to present

Developmental Psychobiology Research Group (DPRG) 2000 to present

Kansas Occupational Therapy Association (KOTA) 1983 to 1990

Neuro-Developmental Treatment Association (NDTA) 1983 to present

New York Academy of Science (NYAS) 2003

New York State Occupational Therapy Association (NYSOTA) 1995 to 2000

Occupational Therapy Association of Colorado (OTAC) 2001 to present

Sensory Integration International (SII) 1988 to 2000

Sigma Xi, Scientific Honor Society 1993 to present

Society for Neuroscience 1993 to present

Society for Research in Child Development 1995 to present

Society for Psychophysiological Research 1997 to present

Wyoming Occupational Therapy Association (WyOTA) 1990 to 1994

EDITORSHIPS AND EDITORIAL BOARDS

Editorial Review Boards

OTJR: Occupation, Participation, and Health. 1999 – 2001; 2002; 2007 – present
American Journal of Occupational Therapy. January 1996 to December 1998
Physical & Occupational Therapy in Pediatrics. January 2003 to 2015

Guest Co-Editor

Special Issue on Sensory Processing Disorders in *American Journal of Occupational Therapy.* Co-guest editor: Roseann Schaaf. May/June 2010.
Quantitative Research Series in *American Journal of Occupational Therapy.* Co-guest editor: Jane Case-Smith. July 1998 – July 1999 (8 articles in the series).

Reviewer

Abnormal Child Psychology. 2007, 2008, 2009
American Journal Physical Medicine & Rehabilitation. 2009
Behavior Research Methods. 2005
Biological Psychology. 2008, 2010
BMC Neuroscience. 2004
Brain and Cognition. 2004, 2005, 2007, 2012
Child Development. 2015, 2016
Developmental Neuropsychology. 2004, 2005, 2006, 2008, 2009, 2011, 2014, 2015, 2016
Developmental Psychobiology. 2010, 2017, 2018
European Journal of Neuroscience. 2012
European Journal of Pediatric Neurology. 2002
Hearing Research. 2012
Journal of Autism and Developmental Disorders. 2011
Journal of Experimental Child Psychology. 2012
Journal of Pediatrics. 2008
Neurology. 2012
Neuropsychologia. 2011, 2012
Neuroscience letters. 2006
PLoS ONE. 2011
Psychiatry Research. 2004
Psychophysiology. 2005, 2006, 2007, 2008, 2012, 2014
Social Cognitive and Affective Neuroscience. 2013

GRANT REFEREEING

Binational Science Foundation. 2008, 2010
Comprehensive Opportunities in Rehabilitation Research Training (CORRT). 2013, 2015, 2016
Dutch Technology Foundation. 2009
Israel Science Foundation. 2012
National Science Foundation, 2011, 1 panel

EXTERNAL REVIEWER FOR TENURE AND PROMOTION

- Mid-term review for **one** assistant professor 2010
- Tenure and promotion review for **one** assistant professor 2011
- Tenure and promotion review for **one** assistant professor 2012
- Tenure and promotion reviews for **three** assistant professors 2014
- Tenure and promotion review for **one** assistant professor 2015
- Promotion review for **one** associate professor 2016
- Tenure and promotion review at a new institution for **one** full professor 2016

ADVISORY BOARDS AND OTHER PROFESSION SERVICE

- AOTA Specialties Board (AOTASB) Certification Pediatric Panel 2004 – 2006
- AOTA Sensory Integration Evidenced-Based Research project 2005-2007