

Curriculum Vitae
CHRISTOPHER A. AIKEN
Department of Kinesiology and Dance
New Mexico State University
1600 Stewart St. AC 211
Las Cruces, NM, 88003
(575) 646-1769
Email: aiken@nmsu.edu

EXPERIENCE & EDUCATION

EDUCATION:

Ph.D. Kinesiology, Louisiana State University, Baton Rouge, LA, August 2015

Program: *Kinesiology*

Emphasis: *Motor Control and Learning*

Advisor: Arend W. A. Van Gemmert

M.S. Kinesiology, University of Tennessee, Knoxville, TN, August 2011

Program: *Kinesiology, Recreation, and Sport Studies*

Emphasis: *Sport Psychology and Motor Behavior*

Advisor: Jeffery T. Fairbrother

B.A. Psychology, University of Nevada Las Vegas, Las Vegas, NV, December 2007

Major: *Psychology*

Minor: *Criminal Justice*

TEACHING AND RESEARCH POSITIONS:

Assistant Professor, Kinesiology and Dance, New Mexico State University, Las Cruces, NM (2017-pres)

Assistant Professor, Integrative Physiology and Health Science, Alma College, Alma, MI (2015-2017)

Graduate Research Assistant, Louisiana State University Graduate School, Baton Rouge, LA (2015)

Graduate Teaching Assistant II, School of Kinesiology, Louisiana State University, Baton Rouge, LA (2011-2015)

Graduate Teaching Assistant, Department of Kinesiology, Recreation, and Sport Studies, University of Tennessee, Knoxville, TN (2010-2011)

RESEARCH

REFEREED PUBLICATIONS:

Fang, Q., **Aiken, C. A.** Fang, C., & Pan, Z. (in press). Effects of exergaming on physical and cognitive functions in individuals with Autism Spectrum Disorder (ASD): A systematic review. *Games for Health Journal*. Accepted September 2018.

Becker, K. A., Georges, A. F., & **Aiken, C. A.** (in press). Considering a holistic focus of attention as an alternative to an external focus. *Journal of Motor Learning and Development*. Accepted August, 2018.

Aiken, C. A., & Genter, A. M. (2018). The effects of blocked and random practice on the learning of three variations of the golf chip shot. *International Journal of Performance Analysis in Sport*, 18, 339-349.

Aiken, C. A., Pan, Z., & Van Gemmert, A. W. A. (2017). The effects of a two-step transfer on a visuomotor adaptation task. *Experimental Brain Research*, 235, 3459-3467.

Post, P. G., **Aiken, C. A.**, Laughlin, D. D., & Fairbrother, J. T. (2016). Self-control over combined video feedback and modeling facilitates motor learning. *Human Movement Science*, 47, 49-59.

Aiken, C. A., Pan, Z., & Van Gemmert, A. W. A. (2015). Limb dominance and its effects on the benefits of intralimb transfer of learning a visuo-motor aiming task. *Journal of Motor Behavior*, 47, 509-521.

Aiken, C. A., Fairbrother, J. T., & Post, P. G. (2012). The effects of self-controlled video feedback on the learning of the basketball set shot. *Frontiers in Psychology*, 3, 1-8.

MANUSCRIPTS UNDER REVIEW/REVISIONS:

Aiken, C. A., Post, P. G., Hout, M., & Fairbrother, J. T. The effects of learner control over the amount and preparation time of practice. *Journal of Sports Sciences*, submitted 12/18.

TEXTBOOK CHAPTERS:

Aiken, C. A., & Becker, K. A. (2019). Learning and skill acquisition. In Sackett, S. C. (Ed.), AASP's Certified Mental Performance Consultant (CMPC) Exam Study Guide. Champaign, IL: Human Kinetics. Submitted 3/19, under review

REFEREED CONFERENCE PAPERS:

Fang, Q., **Aiken, C. A.**, Van Gemmert, A. W. A., Xu, J., & Pan, Z. (in review). Ageing reduces performance asymmetry between the hands in force production and manual dexterity. To be presented at the International Graphonomics Society meeting in Cancun, Mexico.

Becker, K. A., **Aiken, C. A.**, Hung, C., & Van Gemmert, A. W. A. (in review). The effects of heat stress on the performance of a graphomotor choice-reaction time task. To be presented at the International Graphonomics Society meeting in Cancun, Mexico.

Van Gemmert, A. W. A., Montgomery, S. C., Abdalla, J. M., & **Aiken, C. A.** (2017). An exploratory study into on-line feedback and movement plane orientation. Presented at the International Graphonomics Society meeting in Gaeta, Italy.

Aiken, C. A., Odom, S., & Van Gemmert, A. W. A. (2015, June). *Stress and motor learning: Does the presentation of physical or cognitive stress influence motor skill acquisition?* Presented at the 2015 International Graphonomics Society, Pointe-a-Pitre, Guadeloupe.

MANUSCRIPTS IN PREPERATION:

Aiken, C. A., & Van Gemmert, A. W. A. Does effort compensate for work load increases when learning a novel motor task?

Aiken, C. A., Becker, K. A., & Van Gemmert, A. W. A. *The effects of physical stress in the form of heat and white noise on motor skill learning.*

Aiken, C. A., Becker, K. A., Post, P. G., & Aiken, C. A. *The effects of heat stress on a choice reaction time task from two indexes of difficulty.*

Aiken, C. A., Deel, N. M., & Post, P. G. *Autonomy and motor learning: Increased amounts of choice facilitates motor learning.*

RESEARCH IN DATA COLLECTION:

Becker, K. A., & **Aiken, C. A.** *A switch of attentional focus during performance execution facilitates motor learning of a complex task.*

REFEREED RESEARCH PRESENTATIONS:

Aiken, C. A., Becker, K. A., & Post, P. G. (2019). The effects of attentional focus shifting from preparation to execution on motor learning. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Baltimore, MD. *Journal of Sport & Exercise Psychology*, 41, S.

Aiken, C. A., Post, P. G., Hout, M. C., & Madrid, J. (2018). Learner-controlled amount of practice with fixed inter-trial interval benefits learning. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Denver, CO. *Journal of Sport & Exercise Psychology*, 40, S.

Post, P. G., **Aiken, C. A.,** Hout, M. C., & Madrid, J. (2018). Learner-controlled pace of practice in isolation does not yield the self-control effect. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Denver, CO. *Journal of Sport & Exercise Psychology*, 40, S.

Deel, N. M., Geddes, H., **Aiken, C. A.** (2017). Increased autonomy facilitates learning in a self-control protocol. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego, CA. *Journal of Sport & Exercise Psychology*, 39, S.

Genter, A. M. & **Aiken, C. A.** (2017). The effects of high and low contextual interference on the learning of three variations of a golf chipping task. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego, CA. *Journal of Sport & Exercise Psychology*, 39, S.

Luzar, B. W., Cameron, L. G., & **Aiken, C. A.** (2017). The effects of self-control on the learning of a graphical aiming task. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, San Diego, CA. *Journal of Sport & Exercise Psychology*, 39, S.

- Abdalla, J. M., Montgomery, S. C., **Aiken, C. A.**, & Van Gemmert, A. W. A. (2016, June). The effect of using a stylus in different planes and feedback configurations. Presented at the annual meeting for Society for Neuroscience. San Diego, CA.
- Aiken, C. A.**, Becker, K. A., Lee, A., Post, P. G., & Van Gemmert, A. W. A. (2016, June). *Performance on a choice-reaction time task is not affected by physical stress in the form of high ambient temperature*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Montreal, CN. *Journal of Sport & Exercise Psychology*, 38, S.
- Becker, K. A., **Aiken, C. A.**, Rodriguez, X., & Van Gemmert, A. W. A. (2016, June). *High ambient temperature levels do not influence motor learning*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Montreal, CN. *Journal of Sport & Exercise Psychology*, 38, S.
- Aiken, C. A.** & Van Gemmert, A. W. A. (2016, June). *The effects of two stress types on motor learning and practice specificity*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Montreal, CN. *Journal of Sport & Exercise Psychology*, 38, S.
- Aiken, C. A.**, Moss, T., & Van Gemmert, A. W. A. (2015, October). *Increases in cognitive effort diminishes the contextual interference effect*. Presented at the annual meeting for Society for Neuroscience. Chicago, IL.
- Aiken, C. A.**, & Van Gemmert, A. W. A. (2015, June). *Stress-related increases in effort does not facilitate motor learning*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Portland, OR. *Journal of Sport & Exercise Psychology*, 37, S.
- Fontenot, S., **Aiken, C. A.**, & Van Gemmert, A. W. A. (2015, April). *Effort induced by stress does not affect motor learning*. Presented at the annual meeting of the Life Course and Aging Conference. Baton Rouge, LA.
- Post, P. G., **Aiken, C. A.**, Fairbrother, J. T., & Laughlin, D. D. (2014, June). *Split-screen video feedback with an expert model facilitates motor learning*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Minneapolis, MN. *Journal of Sport & Exercise Psychology*, 36, S.
- Aiken, C. A.**, Pan, Z., & Van Gemmert, A. W. A. (2014, June). *The limit of effector independence: Transfer of a motor skill does not occur when a two-step transformation is required*. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Minneapolis, MN. *Journal of Sport & Exercise Psychology*, 36, S.
- Lanclos, K., **Aiken, C. A.**, Odom, S., & Van Gemmert, A. W. A. (2014, March). *Motor Performance is negatively affected by an increase in mental-load but learning may still occur*. Presented at the annual meeting of the Life Course and Aging Conference. Baton Rouge, LA.
- Aiken, C. A.**, Pan, Z., & Van Gemmert, A. W. A. (2013, June). *Transfer occurs within the same limb*

when a learned skill requires the use of different muscles to perform the task. Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, New Orleans, LA. *Journal of Sport & Exercise Psychology*, 35, S.

Aiken, C. A., Pan, Z., & Van Gemmert, A. W. A. (2013, February). *A learned aiming task transfers to different muscle groups within the dominant upper limb.* Presented at the annual meeting of the Life Course and Aging Conference. Baton Rouge, LA.

Aiken, C. A., Pan, Z., & Van Gemmert, A. W. A. (2012, October). *Control of a visuo-motor aiming task transfers within the dominant upper limb.* Presented at the annual meeting of the Society for Neuroscience. New Orleans, LA.

Aiken, C., Freeman, C., Singleton, A., & Wrisberg, C. (2012, October). *A Blessing in Disguise: A Qualitative Investigation of the Successful Return to Play Following Acute Surgical Intervention.* Presented at the annual meeting of the Association for Applied Sport Psychology, Atlanta, GA.

Aiken, C. A., Fairbrother, J. T., & Alami, A. (2012, June). *The effects of self-controlled video feedback on the basketball set shot.* Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Honolulu, HI. *Journal of Sport & Exercise Psychology*, 34, S.

Aiken, C. A., & Van Gemmert, A. W. A. (2012, January). *Learner-controlled feedback frequencies facilitates learning in younger adults, but not in older adults.* Presented at the annual meeting of the Life Course and Aging Conference. Baton Rouge, LA.

Aiken, C.A., Jensen, P.R., Meisterjahn, R.J., & Fairbrother, J.T. (2011, June). *The effects of explicit error estimation on motor skill learning in a self-controlled feedback condition.* Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Burlington, VT. *Journal of Sport & Exercise Psychology*, 33, S.

Fairbrother, J.T., Meisterjahn, R.J., Jensen, P.R., & **Aiken, C.A.** (2010, June). *The effects of self-controlled feedback and error estimation on motor skill learning.* Presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Tucson, AZ. *Journal of Sport & Exercise Psychology*, 32, S.

PROFESSIONAL STUDENT PRESENTATIONS:

Bianconi, B., & **Aiken, C. A.** (2017, March). Effects of reduced knowledge of results frequency on motor learning. Presented at Alma College Honor's Day. Alma, MI.

Brady, E., & **Aiken, C. A.** (2017, March). Neoprene sleeve versus a functional knee brace on the performance of female athletes post ACL reconstructive surgery. Presented at Alma College Honor's Day. Alma, MI.

Kendall, K., & **Aiken, C. A.** (2017, March). The effects of visual focus on free throw accuracy. Presented at Alma College Honor's Day. Alma, MI.

Urlick, K., & **Aiken, C. A.** (2017, March). Balance and neuromuscular control as predictor of anterior cruciate ligament injury. Presented at Alma College Honor's Day. Alma, MI.

Luzar, B. W., Cameron, L. G. & **Aiken, C. A.** (2017, February). The effects of self-controlled KR and

motivation on the learning of a graphical aiming task. Presented at the Michigan American College of Sport Medicine meeting. Gaylord, MI.

Deel, N. M., Geddes, H., & **Aiken, C. A.** (2017, February). Increased autonomy facilitates learning in a self-control protocol. Presented at the Michigan American College of Sport Medicine meeting. Gaylord, MI.

Genter, A. & **Aiken, C. A.** (2017, February). The effects of high and low contextual interference on the learning of three variations of a golf chipping task. Presented at the Michigan American College of Sport Medicine meeting. Gaylord, MI.

Ball, A. & **Aiken, C. A.** (2016, March). The effects of attentional focus on the acquisition of a novel handwriting task. Presented at Alma College Honor's Day. Alma, MI.

Korbel, S., Knight, D., **Aiken, C. A.** (2016, March). The physiological and psychological effects of various stretching regimens on functional performance testing of collegiate division III athletes. Presented at Alma College Honor's Day. Alma, MI.

Odom, S., **Aiken, C. A.**, & Van Gemmert, A. W. A. (2015, March). *Does stress always affect fine motor performance negatively?* Presented at LSU Discover. Baton Rouge, LA.

Odom, S., **Aiken, C. A.**, Lanclos, K., & Van Gemmert, A. W. A. (2014, March). *The effects of mental-load and auditory noise on the acquisition and learning of a motor task.* Presented at LSU Discover. Baton Rouge, LA.

GRANTS AND AWARDS

AWARDS:

2018 NMSU Athletics Department Guest Football Coach (Student Nominated)
 2018 College of Education Emerging Scholar Award
 2015 AKA Doctoral Scholar Award
 2015 Nominated for the NASPSPA Outstanding Student Paper
 2015 LSU Graduate School Dissertation fellowship
 2014 Recognized by the LSU Graduate School for excellence in mentoring undergraduate research
 2013 AKA Graduate Student Writing Award in Kinesiology

GRANTS AWARDED:

2018	NMSU CoEd Emerging Scholars
	Role: Applicant and PI
	Agency: College of Education
	Amount: \$10,000
	Online Course Improvement Program
	Role: Applicant
	Agency: New Mexico State University
	Amount: \$1,000
2017	Alma College Faculty Small Grant

Role: Applicant
 Agency: Alma College
 Amount: \$600

2016 Alma College Faculty Small Grant
 Role: Applicant
 Agency: Alma College
 Amount: \$600

Alma College Andison teaching grant
 Role: Applicant
 Agency: Alma College
 Amount: \$1500

2015 LSU Graduate School Dissertation Fellowship
 Role: Applicant
 Agency: Louisiana State University
 Mechanism: Fellowship
 Amount: \$12,000 plus tuition (\$20,758)

2014 *Travel to present research at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity*
 Role: Applicant
 Agency: Louisiana State University
 Mechanism: Graduate Student Travel Award
 Amount: \$300

2011 *Travel to present research at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity*
 Role: Applicant
 Agency: University of Tennessee
 Mechanism: Graduate Student Travel Award
 Amount: \$350

GRANTS NOT AWARDED:

2018 NM-INBRE (NIH P20GM103451)
 Role: PI
 Agency: NIH IDeA
 Amount: \$300,000

INVITED PRESENTATIONS

Practice? We talkin bout practice. The effects of practice manipulation on motor skill learning and transfer. New Mexico State University, Department of Psychology, 2018.

Practice? We talkin bout practice. The effects of practice manipulation on motor skill learning. New Mexico State University, Department of Biology, 2018.

From Theory to Application: Modified expectations for Undergraduate Research. Alma College, 2017

Practice Manipulations and Transfer of Learning. Western Kentucky University, 2015

Attention as a Limited Capacity and the implications for Stress and Motor Learning. Grand Valley State University, 2015

TEACHING & ADVISING

COURSES TAUGHT:

Assistant Professor, NMSU (2017-present)

SPM 342 Motor Learning

SPM 309 Neurophysiology and Human Function

Assistant Professor, Alma College (2015-2017)

IPH 225 Human Physiology I

IPH 310 Introduction to IPH Research Methods

IPH 345 Biomechanics I

IPH 356 Biomechanics II

IPH 338 Motor Control and Learning

IPH 342/PSY 342 Psychology of Sport and Physical Activity

IPH 480 Senior Seminar

IPH 280/380 Expert Performance and Sport (Course taught in Cabo San Lucas, Mexico)

Adjunct Instructor, Central Michigan University (2016 – 2017)

PES 401 Introduction to Motor Learning

Graduate Teaching Assistant II, School of Kinesiology, Louisiana State University (2011-2015)

KIN 3513 Introduction to Motor Learning

KIN 1125 Beginning Golf

Graduate Teaching Assistant, Physical Education Activity Program, Department of Kinesiology, Recreation, and Sport Studies, University of Tennessee (2009-2011)

PYED 206 Bowling

PYED 211 Golf

PYED 230 Physical Fitness: Swimming

LECTURER:

Graduate Teaching Assistant II, School of Kinesiology, Louisiana State University (2011-present)

KIN 4512 Motor Development

KIN 4571 Neuromotor Control

STUDENT RESEARCH ADVISED:

Koby Lanclos (2012 – 2014) *MD program LSU Shreveport

Marie Hebert (2013)

Sarah Odom (2013 – 2015) *PA program LSU Shreveport

Seth Fontenot (2014 – 2015)

Taylor Moss (2014 – 2015) *Occupational Therapy Program LSU Shreveport

Alexa Ball (2015 – 2016)

Thesis: The effect of attentional focus on a novel handwriting task

Sam Korbel (2015 – 2016) *DPT program at Drexel University

Thesis: The physiological and psychological effects of various stretching regimens on functional performance testing of collegiate Division III athletes

Laura Cameron (2016 – 2017) PRISM student

Project: The effects of self-controlled KR and motivation on the learning of a graphical aiming task

Ben Luzar (2016 – present) Alma Research Award *DPT program Duke University

Project: The effects of self-controlled KR and motivation on the learning of a graphical aiming task

Alec Genter (2016 – 2017) Venture Grant *MS program University of Tennessee

Thesis: The effects of high and low CI on the learning of three golf chip shots.

Nikki Deel (2015 – 2017)

Thesis: Increased autonomy facilitates learning in a self-control protocol.

Bianconi, B. (2016-2017) *DPT program Emory University

Thesis: Effects of reduced knowledge of results frequency on motor learning.

Brady, E. (2016-2017) *DPT program Emory University

Thesis: Neoprene sleeve versus a functional knee brace on the performance of female athletes post ACL reconstructive surgery.

Kendall, K. (2016-2017)

Thesis: The effects of visual focus on free throw accuracy.

Urick, K. (2016-2017) *DPT program Rosalind Franklin University

Thesis: Balance and neuromuscular control as predictor of anterior cruciate ligament injury risk.

CURRENT APPOINTMENTS/COMMITTEES/ORGANIZATIONS

Ad Hoc Reviewer

Frontiers in Psychology, Frontiers in Movement Science and Sport Psychology.

European Journal of Sport Science.

Journal of Motor Learning and Development

Journal of Psychology of Sport and Exercise

Journal of Clinical Sport Psychology

Journal of Imagery Research in Sport and Physical Activity

Human Movement Science

Perceptual and Motor Skills

Journal of Sports Sciences

International Journal of Sports Science and Coaching

President of the Delta Upsilon Chapter for Sigma Phi Omega (Academic and professional honor society for gerontology). 2012 – 2015.

2015 Region VII and State Science and Engineering Fair Judge.

Alma College committee work

Retention Committee (2016 – 2017)

Travel risk assessment committee (2016 – 2017)

Faculty and Advancement committee (2015 – 2017)

IRB chair (2016 – 2017)
IPHS Public Health faculty search (2015-2016)
IPHS Clinical Exercise Physiology faculty search (2015-2016)
IPHS Human Physiology faculty search (2016-2017)

NMSU committee work

College of Education budget committee (2017-present)
Faculty Advisory Committee on Technology (2017-present)
Kinesiology public relations committee (2017)
Faculty Senate (2018-present)
University Affairs (2018-present)
Kinesiology and Dance Biomechanics faculty search (2018-2019)
Kinesiology and Dance Athletic Training faculty search (2018-2019)
College of Education Web Designer search (2018-2019)
Kinesiology Club faculty mentor (2018-present)

PROFFESIONAL ASSOCIATIONS

North American Society for the Psychology of Sport and Physical Activity
Association for Applied Sport Psychology
Society for Neuroscience
Sigma Phi Omega: Academic and professional honor society for gerontology