

CAROLINE J. KETCHAM, PhD

PROFESSOR AND CHAIR
Department of Exercise Science

2525 CB, Koury (Athletic) Center 203
Elon University, Elon NC 27244
cketcham@elon.edu
336.278.5807 (phone), 336.278.4155(fax)

EDUCATION

2003	PhD	Arizona State University, Tempe, AZ	Exercise Science / Motor Control <i>'Pattern of oculomotor control in continuous multijoint drawing movements'</i>
1999	MS	Arizona State University, Tempe, AZ	Exercise Science / Motor Control <i>'Bradykinesia in Parkinson's Disease: A Kinematic Analysis'</i>
1996	BA	Colby College, Waterville, ME	Biology/ Psychology
1995		Sea Education Association Semester, Boston College, Woods Hole, MA	

PROFESSIONAL EXPERIENCE

2016 – Present	<i>Co-Director</i> ,	Elon BrainCARE Research Institute, Elon College, Elon University
2007 – Present	<i>Faculty</i> ,	Elon University, Elon NC
	2017 – Present	Professor, Department of Exercise Science
	2014 – Present	Chair, Department of Exercise Science
	2012 – 2015	Director of Health Professions Advising
	2011 – 2017	Associate Professor, Department of Exercise Science
	2009 – Present	Neuroscience Faculty, Neuroscience Program
	2007 – 2011	Assistant Professor, Department of Exercise Science
2004 – 2007	<i>Assistant Professor, Graduate Faculty</i> ,	Texas A&M University, College Station, TX
	2004 – 2007	Department of Health and Kinesiology & Huffines Institute for Sports Medicine and Human Performance
	2004 – 2007	Faculty of Neuroscience
1997 – 2004	<i>Graduate Work/Student</i> ,	Arizona State University, Tempe, AZ
	2003 – 2004	<i>Faculty Research Associate</i> , Motor Control Laboratory
	1997 – 2003	<i>Graduate Research Assistant</i> , Motor Control Laboratory
	2000 – 2001	<i>Research Assistant</i> , Neuroscience Division, Imperial College School of Medicine, UK
	1999 – 2001	<i>NASA Graduate Student Researcher</i> , Johnson Space Center
	1997 – 1999	<i>Graduate Teaching Assistant</i> , Department of Kinesiology
1994 – 1995	<i>Neuropsychology/TBI Intern</i> ,	Valley Children's Hospital, Fresno, California

HONORS AND AWARDS

2017	Ward Family Excellence in Mentoring Award, Elon University
2014	Elon College Outstanding Service Award
2013	PKAL Summer Leadership Institute for STEM Participant
2010	Faculty Award for Excellence in Scholarship, School of Education
2009	Faculty Sustainability Scholar
2007	Teacher of the Year, Division of Kinesiology, Texas A&M University
2006	Montague Teaching Excellence Scholar Award, Texas A&M University
2005	Montague Teaching Excellence Scholar Nominee, Texas A&M University
2004-2005	Woman's Progress Award, Texas A&M University
2002-2003	Graduate Academic Scholarship
2001	Society for Neuroscience Travel Grant Award Winner
2001-2002	Achievement Reward for College Scientists (ARCS) Scholar
2001	Outstanding Graduate Student, Graduate College Accolades
2000-2001	Preparing Future Faculty Fellow
1999	Faculty Women's Association Distinguished Master's Student Nominee

SCHOLARLY PUBLICATIONS (¹mentored student; * I put student authors 1st ~ these are considered 1st author publications in my field; links will send you to paper)

PEER-REVIEWED PUBLISHED MANUSCRIPTS

- Evans E.S., **Ketcham C.J.**, Hibberd J.C., Cullen M.E., Baslilieri J.G., Murphy D.L. (revise and resubmit). Examination of clinical and laboratory measures of static and dynamic balance in breast cancer survivors. *Journal of Cancer Survivorship*
- Messerschmidt E.L.¹, Hall E.E., **Ketcham C.J.**, Patel K., Vallabhajosula S. (revise and resubmit) Gait assessment in collegiate athletes: Do concussion history, symptoms, gender and type of sport matter? *Clinical Journal of Sports Medicine*
- Corning S.¹, **Ketcham C.J.**, Hall E.E. (revise and resubmit). Striking Down Barriers: Parents' Perspectives of Youth Sport Programs for their Children with Disabilities.
- Kaye A.¹, Sundman M.H.¹, Hall E.E., Williams E., Patel K., **Ketcham C.J.** (2019). Baseline neurocognitive performance and symptoms in those with Attention Deficit Hyperactivity Disorders and history of concussion with previous loss of consciousness. *Frontiers Neurology* 10(396), 1-10. <https://doi.org/10.3389/fneur.2019.00396>
- Blake A.¹, McVicar C.L.¹, Retino M.¹, Hall E.E., **Ketcham C.J.** (in press) History of concussion leads to sleep disturbances, symptoms and negative quality of life in collegiate student-athletes. *Sleep Health: Journal of the National Sleep Foundation*. <https://doi.org/10.1016/j.sleh.2018.10.011>
- Brown L.A.¹, Hall E.E., **Ketcham C.J.**, Patel K., Buckley T.A., Howell D.A., Vallabhajosula S. (in press) Turn characteristics during gait differ with and without a cognitive demand among collegiate athletes. *Journal of Sports Rehabilitation*. <https://doi.org/10.1123/jsr.2018-0129> PMID: 30860425
- *Oberle K. ¹, **Ketcham C.J.** (2018) Cerebellar transcranial direct current stimulation and dual-task performance. *Neurology and Neurotherapy*, 3(1): 1-8; 000123
- Ketcham C.J.**, Cochrane G.D.¹, Brown L.¹, Vallabhajosula S., Patel K., Hall E.E. (2018) Neurocognitive performance, concussion history and balance performance during a distraction dual-task in collegiate student-athletes. *Athletic Training and Sport Health*
- Cochrane G.D.¹, Sundman M.¹, Hall E.E., Kostek M.C., Patel K. Barnes K.P., **Ketcham C.J.** (2018) Genetics have influence on neurocognitive performance at baseline but not concussion history in collegiate student-athletes. *Clinical Journal of Sports Medicine*, 28(2), 125-129 [doi:10.1097/JSM.0000000000000443](https://doi.org/10.1097/JSM.0000000000000443)
- Guth T.¹, **Ketcham C.J.**, Hall E.E. (2018) Influence of concussion history and genetics on event-related potentials in athletes: Potential use in concussion management. *Sports* 6 (1), 5. [doi:10.3390/sports6010005](https://doi.org/10.3390/sports6010005)
- Nepocatysh S., **Ketcham C.J.**, Vallabhajosula S., Balilionis G. (2018). The effects of unstable surface balance training on postural sway, functional ability, and flexibility in women. *Journal of Sports Medicine and Physical Fitness*, 58 (1-2), 27-24. DOI: [10.23736/S0022-4707.16.06797-9](https://doi.org/10.23736/S0022-4707.16.06797-9)
- Ketcham C.J.**, Hall E.E., Miller P.C. (2017) Co-mentoring undergraduate research: Student, faculty and institutional perspectives. *PURM: Perspectives of Undergraduate Research Mentoring*, 6.1, 1-13. blogs.elon.edu/purm/files/2017/10/final_Ketcham-Hall-Miller_main.pdf
- Nicholson B.A.¹, Pollack M., **Ketcham C.J.**, Fitz Gibbon H.M., Bradley E.D., Bata M. (2017) Beyond the mentor-mentee model: A case for multi-mentoring in undergraduate research. *PURM: Perspectives of Undergraduate Research Mentoring*, 6.1, 1-14. http://blogs.elon.edu/purm/files/2017/10/Nicholson_et_al_6.1.pdf
- Bradley E.D., Bata M., Fitz Gibbon H.M., **Ketcham C.J.**, Nicholson B.A.¹, Pollack M. (2017) Structure of mentoring in undergraduate research: multi-mentor models. *SPUR: Scholarship and Practice of Undergraduate Research*, 1(2), 35-42. [doi: 10.18833/spur/1/2/12](https://doi.org/10.18833/spur/1/2/12)
- Ketcham C.J.**, Bowie M, Buckley T.A., Baker M., Patel K., Hall E.E. (2017) The value of speech-language pathologists in concussion management. *Current Research: Concussion*, 4(1), e8-e13. [doi:10.1055/s-0037-1603645](https://doi.org/10.1055/s-0037-1603645).
- Harvey K.P.¹, Hall E.E., Patel K., Barnes K.P., **Ketcham C.J.** (2017) Potential factors influencing recovery from concussion in collegiate student-athletes. *Journal of Concussion*, 1, 1-6. [doi: 10.1177/20597-00217707084](https://doi.org/10.1177/20597-00217707084).

- *Hupfeld K.E.¹, **Ketcham C.J.**, Schneider H.D. (2017) Transcranial direct current stimulation (tDCS) to Broca's area: Persisting effects on non-verbal motor behaviors. *Neurological Disorders and Therapeutics*, 1(1), 1-5. [doi:10.15761/NDT.1000102](https://doi.org/10.15761/NDT.1000102).
- Howell D.R., Oldham J.R., DiFabio M., Vallabhajosula S., Hall E.E., **Ketcham C.J.**, Meehan M.P., Buckley T.A. (2017). Single-task and dual-task gait performance values in healthy collegiate athletes: implications for concussion management. *Journal of Applied Biomechanics*, 33(1), 24-31. [doi: 10.1123/jab.2015-0323](https://doi.org/10.1123/jab.2015-0323).
- *Hupfeld K.E.¹, **Ketcham C.J.**, Schneider H.D. (2017) Transcranial direct current stimulation (tDCS) to the supplementary motor area (SMA) influences performance on motor tasks. *Experimental Brain Research*, 235(3), 851-859. [doi: 10.1007/s00221-016-4848-5](https://doi.org/10.1007/s00221-016-4848-5).
- Cottle J.E.¹, Hall E.E., Patel K., Barnes K.P., **Ketcham C.J.** (2017). Concussion baseline testing: pre-existing factors, symptoms, and neurocognitive performance. *Journal of Athletic Training*. 52(2), 77-81. [doi: 10.4085/1062-6050-51.12.21](https://doi.org/10.4085/1062-6050-51.12.21)
- Ketcham, C.J.** Hall, E.E. (2016). Caring for your brain: What I need to know about concussions. *Frontiers for Young Minds: Understanding Health*, 4(17), doi: 10.3389/frym.2016.00017
- *Hupfeld K.E.¹, **Ketcham C.J.** (2016) Transcranial direct current stimulation on motor and language planning in minimally verbal children with Autism Spectrum Disorder (ASD): Feasibility, limitations, and future directions. *Journal of Childhood and Developmental Disorders*. 2(3), 1-12. doi.org/10.4172/2472-1786.100029
- Buckley T.A., Vallabhajosula S., Oldham J., Munkasy B.A., Evans K.M., Krazeise D.A., **Ketcham C.J.**, Hall E.E (2016) Evidence of a conservative gait strategy in athletes with a history of concussions. *Journal of Sport and Health Science*, 5, 417-423. [doi:10.1016/j.jshs.2015.03.010](https://doi.org/10.1016/j.jshs.2015.03.010)
- Jennings L.¹, Nepocatysh S., **Ketcham C.J.**, Duffy D.M. (2016). The effect of summer camp intervention on the nutrition knowledge and dietary behavior of adolescent girls. *Health Promotion Practice*, 17(4),521-529. [doi: 10.1177/1524839915627998](https://doi.org/10.1177/1524839915627998)
- *Burgoyne M.E.¹, **Ketcham C.J.** (2015) Observation of classroom performance using therapy balls as a substitute for chairs in elementary school children. *Journal of Education and Training Studies*, 3(4), 42-48. [doi:10.11114/jets.v3i4.7](https://doi.org/10.11114/jets.v3i4.7).
- *Diehl S.B.¹, **Ketcham C.J.**, Duffy D.M (2015) Healthy living interventions in a residential girl scout camp. *Journal of Child and Adolescent Behavior*, 3(2), 1-6. [doi:10.4172/2375-4494.1000197](https://doi.org/10.4172/2375-4494.1000197).
- *Simermeyer J.L.¹, **Ketcham C.J.** (2015) Motor planning and end-state comfort in children with Autism Spectrum Disorders, *Autism Open Access*, 5(1), 1-4. [doi: 10.4172/2165-7890.1000138](https://doi.org/10.4172/2165-7890.1000138)
- *Evans K.M.¹, **Ketcham C.J.**, Folger S., Vallabhajosula S., Hall E.E.(2015) Relationship between information processing and postural stability in collegiate division I NCAA Athletes: Does concussion History Matter? *International Journal of Physical Medicine and Rehabilitation*, 3(2), 1-6. [doi: 10.4172/2329-9096.1000268](https://doi.org/10.4172/2329-9096.1000268)
- Hall E.E., **Ketcham C.J.**, Crenshaw C., Baker M., McConnell J., Patel K. (2015) Concussion management in collegiate student-athletes: Return-to-academics recommendations. *Clinical Journal of Sports Medicine*, 25(3), 291-296. [doi: 10.1097/JSM.000000000000133](https://doi.org/10.1097/JSM.000000000000133).
- Ketcham C.J.**, Hall E.E., Bixby W.R., Vallabhajosula S., Folger S.E., Kostek M.C., Miller P.C., Barnes K.F., Patel K. (2014) A neuroscientific approach to the examination of concussions in student-athletes. *Journal of Visualized Experiments*, 8(94), [doi: 10.3791/52046](https://doi.org/10.3791/52046).
- *Thompson F.¹, **Ketcham C.J.**, Hall E.E. (2014) Hippotherapy in children with developmental delays: Physical function and psychological benefits. *Advances in Physical Education*, 4, 60-69. [doi:10.4236/ape.2014.42009](https://doi.org/10.4236/ape.2014.42009)
- *Volkerding K.E.¹, **Ketcham C.J.** (2013) Biomechanical and proprioceptive differences during drop landings between dancers and non-dancers. *International Journal of Exercise Science*, 6(4), 289-299. <http://digitalcommons.wku.edu/ijes/vol6/iss4/4>
- Rodriguez T.M.¹, Buchanan J.J., **Ketcham C.J.** (2010) Identifying leading joint strategies in a bimanual coordination task: Does coordination stability depend upon leading joint strategy? *Journal of Motor Behavior*, 42(1), 49-60. [doi: 10.1080/00222890903361471](https://doi.org/10.1080/00222890903361471).
- Ketcham C.J.**, Rodriguez T.M.¹, Zihlman K.A.¹ (2007) Targeted aiming movements are compromised in non-affected limb of persons with Stroke, *Neurorehabilitation and Neural Repair*, 21(5), 388-397. [doi: 10.1177/1545968306297872](https://doi.org/10.1177/1545968306297872).

- Lee G., Fradet, L., **Ketcham C.J.**, Dounskaia, N. (2007) Efficient control of arm movements in advanced age, *Experimental Brain Research*, 177(1), 78-97. [doi:10.1007/s00221-006-0648-7](https://doi.org/10.1007/s00221-006-0648-7).
- Ketcham C.J.**, Dounskaia N.V., Stelmach G.E. (2006) The role of vision in the control of continuous multijoint movements. *Journal of Motor Behavior*, 38(1), 29-44. [doi:10.3200/JMBR.38.1.29-44](https://doi.org/10.3200/JMBR.38.1.29-44)
- Dounskaia N., **Ketcham C.J.**, Leis B., Stelmach G.E. (2005) Disruptions in joint control during drawing arm movements in Parkinson's disease. *Experimental Brain Research*, 164, 311-322. [doi:10.1007/s00221-005-2251-8](https://doi.org/10.1007/s00221-005-2251-8)
- Ketcham C.J.**, Dounskaia N., Stelmach G.E., (2004) Age-related differences in the control of multijoint movements. *Motor Control*, 8, 422-436
- Ketcham C.J.**, Dounskaia N.V., Stelmach G.E. (2004) Multijoint movement control: The influence of interactive torques. In S. Mori, D. Stuart, and M. Weisendanger (Eds.) *Brain Mechanisms for the Integration of Posture and Movement, Progress in Brain Research*, 143, 207-218, Elsevier Publishing: London. [doi:10.1016/S0079-6123\(03\)43021-5](https://doi.org/10.1016/S0079-6123(03)43021-5)
- Ketcham C.J.** (2004) Pattern of oculomotor control in continuous multijoint drawing movements. *Dissertation Abstracts International: Section B: The Sciences and Engineering*, 64(10-B), 4795.
- Ketcham C.J.**, Hodgson T.L., Kennard C., Stelmach G.E. (2003) Memory-motor transformations are impaired in Parkinson's disease. *Experimental Brain Research* 149(1), 30-39. [doi: 10.1007/s00221-002-1332-1](https://doi.org/10.1007/s00221-002-1332-1).
- Ketcham C.J.**, Seidler R.D., van Gemmert A.W.A., Stelmach G.E. (2002) Age related kinematic differences as influenced by task difficulty, target-size, and movement amplitude. *Journal of Gerontology: Psychological Sciences and Social Sciences*, 57B, P54-P64. [doi:10.1093/geronb/57.1.P54](https://doi.org/10.1093/geronb/57.1.P54).
- Dounskaia N.V., **Ketcham C.J.**, Stelmach G.E. (2002) Commonalities and differences in control of a large set of drawing movements. *Experimental Brain Research* 146, 11-25. [doi: 10.1007/s00221-002-1144-3](https://doi.org/10.1007/s00221-002-1144-3).
- Dounskaia N.V., **Ketcham C.J.**, Stelmach G.E. (2002) Influences of biomechanical constraints on horizontal arm movements. *Motor Control* 6: 368-389
- Ketcham C.J.**, Dounskaia N.V., Seidler R.D., Stelmach G.E. (2000) Multijoint control is compromised in Parkinson's disease patients. *Journal of Human Kinetics*, 4(s), 85-95.

EDITED BOOK (^peer-reviewed/refereed)

- ^Hall E.E., **Ketcham C.J.** (Eds.) (2017). *Concussion in Athletics: Assessment, Management and Emerging Issues*: Hauppauge, NY: Nova Science Publishers.

BOOK CHAPTERS (^peer-reviewed/refereed)

- ^**Ketcham C.J.**, Hall E.E., Fitz-Gibbons H., Walkington H. (2018) Co-mentoring in undergraduate research: A faculty development perspective. In M. Vandermaas-Peeler, P.C. Miller and J. Moore (Eds) *Excellence in Mentoring Undergraduate Research*. Council on Undergraduate Research: Washington D.C.
- ^**Ketcham C.J.**, William E., Mellinger L., Hall E.E. (2017) Feasibility and efficacy on the implementation of a concussion management protocol for club sport participants in a university setting (chp 3). In E.E. Hall and C.J. Ketcham (Eds) *Concussions in Athletics: Assessment, Management and Emerging Issues* (pp. 27-36). Nova Science Publishers: Hauppauge, NY.
- ^ Hall E.E., Dennion N.¹, Griffin M.¹, **Ketcham C.J.** (2017) Tailoring concussion education for the academic community (chp. 12). In E.E. Hall and C.J. Ketcham (Eds) *Concussions in Athletics: Assessment, Management and Emerging Issues* (pp. 171-182). Nova Science Publishers: Hauppauge, NY.
- Ketcham C.J.**, Stelmach G.E. (2006) Control and regulation of movement in Elderly Adults (chp. 4). In W. Zhu and W.J. Chodzko-Zajko (Eds) *Measurement Issues in Aging and Physical Activity*, (pp. 35-47) Human Kinetics: Urbana-Champaign
- Ketcham C.J.**, Stelmach G.E. (2004) Movement control in the older adult (chp. 3). In R.W. Pew and S.B. van Hemel (Eds) *Technology for Adaptive Aging*, (pp. 64-92). National Academies Press: Washington DC.
- Ketcham C.J.**, Stelmach G.E. (2002) Motor Control of Older Adults. In Ekerdt D.J., Applebaum R.A., Holden K.C., Post S.G., Rockwood K., Schulz R., Sprott R.L., and Uhlenberg P. (Eds.) *Encyclopedia of Aging*. New York: Macmillan Reference USA
- Ketcham C.J.**, Stelmach G.E. (2001) Age-Related Declines in Motor Control (chp. 13). In J. Birren and K.W. Schaie *Handbook of Psychology of Aging 5th Edition*, (pp. 313-348). Academic Press: San Diego

Dounskaia N.V., **Ketcham C.J.**, Stelmach G.E. (2001) Joint control during hand movements in different directions. In N. Gantchev (Ed.) *From Basic Motor Control to Functional Recovery II* (pp. 185-192), Academic Publishing House: Sofia

BLOG PUBLICATIONS (not peer-reviewed)

- Ketcham C.J.**, Sienerth K., Fair C. (Oct 2017) Letter from guest editors of Special Issue (6.1) Perspectives in Undergraduate Research Mentoring (PURM): Co-Mentoring, Mentoring Networks and Mentoring Models, <http://blogs.elon.edu/purm/2017/10/26/letter-from-the-guest-editor-purm-6-1/>
- Ketcham C.J.** (Oct. 2017) Inspiring student ownership of capstone <http://www.centerforengagedlearning.org/inspiring-student-ownership-of-capstone/>
- Weaver T., **Ketcham C.J.** (Aug. 2017) 'Capstone' experience in higher education. <http://www.centerforengagedlearning.org/capstone-experience-in-higher-education/>
- Vandermaas-Peeler M., **Ketcham C.J.** (Sept. 2015) Mentoring relationships in undergraduate research. <http://www.centerforengagedlearning.org/mentoring-relationships-in-undergraduate-research/>

PEER-REVIEWED PRESENTATIONS / PUBLISHED ABSTRACTS

(1 mentored student)

- Ketcham, C.J.**, Arbogast, K.E., Riegner, C.R., Hall, E.E. (2019, March) The Relationship Between Team Climate Factors, Sport Type, and Concussion Reporting Intentions in Collegiate Student-Athletes. *13th World Congress of Brain Injury*. Toronto, Canada
- Hall, E.E. Riegner, C.R., Patel K., Williams, E., Conder, R., **Ketcham, C.J.** (2019, March) Using concussion symptoms as a proxy for mental health: Baseline concussion symptoms may be predictive of depressive symptoms. *13th World Congress of Brain Injury*. Toronto, Canada
- Ketcham, C.J.**, Thomas, N., Beamon, E., Kroshus, E., Patel, K., Williams, E., Hall, E.E. (2019, March) Identity Factors Predict Concussion Reporting Behaviors in Collegiate Student-Athletes. *13th World Congress of Brain Injury*. Toronto, Canada
- Koene, H., **Ketcham, C.J.** (2019, March) Parent perspectives of health care barriers and social supports for their children with disabilities in a university context. *34th Annual Pac Rim International Conference on Disability and Diversity*, Hawaii.
- Vandermaas-Peeler, M., Hall, E., **Ketcham, C.**, & Russell, S. (2019, February). Fostering intercultural learning through undergraduate research in global contexts. *Workshop on Intercultural Skills Enhancement*. Winston-Salem, NC.
- Kenny, C.¹, Kearns, L., **Ketcham, C.J.**, Hall, E.E. (2018, October) Dance-specific balance confidence measurement for injuries. *International Association of Dance Medicine and Science*, Group F. Helsinki, Finland
- Ketcham, C.J.**, Weaver, A., Kinzie, J. (2018, October) The Changing Landscape of Capstone Experiences: Diverse Needs of Students and Institution Types. *International Society of the Scholarship of Teaching and Learning: Toward a Culture of Learning*, 226. Bergen, Norway
- Hall, E.E., Weaver, A., **Ketcham, C.J.** (2018, October) Innovative Strategies for High Impact Practices: Access, Success, and the Student-Athlete. *International Society of the Scholarship of Teaching and Learning: Toward a Culture of Learning*, 223. Bergen, Norway
- Ketcham, C.J.**, Kenny, C.M.¹, Kearns, L.W., Hall, E.E. (2018, June) Integration of a complex balance task into a concussion management protocol specific to dancers. *Medicine and Science in Sport and Exercise*, 50, 6(Supp.), S2313. American College of Sports Medicine. Minneapolis, MN.
- Kelly, C.A.¹, **Ketcham, C.J.**, Patel, K., Hall, E.E. (2018, May) Test setting and ADHD influence baseline concussion testing neurocognitive performance in collegiate student-athletes. *Medicine and Science in Sport and Exercise*, 50, 6(Supp.), S1967/S2029. American College of Sports Medicine. Minneapolis, MN.
- Brennan, B.M.¹, **Ketcham, C.J.**, Patel, K., Hall, E.E. (2018, May) Academic confidence and grit predict mindfulness in collegiate student-athletes. *Medicine and Science in Sport and Exercise*, 50, 6(Supp.), S1353. American College of Sports Medicine. Minneapolis, MN.
- Oberle, K.G.¹, **Ketcham, C.J.** (2018, May) Impacts of cerebellar tDCS during a dual-task: Sustained balance improvement. *Medicine and Science in Sport and Exercise*, 50, 6(Supp.), S416. American College of Sports Medicine. Minneapolis, MN.

- Corning, S.¹, **Ketcham, C.J.**, Hall E.E. (2018, April) Perspectives of parents and volunteers of special needs children in youth sport programs: Striking down barriers. *Gatlinburg Conference*, San Diego, CA.
- Fair, C., Krol, B.¹, McCain, S.¹, Moats, A.¹, Music, F.¹, **Ketcham, C.** (2018, February) Availability and accessibility of psychosocial service information on websites of top-rated children's cancer hospitals. *American Psychosocial Oncology Society Annual Conference*. Tucson, AZ.
- Fair, C., Krol, B.¹, McCain, S.¹, Moats, A.¹, Music, F.¹, **Ketcham, C.** (2018, February) Translating psychosocial standards of care into assessment: A tool for advocacy. *American Psychosocial Oncology Society Annual Conference*. Tucson, AZ.
- Heaton, I.¹, Hall, E.E., Ahmed, O., Rees, T., **Ketcham, C.J.** (2018, January) Examination of the availability and effectiveness of social support systems following a concussion in collegiate student-athletes and dancers. *2018 Brain Injury Summit*, Vail, CO.
- Hall, E.E., **Ketcham, C.J.** (2018, January) Depression and satisfaction with life – not influenced by concussion history, but influences reaction time and total symptoms on neurocognitive test. *2018 Brain Injury Summit*, Vail, CO.
- Ketcham, C.J.**, Perciaccante, A.¹, Hall, E.E. (2018, January) Neurocognitive performance, King-Devick performance, symptom reporting, and concussion history in collegiate student-athletes with migraines and headaches. *2018 Brain Injury Summit*, Vail, CO.
- Kaye S.¹, Sundman M., Hall E.E., Patel K., **Ketcham C.J.** (2017, November). Baseline neurocognitive performance and symptoms in those with attention deficit disorders and a history of concussions with loss of consciousness. *Society for Neuroscience Abstracts*, 216.02, T12, *Society for Neuroscience Conference*, Washington D.C.
- Ketcham, C.J.**, O'Grady B.N.¹, Grabowski J.J.¹, Summers B.E.¹, Brown L.A.¹, Patel K., Vallabhajosula S., Hall E.E. (June 2017) Concussion recovery: Gait characteristics in collegiate student-athletes. *Medicine and Science in Sport and Exercise*, 49, 5(Supp.), S556. American College of Sports Medicine. Denver, CO.
- Hall, E.E., Krzenski B.A.¹, Williams E., **Ketcham C.J.** (2017 June) Concussions and vestibular changes: Concussion mechanism and neurocognitive performance. *Medicine and Science in Sport and Exercise*, 49, 5(Supp.), S310. American College of Sports Medicine. Denver, CO.
- O'Grady B.N.¹, Grabowski J.J.¹, **Ketcham C.J.**, Vallabhajosula S., Patel K., Hall E.E. (February 2017) Gait characteristics in collegiate student-athletes after sustaining a concussion. *Southeast American College of Sports Medicine Conference*, U9 Greenville, SC (nominated for undergraduate research award).
- Krzenski B.A.¹, **Ketcham C.J.**, Williams E., Hall E.E. (February 2017) Vestibular deficits in concussions: Relationships between concussion mechanism and neurocognitive performance. *Southeast American College of Sports Medicine Conference*, P123. Greenville, SC.
- Lynch D.J.¹, Gallagher J.B.¹, McConnell J.M., Hall E.E., Williams E., **Ketcham C.J.** (February 2017) Association of ACL injury in student-athletes with concussion history. *Southeast American College of Sports Medicine Conference*, P124. Greenville, SC.
- Summers B.E.¹, Hall E.E., Patel K., **Ketcham C.J.** (February 2017) Influence of sleep on neurocognition and visual performance in collegiate student-athletes. *Southeast American College of Sports Medicine Conference*, P126. Greenville, SC.
- Gehrin J.N.¹, Miller P.C., **Ketcham C.J.** (February 2017) The effects of balance training and resveratrol supplementation on stability. *Southeast American College of Sports Medicine Conference*, TP4 Greenville, SC.
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- Ketcham C.J.**, van Gemmert A.W.A., Seidler R.D., Teulings H.L., Stelmach G.E. (1999, October) Movement kinematics and speed-accuracy constraints in Parkinson's disease. *Society for Neuroscience Abstracts*, 25, 375. *Society for Neuroscience Conference*, Miami, FL.
- Alberts J.L., **Ketcham C.J.**, Stelmach G.E., Adler C.H. (1998, November) Disruption in Predictive Force Control for Parkinson's disease patients. *Society for Neuroscience Abstracts*, 24, 409. *Society for Neuroscience Conference*, Los Angeles, CA.
- Alberts J.L., **Ketcham C.J.**, Stelmach G.E., Adler C.H. (1998) Predictive force control in Parkinson's disease Patients. *Movement Disorders*, 13, 181. *5th International Congress of Parkinson's Disease and Movement Disorders*, New York, NY.
- Crews D., Stelmach G.E., Lochbaum M., Lutz R., Cheetham P., **Ketcham C.J.** (1997, June) Putting: Age, skill, and variability. *WSOG Conference*. Scotland.

INVITED PRESENTATIONS

- Ketcham C.J.** 'Elon's A-B-C Framework for Wellness'. *NCICU Conference*, December 2018, Wake Forest Univ.
- Ketcham C.J.**, Hupfeld K.E.¹ 'Motor Matters in Autism Spectrum Disorders'. *Durham Orange Chatham North Carolina Association for the Education of Young Children*, April 2016, Durham, NC
- Ketcham C.J.**, Hall E.E. 'Elon BrainCARE', April 2014, Elon BrainCARE Symposium, Elon University.
- Ketcham C.J.** Motor Matters: The role movement plays in the developing child. *Faculty Research and Development Research Presentations*, August 21, 2014. Elon University.
- Ketcham C.J.** Motor Matters: The role movement plays in the developing child. *Department of Clinical Speech, Duke University*, March 2014.
- Ketcham C.J.** Connect the dots: Motor behavior research as a window into the brain. *Frontiers in Neuroscience: Mind, Body, BRAIN Symposium, SURF*, April 28, 2009
- Ketcham C.J.** Motor behavior research. *Elon Neuroscience Workshop*, October 24, 2008, Elon University.
- Ketcham C.J.** Control of arm movements in older adults, Elon University, April 23, 2007.

- Ketcham C.J.** Research methods: practical considerations in special populations research, Elon University, April 23, 2007.
- Ketcham C.J.** Organization, control, and coordination of arm movements in older adults. Department of Rehabilitation and Movement Science, University of Vermont, April 5, 2007.
- Ketcham C.J.** Movement control and coordination in older adults. Department of Psychology, Texas A&M University, November 7, 2005.
- Ketcham C.J.,** Dounskaia N., Stelmach G.E. Age-related differences in the control of multijoint movements. CEHD Research Symposium, Texas A&M University, College Station, February 18, 2005.
- Ketcham C.J.,** Dounskaia N., Stelmach G.E. The pattern of oculomotor control as the influence of interactive torques increases in multijoint drawing movements. Motor Control Symposium: Trends and Perspectives, Tempe, May 20, 2004.
- Dounskaia N., **Ketcham C.J.,** Stelmach G.E. Arm geometry predicts bell-shaped velocity profile. Motor Control Symposium: Trends and Perspectives, Tempe, May 20, 2004.
- Lee G., Dounskaia N., **Ketcham C.J.,** Stelmach G.E. Age-related adaptive strategies of joint movement control during line drawing task. Motor Control Symposium: Trends and Perspectives, Tempe, May 21, 2004.
- Hodgson T.L., **Ketcham C.J.,** Molyva D., Sumner P., Kennard C. Impaired memory-motor transformations in Parkinson's disease. Experimental Psychology Society, University of Exeter, UK, April 10, 2003.
- Stelmach G.E., **Ketcham C.J.** Movement control in older adults. National Research Council's National Academies of Sciences 'Adaptive Aging: From Technology to Gerontology', Washington D.C. January 23, 2003
- Ketcham C.J.** The influence of interactive torques in the control and coordination of continuous multijoint drawing movements. Texas A&M University, January 11, 2003
- Stelmach G.E., **Ketcham C.J.,** Dounskaia N.V., Wang J. Selective Impairments in Parkinson's disease. University of Michigan, February 21, 2002
- Ketcham C.J.** Complexity of Movement in Individuals with Parkinson's disease. Sun City West, October 16, 2001
- Stelmach G.E., **Ketcham C.J.** Aging and Golf: Sensorimotor declines that influence movement coordination and control. Future of Golfers Conference, Tempe, Arizona, March 14, 2001
- Alberts J.L., **Ketcham C.J.,** Adler C.H, Stelmach G.E. Predictive Force Control Impairments in Parkinson's disease Patients. Flinn Biomedical Enrichment Symposium, Tucson, Dec 11, 1998.

CONFERENCE ORGANIZATION

- Capstone Experiences Research Seminar (June 24-29, 2018), Center for Engaged Learning,** Co-Leader, Elon University, Elon, NC
- 5th Annual Elon BrainCARE Symposium (April, 2018),** Co-Director, Elon University, Elon, NC
- Capstone Experiences Planning Forum (August 2017), Center for Engaged Learning,** Co-Organizer, Elon University, Elon, NC
- 4th Annual Elon BrainCARE Symposium (April, 2017),** Co-Director, Elon University, Elon, NC
- 3rd Annual Elon BrainCARE Symposium (February, 2016),** Co-Director, Elon University, Elon, NC.
- 2nd Annual Elon BrainCARE Symposium (May, 2015),** Co-Director, Elon University, Elon, NC.
- 1st Annual Elon BrainCARE Symposium (April, 2014),** Co-director/Presenter, Elon University, Elon, NC
- Neuroscience Workshop (Oct, 2008),** Coordinator and Presenter, Elon University, Elon, NC.
- Motor Control Symposium (May, 2004),** Lead to Organizing Committee, Arizona State Univ., Tempe AZ
- International Graphonomics Society Conference (2003),** Organizing Committee and Program Committee, Scottsdale AZ.

RESEARCH IN THE NEWS

- Spectrum News (June 21, 2017) Elon University Participating in Concussion Management Study Funded by the NFL <http://www.tvcnews.com/nc/triad/top-videos/2017/06/21/elon-university-participating-in-concussion-management-study-funded-by-the-nfl.html>.

- Furfaro, H (February 27, 2017). For Children Who Have Suffered Strokes, a Promising New Therapy Emerges, Wall Street Journal. Reprint in tdc.com <http://www.tdcs.com/for-children-who-have-suffered-strokes-a-promising-new-therapy-emerges-wall-street-journal-subscription/>
- Reynolds, G. (December 1, 2010) Why Wii Fit Is Best for Grandparents. New York Times health column. <http://well.blogs.nytimes.com/2010/12/01/phys-ed-why-wii-fit-is-best-for-grandparents/>
- Ayres, K. (December 4, 2010) 'Exer-gaming' helps senior drop pounds. *WBOC 16 News*, Salisbury, MD. <http://www.wboc.com/Global/story.asp?S=13613676>
- Doctor Radio: Invited to interview on Sirius/XM Doctor Radio Healthy Aging Show.* December 13, 2010 5:30-6pm. Again for a different show October, 2011.
- Nelson, K. (December 10, 2010) 'Elon professor: Wii perfect fit for older adults'. *Fox New 8, Burlington – Alamance County.* <http://burlington.myfox8.com/content/elon-professor-wii-perfect-fit-older-adults>
- Steakly, L. (December 1, 2010) 'Would an active video game make a good gift for grandpa?' *Ethiopian News & Opinion Journal.* <http://www.ethiopianreview.com/health/201001/?p=148753>

GRANTS

FUNDED (* External Award)

- Faculty Mentor - SURE Grant (Emma McCabe), "Omega-3 DHA impact on cognitive performance in collegiate student-athletes" \$3000 for student and \$3000 for faculty, 2019
- Co- Principal Investigator (C.J. Ketcham, E.E. Hall, M. Shaw, L. Mellinger, A. Tapler, B. Longmire-Avital, C.J. Fleming) - Fund for Excellence in the Arts and Sciences, Elon University, "Mental Health Summit" \$5000, 2019-20
- Faculty Mentor - SURE Grant (Katie Arbogast), "The influence of sports culture on pressures to report concussions based on a socio-ecological framework" \$3000 for student and \$3000 for faculty, 2018
- Faculty Mentor - SURE Grant (Hope Koene), "Caregiver perceptions and perspective of health care barriers and supports for their children with complex developmental disabilities" \$3000 for student and \$1500 for faculty as 2nd grant, 2018
- *CAA Innovative/Collaborative Grant Program (Co-PI; Weaver and Hall) "Innovative Strategies for High Impact Practices: Access, Success, and the CAA Student-Athlete", \$20,000/year, 2017
- Faculty Co-Mentor - SURE Grant (Sara Corning), "Effect of sport on children with special needs, their families, and volunteers" \$3000 for student and \$1500, 2017
- Faculty Mentor - SURE Grant (Kira Oberle), "Dual-task function during cerebellar tDC" \$3000 for student and \$1500, 2017
- Faculty Co-Mentor - SURE Grant (Ian Heaton), "Examination of the Availability and Effectiveness of Social Support Systems Following a Concussion in Student-Athletes" \$3000 for student and \$1500, 2017
- Principal Investigator - FR&D 2017 Summer Fellowship, "Deepen Elon BrainCARE: Mental Health in our Collegiate Student/ Student-Athlete Population" \$8000, 2015, \$1700 additional funds
- *Mind Matters – NCAA Grant (Consultant with Eric Hall)
PI Wyrick/Milroy UNCG, 3 years
- *Role of Rehabilitation in Concussion Management: A Randomized Controlled Trial (PI: Mihalik, J.; Collegiate Site co-PI with Eric Hall) Clinicaltrials.gov, Bethesda (MD): National Library of Medicine (US). Identifier NCT02988596 (Site award - 3 years, \$46,000)
- Co- Principal Investigator (C.J. Ketcham, E.E. Hall, C. Fair) - Fund for Excellence in the Arts and Sciences, Elon University, "Expanding Elon Brain CARE: Adding Mental Health" \$3500, 2016-17
- Faculty Co-Mentor – Lumen Scholar (Sara Corning), "Striking down barriers, striking out the 'fix' mentality: Impact of sport on children with special needs and their support team" \$15,000, 2016
- Faculty Co-Mentor - SURE Grant (Briana O'Grady), "How Does the Severity and Frequency of Impacts Vary Among Different Positions and Age Groups in Youth Ice Hockey" \$3000 for student and \$1500 co-mentor, 2016
- Faculty Co-Mentor - SURE Grant (Jeanine Grabowski), "Frequency and magnitude of head impact forces during football drill across age and position." \$3000 for student and \$1500 co-mentor, 2016
- Faculty Co-Mentor - SURE Grant (Jen Gehrin) "The effect of resveratrol supplementation on balance and gait in a health population" \$3000 for student and \$1500 co-mentor, 2016
- Principal Investigator - FR&D Summer Fellowship, "Motor planning and language development in children with Autism Spectrum Disorder: Transcranial Direct Current Stimulation intervention" \$8000, 2015, \$2700 additional funds

- Co-Principal Investigator (C.J. Ketcham, M. Vandermas-Peeler, C. Fair) – Mentoring Development Grant, “*Communities of practice in undergraduate research*” \$1000, 2015-16.
- Faculty Mentor - SURE Grant (Kathleen Hupfeld), “*Transcranial direct current stimulation: Behavioral and neurophysiological effects on motor planning and motor learning in children with Autism Spectrum Disorders.*” \$3000 for student and mentor, 2015
- Faculty Co-Mentor - SURE Grant (Lauren Brown), “*Balance: Elon BrainCARE*” \$3000 for student and \$1500 co-mentor, 2015
- Faculty Mentor - SURE Grant (Molly Burgoyne), “*Role of Heightened Sensory Tools on Classroom Performance for Students with Learning Differences*” \$3000 for student and mentor, 2014
- Faculty Mentor - SURE Grant (Lauren Packard), “*An Investigation of the Mirror Neuron System in Expert and Novice Individuals*” \$3000 for student and mentor, 2014
- Faculty Mentor - Lumen Scholar (Kathleen Hupfeld), “*Transcranial Direct Current Stimulation: Behavioral and Neurophysiological Effects on Motor Planning and Motor Learning in Children with Autism Spectrum Disorder*” \$15,000, 2014
- Co-Principal Investigator (C.J. Ketcham, E.E. Hall, G. Cochrane¹, J. Cottle¹, K. Messerschmidt¹, K. Harvey¹) - Fund for Excellence in the Arts and Sciences, Elon University, “*Elon BrainCARE Annual Symposium on Concussions: Educating the Elon, Burlington and Alamance County Community about the Impact of Concussions in Student-Athletes*” \$4000, 2014-15
- Co-Principal Investigator (C.J. Ketcham, E.E. Hall) – Mentoring Development Grant, “*Society for Neuroscience, a mentored experience*” \$1000, 2013-14.
- Principal Investigator - FR&D Sabbatical, “*Coordination and control in autism spectrum disorders and concussions: deepening networks, developing new expertise*”, spring 2014
- Co-Principal Investigator (E.E. Hall, C.J. Ketcham, C. Crenshaw, K. Patel, G. Cochrane¹, J. Cottle¹, J. Halligan¹) - Fund for Excellence in the Arts and Sciences, “*Elon BrainCARE: Educating the Elon, Burlington and Alamance County Community about the Impact of Concussions*” \$2000, 2013-14
- Faculty Mentor - Lumen Scholar (Molly Burgoyne), “*Rocking Chairs, Yoga Balls, and Fidget Toys: Role of Heightened Sensory Tools on Classroom Performance for Students with Learning Differences*” \$15,000, 2013
- Principal Investigator - FR&D Summer Fellowship, “*Postural control and history of concussions: variability of center of pressure data in collegiate and high school athletes*”, \$8000, 2013
- Principal Investigator - FR&D Summer Fellowship, “*Tying up loose ends: Reanalyzing, combining and submitting for publication two bodies of research*”, \$8000, 2012
- Faculty Mentor - SURE Grant (Jessica Simermeyer), “*Fine and Gross Motor Ability in Children on the Autism Spectrum, Including the Role of Motor Planning, Task Complexity, and Posture*” \$3000 for student and mentor, 2012
- Faculty Co-Mentor - SURE Grant (Shannon Diehl), “*It’s Your Life, Live It*” \$3000 for student and \$1500 for mentor, 2012
- Faculty Co-Mentor - SURE Grant (Paul Riuli), “*Muscular Responses to an Acute Bout of Whole Body Vibration*” \$3000 for student, 2011
- Faculty Mentor - SURE Grant (Freda Thompson), “*Hippotherapy in Children with Developmental Delays*” \$3000 for student and mentor, 2011
- Co-Investigator (C.J. Ketcham, E.E. Hall, W. Bixby) - ATACC Grant, Elon University, “*Assessment of cognitive and motor processing speed in the classroom and laboratory*” \$4800, 2011
- Faculty Mentor - SURE Grant (Krysten Malcolm), “*Core Muscle Activity, Kinetics, and Kinematics of Dancers*” \$3000 for student and mentor, 2010
- Principal Investigator - FR&D Summer Fellowship, “*Development of Fine Motor Skills in 2-5yr olds*” \$8000, Additional Research Funding \$1500; 2010
- Principal Investigator - CATL Teaching & Learning Grant, “*Balancing Act: Incorporating Measures of Motor Development and Control into Experiential Learning Laboratories and Projects*” \$2,392.00, 2010
- Co-Principal Investigator (C. Ketcham (lead writer), E. Hall, A. Overman, K. Matera, S. Duvall) - Fund for Excellence in the Arts and Sciences, “*Deepening Neuroscience: Training students to become colleagues*” \$3000, 2009-10
- Co-Principal Investigator (C.J. Ketcham, J. Davis) - Dean funding, College of Education, “*Network the high-speed video camera and EMG hardware.*” \$1500, 2009
- Principal Investigator - ATACC Grant, “*HUMAN Software*” \$1700, 2008

Co- Principal Investigator (E. Hall, A. Overman, R. Vick, M Gendle) - Fund for Excellence in the Arts and Sciences, “*Cogito Elon sum: A Proposed Interdisciplinary Approach to Neuroscience at Elon University*” \$5000, 2008-09

Principal Investigator - ATACC Grant, “*OriginLab in Undergraduate Research*” \$1000, 2007

Principal Investigator - VPR Developmental Grant, Texas A&M University, “*Planning and Organization of Multijoint Movements in Parkinson’s Disease Patients*” \$30,000, 5/05-7/06

Participant - VPR/Departmental/College Award for participation in 15-week Grant Writing Course with Dr. David Morrison, Texas A&M University, \$2100, 2004-2005

Principal Investigator / Replacement Student - NASA Graduate Student Researchers Program Award” Replacement student 1999, “*The Role of Vestibular Information in Eye-Head-Hand Coordination*”.

Faculty Research Associate / Graduate Research Assistant (resigned in Jan 2004) - NIH-NINDS R01, PI – George E. Stelmach, “*Movement Organization Deficits in Parkinson’s Disease*” \$1.5 mil, 10/00-9/05

Faculty Research Associate / Graduate Research Associate (resigned in Jan 2004) - NIH-NINDS R01, PI – George E. Stelmach, “*Bradykinesia in Parkinson’s Disease Patients*” \$1.4 mil, 3/01 – 2/06

Faculty Research Associate (resigned in Jan 2004) - NIH-NIA R01 Grant, PI – George E. Stelmach, “*Altered Submovement Structure in the Elderly*” \$1.15 mil, 10/03 – 9/08

EXTERNAL GRANTS SUBMITTED

RWJF (2018, Submitted March): Pioneering Ideas Grant ‘ACT-BELONG-COMMIT: Inspiring a Positive Culture of Mental Health in the Elon University and Alamance County Communities’ **PI: Ketcham, C.J.**, Co-PI: Hall, E.E. *Robert Wood Johnson Foundation*, \$250,000

NIH – NINDS (2016; resubmitted June 2017): R01 ‘Unresolved Post-Concussion Balance Deficits and Subsequent Musculoskeletal Injury’ PI: Thomas Buckley (Univ. of Delaware), **Ketcham, C.J.** (Co-Investigator)

NIH (2015): 2 R15 NS070744-02 ‘Identification of Persistent Impairments in Postural Control Following Concussion’. PI: Barry Munkasy (Georgia Southern), **Ketcham C.J.** (Co-Investigator).

Hall E.E., **Ketcham C.J.** (2011) Access and Barriers to Experiential Learning and Career Development Opportunities for Elon University (Division I) Student-Athletes. *Knights Commission on Intercollegiate Athletics*, \$25,000

Hall E.E., **Ketcham C.J.** (2013) Elon BrainCARE Post-Career Study: A longitudinal assessment of genetics and concussion history on performance and quality of life in student-athletes. *NCAA Research Proposals*, \$300,740

TEACHING

UNDERGRADUATE COURSES

Elon University

ESS 101: Introduction to Exercise Science (100 level) 2010, 2011

Elon 101: First-year Transitions Course (100 level) 2008, 2009, 2011, 2013, 2014, 2015, 2018

HED 111: Contemporary Issues in Wellness (Core Curriculum 100 level) 2007, 2008, 2009

GST 110: Global Experience (General Studies Core Curriculum 100 level) 2009, 2010, 2011

ESS 295: Exercise Science Research Methods (200 level) 2008, 2009, 2013

ESS 263: NeuroMotor Control (200 level) (2009 – 2012 Structural/Functional Kinesiology) 2012 – 2016, 2018, 2019

ESS 281: Practicum (200 level) 2009, 2010, 2011, 2012, 2013, 2016

HNR 230: Growing Up Outside (200 level co-taught honors course) 2018, 2019

DAN 320: Newton Meets Baryshnikov (300 level, interdisciplinary) 2008

GST 316: Growing Up: Coordinating Complex Systems (General Studies 300 level) 2009, 2011

PEH 310: Motor Learning Theory (300 level) 2007

CAS 371: Applying to Graduate School in Arts and Sciences (300 level, co-taught) 2019

ESS 321: Biomechanics (300 level) 2011, 2012 (lab), 2013 (lab)

ESS 375: Motor Control and Special Populations (300 level) 2017

ESS 499: Undergraduate Supervised Research (400 level) 2008 – present

ESS 481: Internship (400 level) 2016, 2017

HNR 498: Honors Research (400 level) 2008 – present

LUM 498: Lumen Research (400 level) 2013 – 18

PEH 421: Chronic and Acute Diseases (400 level) 2007

ESS 495: Senior Seminar (Major Capstone 400 level) 2010, 2011, 2012, 2015, 2017

NEU 495: Neuroscience Seminar (Minor Capstone 400 level) – 2012, 2016, 2017

Texas A&M University

Analysis of Movement/Exercise Biomechanics (400 level) – 2004 - 2007

Research in Exercise Physiology and Motor Behavior: Writing Intensive (400 level) - 2007

Undergraduate Supervised Research (400 level) – 2005 – 2007

Arizona State University

Activities Courses (100 & 200 level) – 1997-1999

Introduction to Kinesiology (200 level, Guest Lecture) – 1999 – 2002)

Motor Control and Aging (400 level) – 2000, 2002

GRADUATE COURSES

Texas A&M University

Disabling Conditions & Other Health Impairments: Motor Control (600 level) – 2004; 2005

Neurophysiological Basis of Movement (600 level) – 2005

Motor Behavior Seminar (600 level) – 2005

Graduate Supervised Independent Research (600 level) – 2005 – 2007

UNDERGRADUATE RESEARCH MENTORING ^{(1)Honors Fellow, ^{(2)Elon College Fellow,}}

<sup>(3)Exercise Science Senior Seminar Substitution Project, ^{(4)Co-mentored with significant contribution, ^{(5)Lumen Scholar,}}
^{(6)Independent Major).} *All students present at a minimum at the institutional undergraduate research conference. Those with presentations at regional, national and international conferences are listed in scholarly presentations. Only students that worked with me over 2 semesters minimum are listed.*</sup>

Elon University

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|--------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| 1. Katie Volkerding ('07-'09) ¹ | 24. Kelsey Evans ('12-'14) ^{3, 4} | 47. Sara Corning ('16-18) ^{1, 3, 4, 5} |
| 2. Katie Bigarel ('08-'09) | 25. Molly Burgoyne ('13-'15) ^{2, 5} | 48. Bryce Kryzenski ('16- 17) ⁴ |
| 3. Isabelle Matejovsky ('09-'10) | 26. Kathleen Hupfeld ('13-'16) ^{1, 3, 5} | 49. Corinne Kenny ('16-18) ⁴ |
| 4. Kaitlin Bogart ('09-'10) | 27. Emily Messerschmidt ('13-'15) ⁴ | 50. Emily Keller ('16-) ² |
| 5. Bridget Kelly ('09-'11) | 28. Kayla Harvey ('13-'16) ^{2, 4} | 51. Ian Heaton ('16-18) ⁴ |
| 6. Krysten Malcolm ('09- '11) ¹ | 29. Lauren Packard ('13-'15) ⁶ | 52. Francesca Music ('17-18) ^{4, 5} |
| 7. Sarah Foushee ('09-'10) | 30. Kara Soler-Sala ('14-'15) | 53. Sarah McCain ('17-18) ⁴ |
| 8. Julie Taylor ('10-'11) | 31. Logan Standard ('15-'16) ⁴ | 54. Ashley Moats ('17-18) ⁴ |
| 9. Freda Thompson ('10 – '12) | 32. Rachel Hallman ('15-17) ⁴ | 55. Brigid Brennan ('17-18) ⁴ |
| 10. Bridget Cashen ('10-'11) | 33. Kelsey Warren ('15-'16) ⁴ | 56. Taylor Guth (intern '17) ⁴ |
| 11. Lindsey Wolson ('10-'12) | 34. Julianne Beck ('15-'16) ⁴ | 57. Andrew Perciaccante (HS intern '17) ⁴ |
| 12. Courtney Graham ('10-'11) | 35. Megan Griffin ('15-'16) ⁴ | 58. Chris Riegner ('17-) ⁴ |
| 13. Andrea Gross ('11-'12) ^{2, 4} | 36. Lauren Brown ('15-17) ⁴ | 59. Caroline Kelly ('17-18) ⁴ |
| 14. Kelly Brand ('11-'12) ^{2, 4} | 37. Jeanine Grabowski ('15-17) ⁴ | 60. Hope Koene ('17-) ¹ |
| 15. Paul Riuli ('11-'12) ⁴ | 38. Nicole Dennion ('15-16) ⁴ | 61. Katie Arbogast ('17-) ⁴ |
| 16. George Wentz ('11-'12) ⁴ | 39. Brighton Summers ('16-17) ⁴ | 62. Emily Sprague (intern '18) ⁴ |
| 17. Jessica Simermeyer ('11-'13) ³ | 40. Briana O'Grady ('15- 17) ⁴ | 63. Morgan Schmidt ('18-) ⁴ |
| 18. Rachel Anderson ('11-'12) | 41. Jennifer Gerhin ('15-17) ⁴ | 64. Madeline Campbell ('18-) ⁴ |
| 19. Shannon Diehl ('11-'13) ^{3, 4} | 42. Bridget Krohl ('15-18) ⁴ | 65. Emma McCabe ('18-) ⁴ |
| 20. Graham Cochrane ('12-'15) ^{2, 4, 6} | 43. Kira Oberle ('15-18) ² | 66. Emily Klevan ('18-) ^{2, 4} |
| 21. Jack Halligan ('12-'14) ⁴ | 44. Sarah Kaye (intern '16) ⁴ | 67. Alanna Dobson ('18-) ^{1, 4} |
| 22. Jordan Cottle ('12-'15) ⁴ | 45. John Gallagher ('16-17) ⁴ | |
| 23. Haley Hawkins ('12-'14) ^{1, 3} | 46. Daniel Lynch ('16-17) ⁴ | |

Texas A&M University

- | | | |
|------------------------------|------------------------------------|---------------------------|
| 1. Sofia Costa ('05) | 7. Abby Dudensing ('05-'07) | 13. Lesel Selensky ('06) |
| 2. Courtney Golden ('05) | 8. Christopher Pritchard ('05-'06) | 14. Natasha Becka ('06) |
| 3. Cortney Jarvis ('05) | 9. Allison Daly ('05) | 15. Jenny Spearman ('06) |
| 4. Donaciano Munoz Jr. ('05) | 10. Leah Bates ('05) | 16. Keith Kahil ('07) |
| 5. Kayla Felderhoff ('05) | 11. Jennifer Abshier ('05) | 17. Terry Dike ('07) |
| 6. Seth Spurgers ('05) | 12. Jennifer Long ('06) | 18. Braedan Haragan ('07) |

UNDERGRADUATE RESEARCH STUDENT HONORS

Elon University

1. Hope Koene – 2018 Rawls Scholar
2. Lauren Brown – 2016 Trey Walker Scholar; 2015-16 Provost Scholar; 2016-17 Phillips-Perry Black Excellence Award – Undergraduate Research; 2016-17 Dean Ehlers Leadership Award, Young Trustee
3. Jeanine Grabowski – 2017 SEACSM nominee student paper award; Rawls Undergraduate Research Scholar 2017-17
4. Briana O’Grady – 2016-17 Provost Scholar; 2017 SEACSM nominee student paper award; Rawls Undergraduate Research Scholar 2017-17
5. Brighton Summers – Rawls Undergraduate Research Scholar 2016-17
6. Sara Corning – Lumen Scholar 2016
7. Nicole Dennion ’16 - National Association of Academic Advisors for Athletics (N4A) Wilma Rudolph Student-Athlete Achievement Award
8. Kara Soler-Sala – 2nd place award for student paper/presentation at SEACSM 2015, Phi Beta Kappa
9. Lauren Packard – Glen Raven Scholar 2014-15
10. Kathleen Hupfeld – Lumen Scholar 2014; Trey Halker Award 2015; NSF Graduate Research Fellowship; Major of the Year in Exercise Science 2016; Phi Kappa Phi Marcus L. Urnann Fellowship, Phi Beta Kappa, Phi Kappa Phi; 2015-16 Provost Scholar
11. Molly Burgoyne – Lumen Scholar 2013; Selected for Hot Topics in Neuroscience media coverage SFN; Trey Halker rising senior award 2014; Major of the Year in Exercise Science 2015, Phi Beta Kappa, Phi Kappa Phi
12. Haley Hawkins – Glen Raven Scholar 2013-14
13. Kelsey Evans – Glen Raven Scholar 2012-13; SoCon Post Graduate Scholarship 2013; Major of the Year 2013
14. Shannon Diehl – Trey Halker rising senior award 2012; Major of the Year 2013; Phi Kappa Phi
15. Haley Hawkins – GSK women in science award, 2012; Honors Student 2014
16. Freda Thompson – Nominated for top 7 interview for Ward Family Learning in Action Award, Elon University; Major of the Year 2010
17. Krysten Malcolm - 2011 SEACSM nominee student paper award;; Honors Student 2012
18. Bridget Kelly (IADMS 2010) – President’s Award for Poster Excellence (Highest Overall Score); RAWLS (Saecker) Scholar 2011
19. Sarah Foushee – Phi Beta Kappa, Phi Kappa Phi
20. Katie Volkerding –RAWLS Scholar 2009

Texas A&M University

1. Abby Dudensing (2007) – Kinesiology Undergraduate of the Year
2. Abby Dudensing (2004 – 2007) – Undergraduate Research Scholar, ‘Multijoint two-segment aiming in young adults: Influence of movement amplitude and direction’
3. Abby Dudensing (2006) – Read Scholar; Texas Rural Electric Woman’s Association Scholar

Arizona State University

1. Janet Staples (2002-2003) – Fulbright Scholar, Honor’s Thesis Co-Supervisor, ‘Adaptation to Sensorimotor Distortions in Older Adults’

GRADUATE MENTORING

Texas A&M University

Committee Chair

1. Tiffany Rodriguez (Sept 2004 – 2007) Doctoral Student, Chair
2. Renee Carter (Sept 2005 – 2007) Masters Student, Chair
3. Kirk Zihlman (Jan 2004 – change to MS March 2005), Doctoral Student, Chair

Committee Member

1. Tiffany Rodriguez (2009), PhD, Kinesiology
2. Joohyun Rhee (2007), PhD, Kinesiology
3. Noah Smith (2007), MS, Computer Science
4. Huei-Fang Yang (2007), PhD, Computer Science
5. Alicia Favreau (2006), MS, Educational Psychology
6. Amanda Stavinoha (2006), MS, Educational Psychology
7. Jennifer Wimberly (2006), MS, Educational Psychology
8. Heather Wilde (2004) PhD, Kinesiology, 'Proportional and non-proportional transfer of movement sequences'
9. Kirk Zihlman (2005) MS, Kinesiology, 'Is physical practice necessary for parallel development of implicit and explicit sequence knowledge? Evidence from observational learning'
10. Alberto Cordova (2005) MS, Kinesiology, Non-thesis

GRADUATE ADVISEE HONORS

Tiffany Rodriguez: Motor Control Summer School Fellowship. Penn State University.

Tiffany Rodriguez: March 2007, 2nd place oral presentation. Texas A&M University Student Research Week

Tiffany Rodriguez: November 2006, 1st Place Graduate Life Sciences Award Winner. Texas A&M University, Pathways Research Symposium

Tiffany Rodriguez: March 2006, Interdisciplinary Research Recognition Award Winner. Texas A&M University Student Research Week

Tiffany Rodriguez: March 2006, 4th place oral presentation, Texas A&M University Student Research Week

Renee Carter: March 2006, 4th place poster presentation, Texas A&M University Student Research Week

Tiffany Rodriguez: Spring 2006, Texas State Academic Scholarship.

Tiffany Rodriguez: 2005 – 2008, Diversity Fellowship Award. Texas A&M University. This is a 3-year \$75,000 award to pursue a doctoral degree under my direction.

Kirk Zihlman: 2005, Educational Research Exchange. College of Education Overall Research-Based Award. "Reciprocal aiming movements are impaired in Stroke patients when accuracy is constrained: Ipsilateral contributions to deficits experienced following a lesion", \$500.

PROFESSIONAL SERVICE**NATIONAL/INTERNATIONAL**

Ad Hoc Reviewer: *Experimental Brain Research, Psychology and Aging; Research Quarterly for Exercise and Sport; Motor Control; Journal of Sports Sciences; Neuropsychology; Journal of Gerontology; Human Movement Sciences; Behavioral Brain Research; Journal of Motor Behavior; Journal of Exercise and Sport Psychology; Acta Psychologica; Journal of Cross-Cultural Gerontology; Psychology and Aging; Neuroscience Letters*

Co-editor special issue of PURM: Mentoring Models, Co-Mentoring, Mentoring Networks (2017)

Book Reviewer: *Pearson – Child Development Text (2008, 2009, 2010)*

Program Committee, International Graphonomics Society Conference, Salerno, Italy (2005)

Organizing Committee, Motor Control Symposium, Tempe AZ (2004)

Organizing Committee, Program Committee International Graphonomics Society Conference, Scottsdale AZ (2003)

COLLEGE/UNIVERSITY**Elon University**

Co-Chair, Wellness Workgroup, Design Team Act-Belong-Commit, 2017 – present

Lumen Advisory Committee, 2018 – present

Pre-Health Pathways Committee, 2018 - present

Long-Range Planning Committee, 2016 – present

Graduate Council, 2016 – present (chair 2017-18)

Chair, Associate Dean Search Committee, Elon College, 2016

Speech Language Pathology Feasibility Committee, 2015

Peace Corps Prep Global Health Track Development Committee, 2015
Elon College Faculty Awards Committee, 2015
Year of Service, Elon Alamance Health Partners Faculty, 2014 - 2016
Anatomy Donor Feasibility Committee, 2014
Senior Faculty Research Fellow Selection Committee, 2013-14, 2014 -15, 2015-16 (chair)
Scholarship Document Committee, 2013
Assistant Director of Career Services for Arts and Sciences Search Committee, 2013
Director Health Professions, 2012 – 2015
Promotions and Tenure, 2012- 13, 2013-14
Physician Assistant Admissions interviews, 2011 – present
University Appeals Board, 2011 - 13
Danieley Neighborhood Council, 2011 - 2013
Math and Science Division Curriculum Committee, 2011 - 2012
Anatomy Course Revision Committee, 2011 - 2012
Member, Program Director for Elon Physician Assistant Program Search Committee, 2010 – 2011
Member, Clinical Coordinator, Director of Curriculum, and Faculty Search Committees for Elon Physician Assistant Program, 2011 – 2012
Interdisciplinary Committee on Course-Based Alcohol Education, 2010 - 2011
Pre-Health Advisory Committee Member, 2010 – present (Chair 2012-15)
Voices of Discovery Committee, 2010 – 2013
Concerned Faculty and Staff Co-Curricular Advising Program Mentor, 2010 – 2011
Neuroscience Program Advisory Committee, 2009 – present
Honors Program Advisory Committee, 2009 – 2011
Task Force on Service (Lead of Subcommittee on defining rank responsibilities), 2009 – 2011
Engaged Learning Session Leader – 2009, 2010, 2011
Elon 101 Instructor, 2008, 2009, 2011, 2012, 2014
Alamance Regional Medical Center IRB – Elon Representative, 2008 - 2014
Shared Governance Task Force (Chair of Subcommittee on Task Forces and Service), 2008 - 2010
Member, Assistant Professor Search, Biology, 2009 – 2010 (2 searches)
SURE Presentations Moderator – 2010
SURF Presentations Moderator – 2010
Honors Presentations in Progress Moderator – 2008, 2010
Coordinator and Presenter: Neuroscience Workshop, 2008

Texas A&M University

Texas A&M University Honors Council (2006 – 2007)
Member of the Women’s Faculty Network Executive Steering Committee (2006 – 2007)
Expanding Your Horizons – Workshop Presenter, ‘Brain Explorers’, Introducing neuroscience to 6th grade girls. (2005)
Aggie Women in Leadership Program Mentor (2005-present)
Faculty of Neuroscience, Student presentation judge (2005)
Educational Research Exchange, Oral presentation faculty judge (2005; 2006)
Student Research Week, Faculty Judge, Texas A&M University (2004 – 2007)
International Education Fee Scholarship Faculty Reviewer (2005)
Regents Scholar Mentor (2004-2007)

Arizona State University

ASASU Graduate Research Support Program Peer Review Committee (2002-2003)
Laboratory Tours, ‘Discovery of the Mind’, Special guest visitors (1998-2004)
Coordinated and Organized ‘Brain Day Seminar 2000’
Graduate Student Advisory Board (2000-2001)
Departmental Graduate Representative (2001-2004)

DEPARTMENTAL**Elon University**

Department Chair, June 2014 – Present
 Search Committee (2 assistant professor positions), 2018 – present
 Faculty Development Committee – 5-year plan
 Developed Exercise Science Accomplishment Sheet
 Chair, Assistant Professor Search, Exercise Science, 2010 – 2011
 Fellows weekend class demo – 2011
 Spring Orientation / Open House, 2007 – present
 Fall Exercise Science Get Together Organizer, 2008
 Chair, Academic Challenge Committee, 2007
 Search Committee Continuing Track Faculty, Health and Human Performance, 2007

Texas A&M University

A-1 Service Committee, 2006
 Invited Speaker, PEK, 2005
 Laboratory Tours, Freshman Learning Communities, 2005
 Departmental Representative Freshman Convocation, 2004
 Invited Speaker, Aggie Alliance, 2004
 Motor Behavior Seminar Organizer, 2005

Arizona State University

Member of Search Committee – Engineering Associate, 2002
 Seminar Coordinator Motor Control, 1999 – 2004
 Student Member of a Search Committee – Muscle Physiologist, 2001
 Ph.D. Seminar Committee, 2000 – 2001
 Ph.D. Handbook Committee, 2000
 Laboratory Representative, 1999 – 2004
 Laboratory Coordinator, 1999 – 2004
 Motor control WebPages designer and manager, 1999 - 2004
 Flinn Seminar Coordinator - Set up seminars for visiting lectures, 1999 – 2001

COMMUNITY

Ketcham C.J. ‘Motor Matters’, *Parents Weekend Mini Course, Elon University, October 2017*
Ketcham C.J. ‘Motor Matters: Movement and Learning in the Classroom’, *Training for all teachers – Grady Brown Elementary, September 2017*
Ketcham C.J., Butler-Storsved L. ‘Motor Matters: K-5 Teachers’, *STEM workshops for Alamance Burlington School District Teachers, August 2017*
Ketcham C.J., Hupfeld K.E.¹ ‘Motor Matters in Autism Spectrum Disorders’. *Training for Durham Orange Chatham North Carolina Association for the Education of Young Children, April 2016,*
Ketcham CJ, Burgoyne M.¹ ‘Yoga balls as classroom seating’, Hillsborough Elementary School, January 2015.
Ketcham CJ ‘Motor Matters’, in service for Orange County (scheduled, delayed due to principal change).
Ketcham C.J. Motor Matters: The role movement plays in the developing child. *Training for Department of Clinical Speech, Duke University, March 2014.*
Ketcham CJ ‘Balance: What is involved, How to improve’ Presented to the Oaks Community Parkinson’s Disease Support Group, April 7, 2011
 Mebane Running Club – Member and New Runners Coach, 2009 – 2013
 Presented on topics including: Mechanics of Running, Injury Prevention
 Research Design/Analysis Consultant and Member, Mebane Women’s Club, Healthy Alamance, Healthy Mebane Initiative, 2010
 Exercise Science Representative, Aging Academy, Elon University Outreach 2009
Ketcham CJ ‘Motor Control and Aging’ Presented to residents of Lunac Oaks, December 13, 2005

- Ketcham CJ** ‘Motor Control and Parkinson’s Disease’ Presented to the St. Joseph’s Rehabilitation Parkinson’s activity class, September 20, 2005
- Ketcham CJ** ‘Motor Control and Stroke’ Presented to the St. Joseph’s Rehabilitation Stroke Club, June 10, 2004
- Ketcham CJ** ‘Motor Control and Aging’ Presented to Grand Court Residents, July 6, 2004, to Crestview residents July 16, 2004
- Ketcham CJ** ‘Multijoint Coordination in Parkinson’s Disease’ Presented to Sun City Parkinson’s Disease Foundation Chapter, Spring 2002, 2003
- Motor Control Representative – Arizona Parkinson’s Disease Foundation (2000-2004)
- Motor Control Fundraiser – both to raise money and educate the greater community about current research conducted on Motor Control and Parkinson’s disease. (1999-2004)

PROFESSIONAL AFFILIATIONS

- | | |
|----------------|--------------------------------------------------------------------------------|
| 2012 – present | American College of Sports Medicine (ACSM) |
| 2011 – present | South East American College of Sports Medicine (SEACSM) |
| 2009 – present | Council on Undergraduate Research |
| 1998 – present | Society for Neuroscience |
| 2012 – 2016 | National Association of Advisors for Health Professions |
| 2005 – 2012 | North American Society for Psychology of Sport and Physical Activity (NASPSPA) |
| 2004 – 2007 | TAMU Society for Neuroscience |
| 2002 – 2010 | Neural Control of Movement Society |
| 2004 – 2007 | TAMU Faculty Women’s Association |
| 2004 – 2007 | TAMU Women in Science and Engineering |
| 2004 | Phi Epsilon Kappa, Gamma Beta |
| 2001 – 2012 | International Graphonomics Society |
| 2000 – 2001 | Student member Society for Cognitive Neuroscience |
| 2000 – 2001 | Preparing Future Faculty Fellow |
| 1997 – 2001 | Flinn Foundation Neuroscience Research and Training program |
| 1997 – 2003 | Interdisciplinary Training in the Neurobiology of Motor Control |

PROFESSIONAL DEVELOPMENT

- | | |
|-------------|-----------------------------------------------------------------------------------------------------|
| 2018 – 2020 | Co-Leader, Center for Engaged Learning Research Seminar on Capstone Experiences, Elon University |
| 2017 | Co-Leader, Center for Engaged Learning Capstone Experiences Planning Forum, Elon University |
| 2017 | Honors Teaching Workshop, 3-day course development, Elon University |
| 2017 | Academic Leader as Coach: Skills for Transformational Conversations, Susan Robison, Elon University |
| 2014 – 2016 | Center for Engaged Learning Research Seminar on Mentoring Undergraduate Research, Elon University |
| 2016 | Teaching in STEM – book club, CATL |
| 2014 | ADL Training |
| 2014 | National Health Professions Conference, San Francisco, CA. |
| 2013 | PKAL Regional Meeting |
| 2013 | PKAL Summer Leadership Institute for STEM, Baca, Colorado |
| 2013 | North Carolina Health Professions Conference |
| 2013 | AMCAS 2014 Advisor Application Training |
| 2012 | Regional Health Professions Conference |
| 2012 | ADVANCE, N.C. AT&T State University |
| 2010 | MovAlyzeR Software Training, Neuroscript LLC, Tempe, AZ |

2010 – 2011	Interdisciplinary Committee on Course-Based Alcohol Education
Fall 2010	Linked GST/MTH course program
2010 – 2012	Global Experience Lunch Series
2010	CATL Rubric Development (one-on-one mentoring in improving standards of grading student work)
2009	DEEP Diversity Training
2009	Summer Online Course Development Workshop Series
2009	Sustainability Faculty Scholar
2009	EEG Workshop
2008	Leadership Minor Workshop
2008, 2009	Elon 101 Workshop
2008 – 2012	Global Workshops
2008 – 2009	Summer Online Design Course, Elon University
2008	Innovation in Instruction Conference, Elon University
2008	New Course Design, CATL, Elon University
2007 – 2008	New Faculty Orientation Series, Elon University
2008	Reading Group, First Year on the Tenure Track, Elon University
2007	Teaching Strategies Conference, Elon University
Spring 2005	Audited Dr. Asworth's (former commissioner of Higher Education, Texas) 'Entrepreneurship in the Public Service: The Uses of Discretion, Initiative and Creativity'
Spring 2005	Grant Writing Workshop (semester long), VPR, Texas A&M University
Fall 2004	Grant Writing Seminar, VPR, Texas A&M University
Spring 2004/05	NSF CAREER award workshop, VPR, Texas A&M University
2004 – 2007	Faculty Development Series, Dean of Faculties, Texas A&M University
2000 – 2001	Preparing Future Faculty Fellow, Arizona State University
2001	Fundamentals and Signal Processing, Matlab Workshop, Phoenix, AZ