

Robert R. Horn, Ph.D.

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A. EDUCATION

- 9/99 – 6/03 **John Moores University**, Liverpool, UK
Ph.D. in Motor Behavior
Supervisors: Prof. A.M. Williams, Dr. M.A. Scott, Prof. T.P. Reilly
Title: Visual Search and the Emergence of Coordination in Observational Learning
- 9/93 – 5/95 **University of West Chester**, West Chester, PA.
Master of Science Degree in Kinesiology
Thesis: *Estimating Time-to-contact in a Varied Human Approach*
- 9/89 – 6/92 **University of Liverpool**, Liverpool
Bachelor of Science Degree in Movement Science
Dissertation: *The Development of a Novel Method for the Assessment of Peripheral Vision in Rest and in Exercise.*

B. PROFESSIONAL EXPERIENCE

- 09/25 – present **Professor**, Montclair State University, Montclair, NJ.
- 07/08 – 8/25 **Associate Professor**, Montclair State University
Montclair, NJ
- 07/11 - 6/14 **Department Chairperson**, Department of Exercise Science & Physical
Education, Montclair State University, Montclair, NJ
- 07/11 - 06/15 **Exercise Science Program Coordinator** (off-load, 2011-2014)
- 09/03 - 06/08 **Assistant Professor**, Montclair State University,
Montclair, NJ.
- 08/02 - 07/03 **Lecturer**, University of Maryland, College Park, MD.
Taught undergraduate classes in Motor Control and
Learning, Motor Development, and Kinesiology in the Workplace.

- 9/00 – 08/02 **Research Assistant**, Liverpool John Moores University & The F.A.
Worked for the English Football Association (FA). Responsibilities included analysis of international and domestic soccer matches for publication in Insight; analysis of a World Cup qualifying game (Wales vs. Norway) and presentation to coaching staff of the Football Association of Wales; writing for the English Football Association web site (www.thefa.org).
- 9/99 – 6/00 **Lecturer in Exercise Physiology**, Exeter College, Exeter
Responsible for designing programs, teaching and grading for first and second year HND students.
- 9/98 – 5/99 **Physical Education Teacher**, St. Andrew Catholic Education Center, Newtown, PA, U.S.A. Designed program and taught 900 children aged 5-14 years; administered Presidential Fitness Tests.
- 8/95 – 8/98 **Senior Exercise Therapist/Physiologist**, United Therapy Center, Feasterville, PA, U.S.A.
Responsibilities included design and implementation of exercise programs for outpatient physiotherapy care, strength and range of motion testing and reporting.
- 9/93 – 5/95 **Graduate Teaching Assistant**, University of West Chester
Taught undergraduate activity classes including volleyball, tennis, badminton, and physical conditioning.

C. SCHOLARSHIP

Summary Metrics

Total citations	1328
h-index:	16
i10 index:	22
RG score:	468.7; 8,869 Reads

C.1. Peer-reviewed Papers & Book Chapters (*indicates Dr. Horn's graduate student)

Horn, R.R., *Paletta, S., Sandri Heidner, G., Bartel., L., *Gwon, D., Lewinski, W.J. & Murray, N.P (2025). Effects of neural motivational systems, impulsivity, & working memory on shoot/don't shoot performance in officers and civilians under normal and high cognitive load. *Ergonomics* 1-18.

- *Gwon, D., & **Horn, R.R. (in review)**. The effects of a secondary motor task in early and late movement preparation on cross education. *Human Movement Science*.
- Murray, N.P, Lewinski, W.J., Allen, C., Heidner, G.S., Lawton, J., Albin, M. & **Horn, R.R.** (2024). The eyes have it! Functional field of view differences between visual search behavior and body worn camera during a use of force response in active-duty police officers. *Police Practice and Research: An International Journal*, 1-8.
- Horn, R.R.**, Lewinski, W.J., Heidner, G.S., Lawton, J., Allen, C., Albin, M. W., & Murray, N.P. (2023). Assessing between-officer variability in responses to a live-acted deadly force encounter as a window to the effectiveness of training and experience. *Ergonomics*, 1-16.
- Murray, N. P., Lewinski, W., Sandri Heidner, G., Lawton, J., & **Horn, R.** (2023). Gaze Control and Tactical Decision-Making Under Stress in Active-Duty Police Officers During a Live Use-of-Force Response. *Journal of Motor Behavior*, 1-12.
- Horn, R.R.** & *Marchetto, J.D. (2020). Approximate target pre-cueing reduces programming quiet eye and movement preparation time: Evidence for parameter pre-programming? *Research Quarterly for Exercise and Sport*, 92 (4), 787-795.
- Donnelly, J.D., **Horn, R.R.** Young, M. (2016). The effects of the Yes You Can! curriculum on the sexual knowledge and intent of middle school students, *Journal of School Health*, 86(10):759-765.
- Gardin, F.A., Middlemas, D.A., Williams, J.L., Leigh, S., **Horn, R.R.** (2013). The effect of posterior tibialis muscle fatigue on navicular height. *International Journal of Athletic Therapy and Training*, 8 (6), 36-39
- Horn, R.R.**, *Okumura, M.S., Alexander, M.G., Gardin, F.A. & Sylvester, C.T. (2012). Quiet eye duration is responsive to variability of practice and to the axis of target changes. *Research Quarterly for Exercise and Sport*, 83, 204-11.
- Maslovat, D., Hayes, S.J., **Horn, R.** & Hodges, N.J. (2010). Motor learning through observation. In D. Elliot & M.A. Horn (Eds.). *Vision and Goal-Directed Movement: Neurobehavioural Perspectives* (pp. 315-340).
- Horn, R.R.**, Williams, A.M., Hodges, N.J., Hayes, S.J. & Scott, M.A. (2007). Demonstration as a rate enhancer to changes in coordination in early skill acquisition. *Journal of Sports Sciences*, 25, 599-614.
- Hayes, S.J., Hodges, N.J., Scott, M.A., **Horn, R.R.**, and Williams, A.M. (2007). The efficacy of point light demonstrations in teaching children an unfamiliar movement:

- effects of perceptual training and task constraints. *Journal of Sports Sciences*, 25, 559-575.
- Hodges, N.J., Hayes, S.J., Eaves, D., **Horn, R.R.** & Williams, A.M. (2006). End-point trajectory matching as a method for teaching kicking skills. *International Journal of Sport Psychology*, 37, 230-247.
- Hayes, S., Hodges, N.J., Scott, M.A., **Horn, R.R.** & Williams, A.M. (2006). Scaling a motor skill through observation and practice. *Journal of Motor Behavior*, 38 (5), 357-366.
- Hodges, N.J., Hayes, S.J., **Horn, R.R.**, & Williams, A.M. (2005). Changes in coordination, control and outcome as a result of extended practice with the non-dominant foot on a soccer skill. *Ergonomics*, 48, 1672-1685.
- Horn, R.R.**, Williams, A.M., Scott, M.A. & Hodges, N.J. (2005). Visual search and coordination changes in response to video and point-light demonstrations without KR. *Journal of Motor Behavior*, 37, 265-275.
- Hayes, S.J., **Horn, R.R.**, & Hodges, N.J., Scott, M.A., & Williams, A.M. (2005). The relative effects of demonstrations and outcome information in the teaching of novel motor skills. In T. Reilly, J. Cabri, & D. Araujo (Eds.) *Science & Football V* (pp.622-625). London: Taylor & Francis.
- Horn, R.R.**, Williams, A.M. (2004). Observational learning: is it time we took another look? In A.M. Williams, N.J. Hodges (Eds.), *Skill Acquisition in Sport: Research, Theory and Practice* (pp 175-206). London: Routledge.
- Scott, M.A., Williams, A.M. & **Horn, R.R.** (2003). The coordination of kicking techniques in children. In G. Savelsbergh, K. Davids, J. van der Kamp, & S. Bennett (Eds), *Development of Movement Coordination in Children: Applications in the Field of Ergonomics, Health Sciences and Sport* (pp. 241-250). London: Routledge.
- Horn, R.R.**, Williams, A.M. & Scott, M.A. (2002). Learning from demonstrations: the role of visual search during observational learning from video and point-light models. *Journal of Sports Sciences* 20, 253-269.
- Williams, A.M., **Horn, R.R.** & Hodges, N. J. (2002). Skill acquisition. In T. Reilly and A.M. Williams (Eds.), *Science and Soccer* (2nd ed., pp. 198-213). London: Routledge.
- Williams, J.G & **Horn, R.R.** (1995). Exercise intensity effects on peripheral perception of soccer player movement. *International Journal of Sports Vision*, 2 (1), 117-129.

C.2. Manuscripts in Development

Horn, R.R., *Leather, R., *Scott, J. (in revision with data added). Toward a validated test tactical defensive knowledge in soccer: From principles to practice.

Horn, R.R., Murray, N.P. & Lewinski, W. Restructuring police weapons training for specificity or practice, transfer, and accelerated expertise.

Horn, R.R., *Miller, L., *Paletta, S., Heidner, G., *Gwon, D., Bartel, L., Lewinski, W.J. & Murray, N.P. Comparison of visual attention in false positive shoot errors and correct responses in law enforcement officers.

Horn, R.R., Murray, N.P., Heidner, G., & Gwon, D. Quietly locked in time: A deep review of the potential neural networks and processes underlying quiet eye.

C.3. Professional Publications

C.3.1 Books

Horn, R.R. & Leather, R. (2012). *Developing the complete tactical player: Coaching soccer with game intelligence in mind*. World Class Coaching Publishers, Kansas City, KS.

C.3.2 Coaching Journal Articles

Horn, R.R. & Okumura, M. (2011). It's time to eliminate the relative age effect in American soccer. *NSCAA Soccer Journal*, 56 (2), 38-40.

Milligan, I., Borrie, A. & Horn, R.R. (2007). Technical analysis of Futebol de Salão and mini football. *Insight Live: The online F.A. Coaches Association Journal*.

Horn, R.R. & Williams, A.M. (2004). The Development of Football Skills from Ages 7 to Adulthood: The Role of the Coach as a Mediator on the Path to Skilled Performance. *Insight: The F.A. Coaches Association Journal*.

Horn, R.R. & Williams, A.M. (2004). Development of Football Skills from Ages 4 to 7 years: Constraints, Rate Limiters and the Role of the Coach. *Insight: The F.A. Coaches Association Journal*.

Williams, A.M. & Horn, R.R. (2003). Physical and technical demands of playing different positions. *Insight*, 6 (2), 24-28.

Horn, R.R. & Williams, A.M. (2003). Rate limiters on the development of skill in football. *Insight: The F.A. Coaches Association Journal*.

Horn, R.R., Williams, M., & Ensum, J. (2002). Attacking in Central Areas: A Preliminary Analysis of Attacking Play in the 2001/2002 F.A. Premiership Season. *Insight*, 5(3), 31-34.

Horn, R.R. & Williams, A.M. (2002). A look ahead to World Cup 2002: what do the last 40 years tell us? *Insight: The F.A. Coaches Association Journal* 5 (2), 26-29.

Horn, R.R. (2002). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 5 (3), 20-21.

Horn, R.R. (2002). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 5 (2), 21-22.

Horn, R.R. (2002). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 5 (1), 21-22.

Horn, R.R. (2001). World-wide review of science and football research: Report from the 10th World Congress of Sport Psychology. *Insight: The F.A. Coaches Association Journal* 4 (4).

Platt, D., Maxwell, A., Horn, R.R., Williams, A.M. & Reilly, T.P. (2001). Technical and physiological analysis of 3 v 3 and 5 v 5 football. *Insight: The F.A. Coaches Association Journal* 4 (4), 20-21.

Horn, R.R. (2001). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 4 (3), 21-22.

Horn, R.R. (2001). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 4 (2), 23-24.

Horn, R.R. (2001). World-wide review of science and football research. *Insight: The F.A. Coaches Association Journal* 4 (1), 31-32.

Horn, R.R., Williams, A.M. & Grant, A. (2000). Analysis of France in World Cup 1998 and Euro 2000. *Insight: The F.A. Coaches Association Journal*, 4 (1), 40-43.

Horn, R.R. & Williams, A.M. (2000). Introducing Football Skills to Young Children. *Insight: The F.A. Coaches Association Journal*, 3 (3), 26-28.

C.4. Published Conference Proceedings (refereed)

- Horn, R.R., Lewinski, W.J., Heidner, G. S., Lawton, J., Allen, C., Paletta, S., & Murray, N.P. (2023). Sources of variability in police officers' motor responses to a deadly use-of-force encounter. *Journal of Sport & Exercise Psychology*, 45, S32-S33.
- Gwon, D., & Horn, R.R. (2023). The effects of a secondary motor task in early and late movement preparation on cross education. *Journal of Sport & Exercise Psychology*, 45, S31-S31.
- Murray, N.P, Heidner, G.S., Lewisnski, W., Lawton, J., Allen, C., & Horn, R.R. (2022). Gaze control and tactical decision making under stress: use of force response in active-duty police officers. *Journal of Sport & Exercise Psychology* 44, S46-S46
- Gwon, D., Horvat, F. M., Horn, R. R., Phillips, D. A., & Matthews, E. L. (2022). Family history of hypertension and heart rate results from the variable height step test. *International Journal of Exercise Science: Conference Proceedings*, 9 (10), p71. (Regional Conference of the Mid-Atlantic Chapter of American College of Sports Medicine, Lancaster, PA, 2022).
- Horn, R.R., Marchetto, J.D., Murray, N.P., & Gwon, D. (2021). Quietly locked in time: A deep review of the potential neural networks and processes underlying quiet eye. *Journal of Sport & Exercise Psychology*, 43 s23.
- Horn, R.R., Leather, R.L., Scott, J., Marchetto, J.D. & Buckalew, B. (2019). An investigation of defensive tactical knowledge in soccer players and coaches of differing experience and quality. *Journal of Sport & Exercise Psychology*, 41, s24.
- Horn, R.R., Marchetto, J.D., & LaVacca, M. (2018). Quiet eye is not responsive to throwing darts of different weights even when the weight differences can be perceived. *Journal of Sport & Exercise Psychology*, 40, s58.
- Horn, R.R. & Marchetto, J.D. (2016). Effects of target pre-cueing on quiet eye & movement preparation time: Evidence for heuristic pre-programming? *Journal of Sport & Exercise Psychology*, 38, s69.
- Gardin, F.A., Middlemas, D.A., Williams, J.L., Gramegna, L.A., & Horn, R.R. (2014). Clinician level of association between live and video visual assessments of foot type. *Journal of Strength & Conditioning Research*.

- Okumura, M.S., **Horn, R.R.**, Fisher, M. Alexander, M.G.F., & Sylvester, C.T. (2011). Changes in target displacement and the effects on quiet eye duration. *Medicine & Science in Sport & Exercise*, 308-308.
- Horn, R.R.**, Okumura, M.S., Sylvester, C.T., Alexander, M.G.F, Gardin, F.A.. & Gray, R.S. (2010). Effects of contextual interference and the axis of target location changes on quiet eye duration in a dart throwing task. *Journal of Sport & Exercise Psychology*, 32, s86.
- Horn, R.R.**, & Capparelli, S.V. (2008). Reducing the scalability of visual knowledge of results to facilitate changes in coordination through demonstration. *Journal of Sport & Exercise Psychology*, 30, s91.
- Horn, R.R.**, Hodges, N.J., Williams, A.M. & Hayes, S.J. (2006). Kinematic specification of the perception of relative motion differences: Toward bandwidths of expectancy for the imitation of movement. *Journal of Sport & Exercise Psychology*, 28, s86-87.
- Horn, R.R.**, Williams, A.M., Hayes, S.J., Hodges, N.J. & Scott, M.A. (2005). Demonstration as a rate scaler to changes in coordination: The facilitative role of demonstration in early skill acquisition. *Journal of Sport & Exercise Psychology*, 27, s78.
- Hayes, S.J., Hodges, N.J., Scott, A.M., **Horn, R.R.** & Williams, A.M. (2005). Scaling a motor skill through observation and practice. *Journal of Sport & Exercise Psychology*, 27, s75.
- Horn, R.R.**, Hodges, N.J., Williams, A.M., & Hayes, S.J. (2004) Identifying critical information for learning in demonstration and instruction. *Journal of Sport and Exercise Psychology*, 26, 116.
- Horn, R.R.**, Williams, A.M. & Scott, M.A. Hayes, S.J., & Hodges, N.J. (2004). Demonstration as a rate scaler to changes in coordination and the impact of usable knowledge of results. *Research Quarterly for Exercise and Sport*, 75, A130.
- Williams, A.M., Hodges, N.J., **Horn, R.R.**, Janelle, C.M. & Tenenbaum, G. (2004). New methodologies in the psychology of sport and physical activity. *Journal of Sport and Exercise Psychology*, 26, 115.
- Hayes, S.J., **Horn, R.R.**, Hodges, N.J., Scott, M.A. and Williams, A.M. (2004) The relative effect of demonstrations and outcome information in the teaching of novel motor skills. *Journal of Sports Sciences*, 22, 567.
- Hayes, S.J., Hodges, N.J., Scott, M.A., **Horn, R.R.**, & Williams, A.M (2004). Relative effectiveness of video and point-light demonstrations in replicating movement form. *Research Quarterly for Exercise and Sport*, 75, A130.

Hodges, N.J., Hayes, S.J., Eaves, D., **Horn, R.R.**, & Williams, A.M. (2004) Teaching soccer skills through ball-trajectory matching strategies. *Journal of Sports Sciences*, 22, 567-568.

Hodges, N.J., Hayes, S.J., Eaves, D., **Horn, R.R.**, & Williams, A.M. (2004). Teaching soccer skills through ball-trajectory matching strategies, in T. Reilly (Ed.), *Science and Football V: The Proceedings of the 5th World Congress on Science and Football* (Routledge).

Horn, R.R., Williams, A.M. & Scott, M.A. (2002). Visual search during observational learning in the absence of visual and auditory feedback. *Journal of Sport and Exercise Psychology*, 24, p.S71.

Horn, R.R., Greenwood, J., Scott, M.A., Williams, A.M. & Hayes, S.J. (2002). Kinematic specification of dynamics in action. *Journal of Sport and Exercise Psychology*, 24, p.S70-71.

Horn, R.R., Williams, A.M. & Scott, M.A. (2001). Visual search, modelling, and practice during the acquisition of a soccer skill. In: A. Papaionnou, M. Goudas & Y. Theodorakis (Eds.) *Proceedings of the International Society of Sport Psychology 10th World Congress of Sport Psychology*, vol. 2, p. 277– 279.

C.5 Conference Presentations and Symposia

Horn, R.R., Paletta, S., Heidner, G., Lewinski, W.J., Gwon, D. & Murray, N.P. (2024). Effects of neural motivational system, impulsivity, and working memory on performance of a shoot/don't shoot task with and without high cognitive load. Paper presented at NASPSPA, New Orleans, 2024.

Heidner, G., Mileski, N., Duardo, J.R., Torres, L., Price, A., & **Horn, R.** (2024). Horizontal vestibular ocular reflex yields low cue fixation times during the vestibular ocular motor screening test. Paper presented at NASPSPA, New Orleans, 2024.

Horn, R., Lewinski, W., Heidner, G. S., Lawton, J., Allen, C., Paletta, S., & Murray, N.P. (2023). Sources of variability in police officers' motor responses to a deadly use-of-force encounter. Paper presented at NASPSPA, Toronto, 2023.

Gwon, D., & **Horn, R.** (2023). The effects of a secondary motor task in early and late movement preparation on cross education. Paper presented at NASPSPA, Toronto, 2023.

Lewinski, W., Murray, N.**Horn, R.R.** (2023). Officer perception, cognition and decision- making in a simulated OIS the relationship between training, eye scan,

performance, arousal and rest. Paper presented at the International Association of Chiefs of Police, Police Psychological Services, San Diego, 2023.

Horn, R.R., Lewinski, W.J., Sandri Heidner, G., Lawton, J., Allen, C. & Murray, N.P. (2022). Assessing between-officer variability in responses to a live-acted deadly force encounter as a window to the effectiveness of training and experience. Paper presented at Society for Police and Criminal Psychology Annual Conference, Quebec City, 2022.

Murray, N.P, Heidner, G.S., Lewinski, W., Lawton, J., Allen, C., & **Horn, R.R.** (2022). Gaze control and tactical decision making under stress: use of force response in active-duty police officers. Paper presented at NASPSPA, Hawaii, 2022.

Gwon, D., Horvat, F. M., **Horn, R. R.**, Phillips, D. A., & Matthews, E. L. (2022). Family history of hypertension and heart rate results from the variable height step test. Paper presented at the Regional Conference of the Mid-Atlantic Chapter of American College of Sports Medicine, Lancaster, PA, 2022.

Horn, R.R., Marchetto, J.D., Murray, N.P., & Gwon, D. (2021). Quietly locked in time: A deep review of the potential neural networks and processes underlying quiet eye. Paper presented at NASPSPA online conference, 2021).

Horn, R.R., Leather, R.L., Scott, J., Marchetto, J.D. & Buckalew, B. (2019). An investigation of defensive tactical knowledge in soccer players and coaches of differing experience and quality. Paper presented at NASPSPA, Baltimore, June 2019.

Horn, R.R., Marchetto, J.M., & LaVacca, M. (2018). Quiet eye is not responsive to throwing darts of different weights even when the differences can be perceived. Paper presented at NASPSPA, Denver, June 2018.

Horn, R.R., Scott, J.R., Leather, R.C., & Marchetto, J.D. (2017). Toward a Validated Test of Tactical Defensive Knowledge in Soccer: From Principles to Practice. Paper presented at NASPSPA, San Diego, June 2017.

Horn, R.R. & Marchetto, J.D. (2016). Effects of Target Pre-cueing on Quiet Eye & Movement Preparation Time: Evidence for Heuristic Pre-programming? Paper presented at NASPSPA, Montreal, June 2016.

Horn R.R., Donnelly J., Young, M. (2015). Distinguishing Between Early/Pre-teens Who Did and Did Not Report Experiencing Sexual Intercourse. American School Health Association, October, 2015. Orlando, FL.

Donnelly, J., **Horn R.R.**, Young, M. (2015). Effects of an Abstinence Education Program on Sexual Knowledge and Intent of Urban Middle Schoolers. American School

Health Association. October, 2015. Orlando, FL.

Young, M., Donnelly, J., **Horn, R.R.**, Godinez, I., & Elias, S. (2014). Future orientation and condom use: Results from a survey of sexual behavior among early adolescents. Annual American Academy of Health. Charleston, South Carolina, March 2014.

Gardin, F.A., Middlemas, D.A., Williams, J.L., Gramegna, L.A., **Horn, R.R.** (2014). Clinician level of association between live and video visual assessments of foot type. Presented at the National Strength and Conditioning Association National Conference, Las Vegas, NV, 2014.

Horn, R.R., Donnelly, J., Young, M., Godeniz, I., & Elias, S. (2014). Accounting for variation in sexual intent in a sample of young teens/preteens. Annual American Academy of Health. Charleston, South Carolina, March 2014.

Donnelly, J., Young, M., Denny, G., **Horn, R.**, Elias, S. (2013). Correlates of sexual intent in sample of young urban teens. American School health Association. Myrtle Beach, NC. October 2013.

Donnelly, J., Young, M., Denny, G., **Horn, R.R.** (2013). Participation in sexual intercourse in a sample of young urban teens. Presented at the Society for the Scientific Study of Sexuality. San Diego, CA. November, 2013.

Donnelly, J., Denny, G., **Horn, R.** (2013). Challenges, Strategies, and Solutions addressed in a state-wide evaluation title V-Abstinence Education Programs. Presented at the 2nd Annual teen Pregnancy Program, Baltimore, MD. 2013.

Okumura, M.S., Horn, R.R. Fisher, M. Alexander, M.G.F., & Sylvester, C.T. (2011). Effects of target displacement on quiet eye duration: A test of the location-suppression hypothesis. Paper presented at NASPSPA, Burlington, June 2011.

Horn, R.R., Okumura, M.S., Sylvester, C.T., Alexander, M.G.F, Gardin, F.A.. & Gray, R.S. (2010). Effects of contextual interference and the axis of target location changes on quiet eye duration in a dart throwing task. Paper presented at NASPSPA, Tucson, June 2010.

Horn, R.R. & Capparelli, S.V. (2008). Reducing the scalability of visual knowledge of results to facilitate changes in coordination through demonstration. Paper presented at NASPSPA, Niagara, June 2008.

Horn, R.R., Hodges, N.J., Williams, A.M. & Hayes, S.J. (2006). Kinematic specification of the perception of movement differences: Toward bandwidths of expectancy for the imitation of movement. Paper presented at NASPSPA, Denver, June 2006.

- Horn, R.R.**, Williams, A.M., Hayes, S.J., Hodges, N.J. & Scott, M.A. (2005). Demonstration as a rate scaler to changes in coordination: The facilitative role of demonstration in early skill acquisition. Paper presented at NASPSPA symposium, Clearwater, June 2005.
- Hayes, S.J., Hodges, N.J., Scott, A.M., **Horn, R.R.** & Williams, A.M. (2005). Scaling a motor skill through observation and practice. Paper presented at NASPSPA symposium, Clearwater, June 2005.
- Horn, R.R.**, Hodges, N.J., Williams, A.M., & Hayes, S.J. (2004) Identifying critical information for learning in demonstration and instruction. Paper presented at NASPSPA symposium, Vancouver, June 2004.
- Horn, R.R.**, Williams, A.M., Scott, M.A., Hayes, S.J., & Hodges, N.J. (2004). Demonstration as a rate scaler to changes in coordination and the impact of usable knowledge of results. Paper to be presented at AAHPERD symposium, New Orleans, March 2004.
- Hayes, S.J., Scott, M.A., Hodges, N.J., **Horn, R.R.**, & Williams, A.M. (2004). The relative effectiveness of video and point-light demonstrations in replicating movement form. Paper presented at AAHPERD, March 2004.
- Williams, A.M.**Horn, R.R.** (2004). Perceptual expertise in sport: Novel solutions to old problems. Paper presented at NASPSPA symposium, Vancouver, June 2004.
- Hayes, S.J., Scott, M.S., Hodges, N.J., **Horn, R.R.**, Smeeton, N., & Williams, A.M. (2003). The efficacy of point-light demonstrations in teaching children an unfamiliar movement: effects of perceptual training and task constraints. Paper presented at NASPSPA Conference, Savannah, 2003.
- Hodges, N.J., Hayes, S.J., **Horn, R.R.**, & Williams, A.M. (2003). Changes in coordination, control, and outcome during the acquisition of a soccer skill performed with the dominant foot. International Conference of Sport, Leisure, and Ergonomics, Cheshire, UK, 2003.
- Horn, R.R.**, Williams, A.M. & Scott, M.A. (2002). Visual search during observational learning in the absence of visual and auditory feedback. Paper presented at NASPSPA, Baltimore, 2002.
- Horn, R.R.**, Greenwood, J., Scott, M.A., Williams, A.M. & Hayes, S.J. (2002). Kinematic specification of dynamics in action. Paper presented at NASPSPA, Baltimore, 2002.
- Horn, R.R.**, Williams, A.M. & Scott, M.A. (2001). Visual search, modelling, and practice during the acquisition of a soccer skill. Paper presented at ISSP 10th World Congress of Sport Psychology, Skiathos, Greece, 2001.

Horn, R.R. & Williams, J.G. (1994). Paper presented at the ACSM mid-Atlantic Chapter Regional Conference. Ithaca, NY, 1994.

Horn, R.R. & Williams, J.G. (1996). Paper presented at the ACSM mid-Atlantic Chapter Regional Conference. Lancaster, PA, 1996.

D. EXTERNAL FUNDING

- 2024 **Integrative Police Training to Improve Transfer of Learning and Use of Force Outcomes**
DOJ/NIJ FY24 Research and Evaluation of Policing Practices
(O-NIJ-2024-172011)
\$2,286,945
Role: PI (Co-PIs: Nicholas Murray & Gustavo Heidner). Currently **in review**.
- 2024 **MRI Track 1: Acquisition of an Extended Reality-Based Driving Simulator for User-centered Interdisciplinary Research and Education at Montclair State University.**
NSF Award number CMMI-2407953. **Funded: \$533,798.00**,
Role: Senior Personnel (PI: Rui Li, Co-PIs: Stefan Robila, Jennifer Yang, Gustavo Heidner)
- 2014 **Project STAR (Supporting Teens and Adolescent Responsibility)**
Administration on Children, Youth and Families - Family and Youth Services Bureau: Competitive Abstinence Education Grant Program
Total Direct and Indirect Costs: \$731,975. (Not funded).
Role: Co-PI (PI: Dr. Joseph Donnelly)
- 2013 **Project STAR (Supporting Teens and Adolescent Responsibility)**
Administration on Children, Youth and Families - Family and Youth Services Bureau: Competitive Abstinence Education Grant Program
Total Direct and Indirect Costs: \$731,975. (Scored 92; not funded).
Role: Co-PI (PI: Dr. Joseph Donnelly)
- 2012–14 **Title V Abstinence Education Program (2011-2015)**
New Jersey Department of Health & Senior Services
Total Direct and Indirect Costs: **Funded \$337,000**
Role: Co-PI (PI: Dr. Joseph Donnelly)
- 2005 **The Development of a Real-time Biofeedback Intervention for Down Syndrome.**

NIH R21 grant application (PA-03-107). Role: PI
Amount requested: \$263,490 (not funded).

- 2004 **Attention to pertinent information for observational learning in children with Down Syndrome.** Application for the Charles J. Epstein Research Award - National Down Syndrome Association (commended but unfunded).

E. INTERNAL FUNDING

- 2016 Montclair State University Separately Budgeted Research Internal Award (\$1710)
- 2004 Montclair State University Summer Grant Development Stipend (\$4000)

F. TEACHING EXPERIENCE

Montclair State University

Undergraduate classes

Basic Motor Learning (2003-2024; over 100 sections)
Measurement and Evaluation in Health and Physical Education (2007–2019; 12 sections)
Research Methods and Data Interpretation (2020-2024; 9 sections)
Social Problems in Sport (2004-2007)

Graduate classes

Advanced Coaching Techniques* (2009, 2016, 2017, 2019, 2022, 2024)
Advanced Motor Learning (2003, 2005)
Biomechanics (2003, 2005)
Motor Behavior in Youth* (2020, 2022, 2024)
Motor Development (2005, 2007, 2009, 2011, 2013)
Neuromotor Basis of Movement* (2021, 2023)
Selected Topics in Exercise Science and Physical Education: Advanced Laboratory Techniques* (2017)
Internship in Sport & Exercise Science (2023)

University of Maryland, College Park

Undergraduate classes

Kinesiology in the Workplace* (2002, 2003)
Motor Learning & Control (2002, 2003)
Motor Development (2002, 2003)

* I developed the class

Graduate Student Research Supervision

- 2023 Skylar Paletta: *The Effect of Neural Motivational Systems, Impulsivity, & Working Memory on Behavioral Measures in the Shoot/Don't Shoot Task*
- 2022 Dan Gwon: *The effects of a secondary motor task in early and late movement preparation on cross education*
- 2017 Michael Davenport: *The effectiveness of NFL combine data at predicting the success for wide receivers in their first two seasons in the NFL.*
- 2016 Jon Marchetto: *Quiet eye is not responsive to throwing darts of different weights even when the differences can be perceived.*
- 2010 Michele Okumura: *The role of movement scaling on quiet eye duration during an aiming task.*
- 2008 Debbie Jones: *The relationship between demonstration and feedback in the learning of a novel task.*
- 2007 Christopher Fienthel: *Factors contributing to rotator cuff injury in high school varsity athletes*
- 2006 Stacy Dinner: *The effect of pre-set versus skill-based bandwidth feedback in golf putting retention.*
- 2005 Charles Silva: *Quiet eye training versus technical training in a short basketball free throw training program.*
- 2005 Anthony Papa: *The effect of knowledge of performance on the in-practice transfer and delayed retention of a soccer kick with the non-dominant leg*

TEACHING AWARDS

- 2018 *Professing Excellence Award for Meaningful Impact*
Center of Leadership Development
- 2018 *Excellence in Teaching Award*
National Society of Leadership & Success

ADVISEMENT

Undergraduate advisement - 141 current Exercise Science advisees.
Student teacher mentoring - mentored over 30 students
Exercise Science internship mentoring - mentored ~ 15 students

Comprehensive Exam Committee Member

2024 Taylor Kinney, Dept. of Kinesiology, East Carolina University

Doctoral Thesis Committee Member
2024- Taylor Kinney, Dept. of Kinesiology, East Carolina University

G. UNIVERSITY SERVICE

G.1. DEPARTMENT

Exercise Science & Physical Education **Department Chair** (2011- 2014)
Exercise Science **Program Coordinator** (2011 - 2015)
Coaching Minor **Program Coordinator** (2018 - present; currently 87 students)
Co-Director Visual Motor Behavior Laboratory (2022 - present)
Department Performance Assessment Committee (DPAC):
2008 - member
2009 - **chair**
2014 - **chair**
2015 - **chair**
2016 - **chair**
2019 - **chair**
2020 - **chair**
2023 - **chair**
2024 - **chair**
Department Faculty Range Adjustment Committee (2022)
Exercise Science Graduate Committee (2008 - 2011; 2014 - present)
Physical Education Graduate Committee (2004 - 2010)
Coaching & Sports Administration Graduate Committee (2014 - present)
Exercise Science Committee (2014 - present)
Adult Fitness Program Committee (2006 - 2011)
Teacher Education Committee (2003 - 2012)
NCATE Undergraduate and Graduate Accreditation committees (2004, 2005)
NCATE Undergraduate Accreditation Committee (2011 - 2012)
Panzer Student Association Faculty Leader (2004, 2005)
Faculty Search Committees:
2023/24 Jongho Moon
2021/22 Gustavo Sandri Heidner (**chair**)
2017/18 Kevin Carroll
2016/17 David Phillips (**chair**)
2014/15 Evan Matthews
2010/11 Steven Leigh
2006/07 Kim Bush

G.2. COLLEGE OF EDUCATION & HUMAN SERVICE; COLLEGE FOR COMMUNITY HEALTH

CEHS Research committee (2017-2023; **Chair**: 2019-2021)

CEHS Dean search committee (2011-12)
Faculty Scholarship Advisory Committee (2010 - 2012; **Chair 2010 - 2011**)
College Graduate Curriculum Committee (2007-2010, **Chair: 2009-2010**)
Teacher Education Policy Committee (2005-2006; 2011-12)
College Convocation Committee (2005)

G.3. UNIVERSITY

Advising Professional Development Committee (2021-2023)
University Research Committee (2019-2021)
Intercollegiate Athletic Council (2005 – 2006)

F. PROFESSIONAL SERVICE

F.1. NATIONAL CONFERENCE

2019-21 NASPSPA Motor Control Program Area Committee
2019-21 NASPSPA abstract reviewer
2019-21 NASPSPA conference moderator

F.2. ADHOC REVIEWER

Human Movement Science
International Journal of Sport & Exercise Psychology
Journal of Motor Behavior
Journal of Sport and Exercise Psychology
Journal of Sports Sciences
Perceptual and Motor Skills
Physical Education Review
Research Quarterly for Exercise and Sports

F.3. PROFESSIONAL PRESENTATIONS & DISSEMINATION

2024 Featured research Force Science News:
<https://www.forcescience.com/2024/03/forty-two-officers-forty-two-responses-one-scenario/>
2024 Presentation to the Passaic County, NJ Chiefs of Police
2022-23 Force Science Initial Certification Instructor – in person
-Taught motor performance section of initial certification course for police leadership and trainers -Sacramento, Nashville, Chicago, Phoenix, Boise, Fort Lauderdale, Dallas, Fairfax
2024 Force Science Initial Certification Instructor - online
2009 Presentation to the College of Education & Human Services - *How to show a*

pipeline for your research.

- 2008 Organized and presented at 1-day soccer coaching seminar, MSU.
- 2007 Presentation to the NJ Youth Soccer Association
- 2006 Presentation to the NJ Youth Soccer Association
- 2005 Presentation to the Physical Education teachers at Millburn School District, NJ

ADD MONTCLAIR KIMBERLY PRESENTATIONS

F.4. ACADEMIC AFFILIATIONS

AAHPERD/NASPE/SHAPE

New Jersey AHPERD

North American Society for the Psychology of Sport and Physical Activity

International Society of Sport Psychology

Society for Police and Criminal Psychology