

CAROLINE J. KETCHAM, PhD

PROFESSOR
Department of Exercise Science

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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

2014 – 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 – 2022	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

2023	CAA Research Scholar Award
2023	Distinguished Scholar Award, Elon University
2021	2021-23 CEL Scholar, Elon University
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

ADMINISTRATIVE LEADERSHIP EXPERIENCES

Administrative Experiences

Strategic planning, budget management, supervisor, scheduling, program development, building partnerships, grant writing, donor outreach

Chair, Department of Exercise Science (2014 – 2022)

- Direct supervisor for a department of 10 faculty and ~200-250 majors
- Manage departmental budgets, schedules, and curricular offerings
- Hired and onboarded 7 new faculty; mentor and provide professional development
- Led two 5-year strategic planning processes (included self-study and external review)
- Facility planning for expansion departmentally and new Integrated Wellness facility
- Implemented DEI department policies and practices
- Supported a culture of scholarly productivity, mentoring constellations, and targeted service

Co-Director, Elon BrainCARE Research Institute (2014 - current)

- Founding co-director, built infrastructure, named, marketed
- Identify collaborators, apply for and secure for external funding
- Work with advancement for donor support, Pursue grant funding
- Coordinate baseline and post-injury concussion testing of ~400 athletes and update concussion management protocols annually, supporting 2 physicians and 8 athletic trainers
- Mentor students in undergraduate research and supervise graduate interns from nearby programs.
- Support Act-Belong-Commit, HealthEU campus wellbeing framework
- Organize and host annual conferences

Director of Health Professions Advising (2012 – 2015)

- Restructured and expanded advising process and materials
- Managed all the application and data for all health professions
- Supported admissions and advancement
- Support health profession cohort advising courses and scholarship programs
- Evaluated and awarded scholarship annually through an interview weekend.

INSTITUTIONAL PRIORITIES LEADERSHIP, SERVICE, & DEVELOPMENT EXPERIENCES

Diversity, Equity, and Inclusion

Personal development, campus-wide leadership, research related to higher education DEI climate, pursuing funding

Knight Commission Award (Co-Investigator): Building a meaningful mentoring program with and for Black college athletes at a predominantly White institution. (1 of 4 awarded this cycle)

- Mentored data collection (survey and focus groups) from current and past black student-athlete
- Partnered with existing mentoring programs to support black athletes needs

CEL Scholar, Equity in High-Impact Practices: Neurodiverse and Physically Disabled Students (2021 –)

- Collaborated with students, faculty, and staff to understand the student experience contributing to an academic blog series
- Convene and led think tank focused on neuroinclusive practices in engaged learning
- Selected as next CEL research seminar lead on Neuroinclusive practices in engaged learning

Co-Chair, Diversity Equity and Inclusion Professional Development and Evaluation Workgroup (2021)

- Co-led a committee report and recommendations that are being implemented by Assoc Provost
- Partnered with Inclusive Excellence to lead campus conversation and workshops on DEI professional development for faculty

Orange County Schools Equity Task Force (2021 – current)

HHMI Faculty Forum and Writing Team (2019 – 21)

Racial Equity Institute – Ground Water Approach Training (2020)

High-Impact Practices

Multi-institutional research and leadership of engaged learning

Co-Leader, Center for Engaged Learning: Inclusive and Affirming Engaged Learning for Neurodivergent Students (2024 – 26)

- Led think tank in July 2023 and a planning forum in October 2023 to plan
- Will lead a 3 year multi-disciplinary and multi-institutional research seminar
- Coordinate research teams and lead publications on overarching themes.

CEL Scholar, Equity in High-Impact Practices: Neurodiverse & Physically Disabled Students, Center for Engaged Learning, Elon University (2021 – 23)

- Wrote peer-reviewed academic blogs on topics related to access and success for these populations
- Deep dive research to support faculty development related to these populations

Co-Leader, Center for Engaged Learning Research Seminar, Capstone Experiences (2017-21)

Participant, Center for Engaged Learning Research Seminar, Mentoring Undergraduate Research (2016-18)

PKAL Summer Leadership Institute for STEM, Baca, Colorado (2013)

Wellness and Well-Being Campus Initiatives

Campus leader on implementing a bold wellness campaign and recommendations: Act-Belong-Commit for a Mentally Healthy Elon – Now HealthEU; Leading integrated wellness vision and model

Co-Chair, Wellness and Well-Being Workgroup, Design Team Act-Belong-Commit, 2017 – 2019

- Led committee on identifying wellness model after looking at literature and institutional models
- Adopted a framework that is evidenced based and unique in higher education settings
- Met with and presented to a variety of stakeholders including student organizations, parents, board of trustees, faculty and staff, programs, and departments
- Collaborated with programs and departments across university to implement framework in their work and spaces
- Applied for and awarded multiple internal and external grants to support work
- Collaborated and lead the organization and hosted a Mental Health Summit bringing in international leaders in the adopted Act-Belong-Commit framework to support campus implementation
- Collected data on student involvement to inform strategic implementation of HealthEU

Integrated Wellness Center Vision Taskforce (2021 – 2023)

- Mission statement small committee
- Joined small team to visit institutions to understand facilities and models
- Worked with architects on building goals and plans

Executive Member, Council on Wellness and Well-Being (2019 - current)

- Strategic planning
- Convening stakeholders
- Implementing HealthEU initiatives
- Processing assessment data

Gaining Institutional Perspective through Service

Service roles that have expanded my knowledge about institutional structures and practices

STEM Center Working Group, 2023 – present

CATL, Post-Probationary Mentoring Program Co-Lead (summer 2022)

Integrated Wellness Center Vision Taskforce, 2021 - 2023

Chair, Graduate Council, 2017-18 (member 2016-18)

Promotions and Tenure, 2012- 14

Long-Range Planning Committee, 2016 – 20

Task Force on Service: Chair of Subcommittee - defining rank responsibilities (2009 – 11)

Shared Governance Task Force: Chair of Subcommittee on Task Forces and Service (2008 – 10)

SCHOLARLY PUBLICATIONS ¹mentored student; * I put student authors 1st ~ these are considered 1st author publications in my field; links will send you to paper; ^consortium investigator as site PI

EDITED BOOKS

- Ketcham C.J.**, Weaver A.G., Moore J.L. (Eds) (2023). Cultivating capstones: Designing high-quality culminating experiences for student learning. *Stylus Publishing: Engaged Learning and Teaching Series*
- Hall E.E., **Ketcham C.J.** (Eds.) (2017). Concussion in Athletics: Assessment, Management and Emerging Issues: Hauppauge, NY: Nova Science Publishers.

PEER-REVIEWED PUBLISHED MANUSCRIPTS

- Ketcham C.J.**, Hall E.E. (In Press). Applying a neuroinclusive lens to salient practices of mentoring undergraduate research. *Perspectives in Undergraduate Research Mentoring*.
- Register-Mihalik JK, Guskiewicz KM, Marshall SW, McCulloch KL, Mihalik JP, Mrazik M, Murphy I, Naidu D, Ranapurwala S, Schneider KJ, Gildner P, Salmon D, Auton B, Bowman TG, Hall EE, Hynes LM, Jewell E, **Ketcham CJ**, Wesley Siler C, Sullivan SJ, Kostogiannes V, McCrea MA. (Under Revision). Symptom Exacerbation and Adverse Events during a Randomized Trial of Early-stage Concussion Rehabilitation. *Journal of Athletic Training*.
- Hall E.E., **Ketcham C.J.**, Walkington H. (2023). Centering Mental Health and Wellbeing in Practices of Mentoring Undergraduate Research. *Perspectives in Undergraduate Research Mentoring*, 11.1, 1-10.
- Ketcham C.J.**, Bell L., Hall E.E., Weaver A.G. (2022). Intercollegiate athletics as a high-impact practice: Examination of quality indicators. *Journal of Higher Education Athletics & Innovation*, 1(9), 61-81. doi: [10.15763/issn.2376-5267.2021.1.9.61-81](https://doi.org/10.15763/issn.2376-5267.2021.1.9.61-81)
- *Shirley C.¹, **Ketcham C.J.**, Hall E.E., DeVita J.M., Weaver A.G. (2022). Access to high-impact practices in student-athletes: Barriers, supports, and best practices. *Journal for Study of Sports and Athletes in Education*. doi: [10.1080/19357397.2022.2100206](https://doi.org/10.1080/19357397.2022.2100206)
- Allocco A.L., Vandermaas-Peeler M., Hall E., **Ketcham C.**, Idris M., Hamel J.A., Marshal D.J.. (2022). Undergraduate research in the global context: Models and practices for high quality mentoring. *Mentoring and Tutoring: Partnership in Learning*, 30(1), 106-123, doi: [10.1080/13611267.2022.2031084](https://doi.org/10.1080/13611267.2022.2031084)
- Carter P.N.¹, Hall E.E., **Ketcham C.J.**, Ahmed O.H. (2021). Not just for dancing? A content analysis of concussion and head injury videos on TikTok. *Frontiers in Sports and Active Living Injury Prevention and Rehabilitation*, 3: 692613. doi: [10.3389/fspor.2021.692613](https://doi.org/10.3389/fspor.2021.692613)
- *McCabe E.M., **Ketcham C.J.**, Hall E.E. (2021). Good Food, Good Mood: Perspectives on the Relationship Between Nutrition and Mental Health With Division I Collegiate Athletic Programs. *Front. Sports Act. Living* 3:692601. doi: [10.3389/fspor.2021.692601](https://doi.org/10.3389/fspor.2021.692601)
- Hall E.E., Bailey E., Higgins S., **Ketcham C.J.**, Nepocatysh S., Wittstein M.W. (2021). Application of the salient practices framework for undergraduate research mentoring in virtual environments. *Journal of Microbiology and Biology Education*, 22 (1), 22.1.92. doi: [10.1128/jmbe.v22i1.2287](https://doi.org/10.1128/jmbe.v22i1.2287)
- Messerschmidt E.L.¹, Hall E.E., **Ketcham C.J.**, Patel K., Vallabhajosula S. (2021) Gait assessment in collegiate athletes: Do concussion history, symptoms, gender and type of sport matter? *Journal of Sports Rehabilitation*, 30(7), 988-999. doi: [10.1123/jsr.2019-0331](https://doi.org/10.1123/jsr.2019-0331).
- *Corning S.¹, **Ketcham C.J.**, Hall E.E. (2020). Striking Down Barriers: Parents' Perspectives of Youth Sport Programs for their Children with Disabilities. *Advances in Physical Education*, 10 (4), 459-474. DOI: [10.4236/ape.2020.104036](https://doi.org/10.4236/ape.2020.104036)
- Fuller N.J., Kroshus E., Hall E.E., **Ketcham C.J.** (2020). Parent influence on concussion reporting in first-year collegiate athletes. *Journal of American College Health*, Ahead-of-Print, 1-10 <https://doi.org/10.1080/07448481.2020.1809430>
- Hall E.E., Palomaki Z., **Ketcham, C.J.**, Weaver A.G. (2020). Undergraduate research participation in student-athletes: Lessons learned and what mentors can do. *Perspectives in Undergraduate Research Mentoring*, 9.1, <https://www.elon.edu/u/academics/undergraduate-research/purm/wp-content/uploads/sites/923/2020/12/Hall-et-al.pdf>
- ^Register-Mihalik J.K., Guskiewicz K.M., Marshall S.W., McCulloch K.L., Mihalik J.P.¹, Mrazik M., Murphy I., Naidu D., Ranapurwala S.I., Schneider K., Gildner P., McCrea M., and the **Active Rehab Study Consortium Investigators**. (2019). Methodology and implementation of a randomized controlled trial (RCT) for early post-concussion rehabilitation: The Active Rehab Study. *Frontiers in Neurology*. <https://doi.org/10.3389/fneur.2019.01176>

- Evans E.S., **Ketcham C.J.**, Hibberd J.C., Cullen M.E., Basiliere J.G., Murphy D.L. (2019). Examination of clinical and laboratory measures of static and dynamic balance in breast cancer survivors. *Physiotherapy Theory and Practice*, online first. DOI: [10.1080/09593985.2019.1692391](https://doi.org/10.1080/09593985.2019.1692391)
- Blake A.¹, McVicar C.L.¹, Retino M.¹, Hall E.E., **Ketcham C.J.** (2019) 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*, 5(1), 72-77. <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. (2019) Turn characteristics during gait differ with and without a cognitive demand among collegiate athletes. *Journal of Sports Rehabilitation*, 12, 1-20. <https://doi.org/10.1123/jsr.2018-0129> PMID: 30860425
- 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>
- Ketcham C.J.**, Cochrane G.D.¹, Brown L.¹, Vallabhajosula S., Patel K., Hall E.E. (2019) Neurocognitive performance, concussion history and balance performance during a distraction dual-task in collegiate student-athletes. *Athletic Training and Sport Health Care*, 11(2). 90-96 [doi:10.3928/19425864-20180313-02](https://doi.org/10.3928/19425864-20180313-02)
- *Oberle K. ¹, **Ketcham C.J.** (2018) Cerebellar transcranial direct current stimulation and dual-task performance. *Neurology and Neurotherapy*, 3(1): 1-8; [doi:10.23880/nnoaj-16000122](https://doi.org/10.23880/nnoaj-16000122)
- 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)
- Nepocatych 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. [PDF LINK](#)
- 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. [PDF LINK](#)
- 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](https://doi.org/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.v3i4.730](https://doi.org/10.11114/jets.v3i4.730).
- *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.0000000000000133](https://doi.org/10.1097/JSM.0000000000000133).
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- *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>
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- 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)
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- 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.
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- Stelmach G.E., **Ketcham C.J.**, Dounskaia N.V. (2001, Aug) The influence of biomechanical properties in the control of multijoint drawing movements. International Graphonomics Society, Nijmegen, Netherlands.
- Ketcham C.J.**, Kennard C., Hodgson T.L., Stelmach G.E. (2001, Jun) Bradykinesia in Parkinson's disease: A kinematic analysis of limb and eye movements. *Journal of Neurological Sciences* 187(1), S180. *XVII World Congress of Neurology*, London UK.
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INVITED PRESENTATIONS (last 10 yrs)

- Ketcham C.J.**, Lowe, K. (2023, April 27). Elon LEADS Celebration, "Mentoring Matters," Elon University.
- Felten P., **Ketcham C.J.**, Weaver A.G. (2021, Sept 13) IUPUI Capstone Community of Practice, "Living Up to the Capstone Promise: *A Conversation*", IUPUI virtual workshop.
- Ketcham C.J.**, Kinzie J., Weaver A.G. (2021, July 19) Center for Engaged Learning. (2021, July 19). Pressures and Promises: Reflecting on Capstone Experiences., Elon University Retrieved from <https://youtu.be/i9I5fyI9hAo>.
- 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.

CONFERENCE ORGANIZATION

Neuroinclusive and Neuroaffirming Engaged Learning Experiences Think Tank (July 2023),

Center for Engaged Learning, Co-Organizer, Elon University, Elon, NC

Men's Mental Health Summit (November, 2021), Co-Organizer, Elon University, Elon, NC

Mental Health Summit X (February, 2020), Co-Organizer, Elon University, Elon, NC

Mental Health Summit (September, 2019), Co-Organizer, Elon University, Elon, NC

Capstone Experiences Research Seminar (June, 2018, 2019), **Center for Engaged Learning**, Co-Leader, Elon University, Elon, NC

6th Annual Elon BrainCARE Symposium (March, 2019), Co-Director/Presenter, Elon Univ, 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 Univ, 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

RESEARCH IN THE NEWS

Spectrum News (June 21, 2017) Elon University Participating in Concussion Management Study Funded by the NFL <http://www.twcnews.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.tdc.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 (selected)

FUNDED

**External Award; not listed - funded mentored undergraduate student summer experiences (SURE)*

*Knight Commission Award (Co-PI; Hall, Ketcham, Longmire-Avital, Walker, Weaver) *“Building a meaningful mentoring program with and for Black college athletes at a predominately White institution”*, \$24,665, 2022

Co-Principal Investigator (C.J. Ketcham, E.E. Hall, L. Mellinger) – Innovation and Wellness Grant, Elon University *“Tailoring the ABC Framework for Positive Mental Health for Male Students”* \$4500, 2021-22

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”* \$5k, 2019

*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

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 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”* \$15k, 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 (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
- 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
- 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

EXTERNAL GRANTS SUBMITTED / NOT FUNDED

- NIH (2019): 1 R15 NS116640-01 ‘Determinants of Concussion Recovery and Predictors of Subsequent Musculoskeletal Injuries’ PI: Hall, E, Ketcham C.J (Co-Investigator).
- 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-Invest)
- 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*,
- 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 AND GRADUATE COURSES

100/1000 level

Introduction to Exercise Science; First-year Transitions Course; Contemporary Issues in Wellness (Core Curriculum); Global Experience (Core Curriculum)

200/2000 level

Exercise Science Research Methods; NeuroMotor Control; Structural/Functional Kinesiology; Practicum; Growing Up Outside (co-taught honors course)

300/3000 level

Newton Meets Baryshnikov (interdisciplinary); Growing Up: Coordinating Complex Systems (Core Capstone); Motor Learning Theory; Applying to Graduate School in Arts and Sciences (co-taught with professional staff); Biomechanics; Biomechanics Lab; Motor Control and Special Populations; Physical Activity and Health Disparities

400/4000 level

Senior Seminar (Major Capstone); Neuroscience Seminar (Minor Capstone); Undergraduate Supervised Research; Internship; Honors Research; Lumen Research; Chronic and Acute Diseases; Analysis of Movement/Exercise Biomechanics; Motor Control and Aging

Graduate level

Disabling Conditions & Other Health Impairments: Motor Control; Neurophysiological Basis of Movement; Motor Behavior Seminar; Graduate Supervised Independent Research

UNDERGRADUATE RESEARCH STUDENT HONORS

*over 100 undergraduate students mentored or co-mentored through significant research projects
Honors below including grant writing*

Katie Lowe – 2022-23; 23-24 Rawls Undergraduate Research Scholar, Cavarretta Research Award, Provost Scholar

Abigail Thomson – 2021-22 Glen Raven Undergraduate Research Scholar

Peyton Carter – 2020-21 Rawls Undergraduate Research Scholar
 Emma McCabe – 2019-20 Glen Raven Undergraduate Research Scholar
 Emily Klevan – 2019-20 Rawls Undergraduate Research Scholar
 Hope Koene – 2018-19 Rawls Undergraduate Research Scholar; Honors Fellow; Phi Beta Kappa
 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
 Jeanine Grabowski – 2017 SEACSM nominee student paper award; Rawls UR Scholar 2016-17
 Briana O’Grady – 2016-17 Provost Scholar; 2017 SEACSM nominee student paper award; Rawls UR Scholar 2017-17
 Brighton Summers – Rawls Undergraduate Research Scholar 2016-17
 Sara Corning – Lumen Scholar 2016; Honors Fellow
 Nicole Dennion ’16 - National Association of Academic Advisors for Athletics (N4A) Wilma Rudolph Student-Athlete Achievement Award
 Kara Soler-Sala – 2nd place award for student paper/presentation at SEACSM 2015, Phi Beta Kappa
 Lauren Packard – Glen Raven Scholar 2014-15
 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; Honors Fellow/Kenan Scholar
 Molly Burgoyne – Lumen Scholar 2013; Selected for Hot Topics in Neuroscience media coverage SFN; Trey Halker 2014; Major of the Year in Exercise Science 2015, Phi Beta Kappa, Phi Kappa Phi
 Kelsey Evans – Glen Raven Scholar ‘12-13; SoCon Post Graduate Scholarship ‘13; Major of the Year ‘13
 Shannon Diehl – Trey Halker rising senior award 2012; Major of the Year 2013; Phi Kappa Phi
 Haley Hawkins – GSK women in science award, 2012; Honors Student 2014; Glen Raven Scholar ‘13
 Freda Thompson – Nominated for top 7 interview for Ward Family Learning in Action Award, Elon University; Major of the Year 2010
 Krysten Malcolm - 2011 SEACSM nominee student paper award; Honors Student 2012
 Bridget Kelly (IADMS 2010) – President’s Award for Poster Excellence (Highest Overall Score); RAWLS (Saecker) Scholar 2011
 Sarah Foushee – Phi Beta Kappa, Phi Kappa Phi
 Katie Volkerding – Rawls Undergraduate Research Scholar 2009
 Abby Dudensing (2007) – Kinesiology Undergraduate of the Year 2007; Read Scholar; Texas Rural Electric Woman’s Association Scholar
 Janet Staples (2002-2003) – Fulbright Scholar, Honor’s Thesis Co-Supervisor, ‘Adaptation to Sensorimotor Distortions in Older Adults’

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; Journal for the Study of Sports and Athletes in Education; Journal of Issues in Intercollegiate Athletics; Journal of Athletic Training; Frontiers special topics; Sport; (list not inclusive of all journals I have reviewed for)*

Think Tank Consortium AAC&U and Forum on Education Abroad, Inclusive Practices on Equity and Access Working Group, 2019 - present

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

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

Organizing/Program Committee, International Graphonomics Society Conference 2003; 2005

Organizing Committee, Motor Control Symposium, Tempe AZ, 2004

COLLEGE/UNIVERSITY

Elon University listed only (*significant leadership)

STEM Center Working Group, 2023 – present

WGSS Advisory Board, 2023 - present

Post-probationary retreat, CATL co-leader, 2022

Integrated Wellness Center Vision Taskforce, 2021 - 2023
 Search Committee for Executive Director of Core Curriculum, 2021
 *Co-Chair, DEI Faculty Professional Development and Evaluation Workgroup, 2021
 HHMI Faculty Forum and Writing Team, 2019 - 2021
 Accelerated Pathways Admissions/Interview Committee, 2019 - present
 Member, Elon Innovation Council, 2019 - 2022
 *Executive Member, Council on Wellness and Well-Being, 2019 - present
 *Co-Chair, Wellness and Well-Being Workgroup, Design Team Act-Belong-Commit, 2017 – 2019
 Lumen Advisory Committee, 2018 – 2022
 Pre-Health Pathways Committee, 2018 - 2019
 Long-Range Planning Committee, 2016 – 2020
 Graduate Council, 2016 – 2019 (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 – ongoing as needed (2019)
 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
 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)

COMMUNITY (selected)

Ketcham C.J. ‘Motor Maters’, *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, Jan 2015.
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

PROFESSIONAL AFFILIATIONS

Current and Ongoing

American College of Sports Medicine (ACSM) and South-East American College of Sports Medicine (SEACSM)
Society for Neuroscience
Society for Cognitive Neuroscience
International Society for the Scholarship of Teaching and Learning (ISSOTL)
North American Society for Psychology of Sport and Physical Activity (NASPPSA)
Neural Control of Movement Society
ACE Women's Network
Council on Undergraduate Research

PROFESSIONAL DEVELOPMENT (selected)

Think Tank Leader, Neuroinclusive and Neuroaffirming Engaged Learning Experiences, CEL, July 2023
Advancing Equity Requirement Summer Institute
Center for Advancement of Teaching and Learning Writing Retreat (2020, 21, 22, 23)
NC ACE Women's Network Conference: Women Blazing Trails
Elon University STEM Institute, Elon University
Racial Equity Institute – Ground Water Approach Training
CRGE CoP, Undergraduate Research in a Global Context
Co-Leader, Center for Engaged Learning Research Seminar on Capstone Experiences (2018-21)
Co-Leader, Center for Engaged Learning Capstone Experiences Planning Forum (2017)
Center for Engaged Learning Research Seminar on Mentoring Undergraduate Research (2014-17)
ADL Training
National Health Professions Conference, 2014, San Francisco, CA.
PKAL Summer Leadership Institute for STEM, 2013, Baca, Colorado
ADVANCE, N.C. AT&T State University
DEEP Diversity Training
Sustainability Faculty Scholar
Audited Dr. Asworth's (former commissioner of Higher Education, Texas) 'Entrepreneurship in the Public Service: The Uses of Discretion, Initiative and Creativity'
Grant Writing Workshop (semester long), VPR, Texas A&M University
Grant Writing Seminar, VPR, Texas A&M University
NSF CAREER award workshop, VPR, Texas A&M University
Preparing Future Faculty Fellow, Arizona State University