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Education	Ph.D	Psychology	Kent State University	1998
	M.A.	Psychology	Kent State University	1995
	B.S.	Psychology	Denison University	1991
Professional Experience	Assistant Professor	The Ohio State University, Mansfield		2003-present
	Assistant Professor	Arizona State University West		2000-2003
	NIMH Postdoctoral Fellow	University of Pittsburgh		1998-2000
	Instructor	Chatham College		Fall, 1999
	Instructor	Kent State University		1995-1998
Honors and Awards	Marquis Who's Who in America			2004
	ASU West Scholarly, Research, and Creative Activities (SRCA) Grant			2002, 2003
	ASU West Instructional Development and Support Grant (IDSG)			2001
	NIMH Postdoctoral Fellowship			1998-2000
	Graduate/Teaching Assistantship, Kent State University			1993-1997
	Outstanding Thesis Award, Kent State University			1995
	American Psychological Association Travel Award, Kent State University			1994
Professional Associations	American Psychological Society (APS)			
	Midwest Psychological Association (MPA)			
Research Interests	Human visual motion perception			
	Human, animal, and robotic spatial navigation			
	Naïve beliefs about visual motion perception			
	Role of eye movements in tracking targets			
	Implicitly learned motor adaptation			
	Perceptual and cognitive neuroscience			

Teaching Experience

Sensation and Perception (10+)
 Cognitive Neuroscience (3)
 Statistics and Experimental Design (10+)
 Advanced Statistics (1)
 Introductory Psychology (20+)
 Cognitive Psychology (4)

Publications

Published Papers

- McBeath, M.K., Shaffer, D. M., & Kaiser, M. K. (1995). How baseball outfielders determine where to run to catch fly balls. *Science*, *268*, 569-573.
- McBeath, M. K., Shaffer, D. M., & Kaiser, M. K. (1995). Play ball! *Science*, *268*, 1683-1685.
- McBeath, M. K., Shaffer, D. M., & Kaiser, M. K. (1996). On catching fly balls. *Science*, *273*, 258-260.
- Shaffer, D. M., & McBeath, M. K. (2002). Baseball outfielders maintain a linear optical trajectory when tracking uncatchable fly balls. *Journal of Experimental Psychology: Human Perception and Performance*, *28*, 335-348.
- Shaffer, D. M., Krisky, C. M., Sweeney, J. A. (2003). Frequency and metrics of square wave jerks: Influences of task demand characteristics. *Investigative Ophthalmology and Visual Science*, *44*, 1082-1087.
- Shaffer, D. M., McBeath, M. K., **Roy, W. L.**,* & Krauchunas, S. M. (2003). A linear optical trajectory informs the fielder where to run to the side to catch fly balls. *Journal of Experimental Psychology: Human Perception and Performance*, *29*, 1244-1250.
- Shaffer, D. M., Krauchunas, S. M., **Eddy, M.**, & McBeath, M. K. (2004). How dogs navigate to catch Frisbees. *Psychological Science*, *15*, 437-441.
- Shaffer, D. M., & McBeath, M. K. (2005). Naïve beliefs in baseball: Systematic distortion in perceived time of apex for fly balls. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *31*, 1492-1501.
- Shaffer, D. M., McBeath, M. K., Krauchunas, S. M., & Sugar, T. (2008). Evidence for a generic interceptive strategy. *Perception & Psychophysics*, *70*, 145-157.
- Shaffer, D. M., ***Maynor, A. B.**, & ***Roy, W. L.** (2008). Visual perception of the lines on the road. *Perception & Psychophysics*, *70*, 1571-1580.

<i>In press</i>	Shaffer, D. M., *Maynor, A. B., *Briley, B. A., & *Adamrovich, C. A. (in press). Lack of conscious awareness of how we navigate to catch baseballs. In E. B. Hartonek (Eds.), <i>Experimental Research Trends in Psychology</i> . Hauppauge, NY: Nova Science Publishers.
Manuscripts	<i>*Student Co-author</i>
<i>Revision Resubmitted</i>	Shaffer, D. M., & Collura, M. (submitted). Evaluating the effectiveness of a personal response system in the classroom. <i>Teaching of Psychology</i> .
<i>Submitted</i>	Shaffer, D. M., *Maynor, A. B., *Madden B. K., *Utt A. L., & Adamrovich, C. N. (submitted). Naïve Beliefs in Football: What Comes Down Must First Look Like It's Going Up. <i>Journal of Experimental Psychology: Human Perception & Performance</i> . Shaffer, D. M. & Gregory, T.B. (submitted) Football players maintain angular constancy to chase and catch other football players. <i>The Open Sports Sciences Journal</i> . Collura, M., & Shaffer, D. M. (submitted). Using podcasts to complement lectures: Evaluating student reactions and learning.
<i>Revising for Resubmission</i>	Shaffer, D. M., Kmiec, J. A., Luna, B., Krisky, C.M., & Sweeney, J.A. (submitted). The effects of predictive extraretinal input on sustained visual tracking performance. <i>Perception</i> .
<i>Published Abstracts</i>	McBeath, M. K. & Shaffer, D. M. (1996, November). Baseball outfielders use the same optical strategy to pursue catchable and uncatchable fly balls. <i>Abstracts of the Psychonomics Society</i> , 1, 26. McBeath, M.K. & Shaffer, D.M. (1997). Naive Physics of Baseball Outfielders: Systematic distortion in perceived time of apex [Abstract]. <i>Abstracts of the Psychonomics Society</i> , 1(3), 193. McBeath, M.K., Sugar, T.G., & Shaffer, D.M. (2001). Comparison of active versus passive ball catching control algorithms using robotic simulations [Abstract]. <i>Journal of Vision</i> , 1(3), 193a, http://journalofvision.org/1/3/193 , doi: 10.1167/1.3.193.

Published
Abstracts

- Shaffer, D. M., McBeath, M. K., & Krauchunas, S. M. (2001). How dogs navigate to catch Frisbees [Abstract]. *Abstracts of the Psychonomics Society*, 6, 92.
- McBeath, M. K., Shaffer, D. M., **Morgan, S.***, & Sugar, T. (2002). Lack of conscious awareness of how we navigate to catch baseballs [Abstract]. *Abstracts of the Psychonomics Society*, 5, 84.
- McBeath, M. K., Shaffer, D. M., & Sugar, T. (2002). Catching baseball pop flies: Individual differences in aggressiveness and handedness [Abstract]. *Abstracts of the Psychonomics Society*, 7, 103.
- McBeath, M. K., Shaffer, D. M., & Sugar, T. (2004). Catching things that change direction: Frisbees and bouncing grounders [Abstract]. *Abstracts of the Cognitive Science Association for Interdisciplinary Learning*, 13.
- Shaffer, D. M. (2005). How athletes in American football pursue other players [Abstract]. *Proceedings of the 13th International Conference on Perception and Action*, 30.

Grants

Shaffer, D. M., & **Maynor, A. B.*** The Ohio State University's TELR Research on Research: Student-Faculty ePartnerships grant, Summer, 2006, \$5,000.

Shaffer, D. M. Investigation of the Universality of Perceptual Navigational Strategies. Special Research Assignment, The Ohio State University, Spring, 2006, 2-course release.

Shaffer, D. M. Navigational Strategies Used in American Football. Professional Development Grant, The Ohio State University, 2006, \$1,000.

Shaffer, D. M. How quarterbacks and receivers in American football achieve interception. OSU Social and Behavioral Sciences Small Grant, 2005, \$1,000.

**Grants
(continued)**

Shaffer, D. M. How American football players chase other players. OSU Social and Behavioral Sciences Small Grant, 2005, \$1,000.

Shaffer, D. M. Investigating the universality of optical navigational strategies, ASU West Scholarship, Research, and Creative Activities (SCRA) Grant Program, 2003, \$4,120.

Shaffer, D. M. Perception of lines on roadways, ASU West Scholarship, Research, and Creative Activities (SCRA) Grant Program, 2002, \$5,500.

Shaffer, D. M. Development of a course in Cognitive Neuroscience, Instructional Development and Support Grant (IDSG), 2001, \$5,000.

Professional Presentations

- Shaffer, D. M., & Hassebrock, F. H. (1992, August). Memory for script actions: Effects of context and context reinstatement. Poster Session presented at the American Psychological Association (APA), Washington, DC.
- McBeath, M. K., Shaffer, D. M., & Kaiser, M. K. (1994, April). Baseball outfielders catch fly balls by canceling optical curvature not acceleration. Paper presented at the Association for Research in Vision and Ophthalmology (ARVO), Sarasota, FL.
- Shaffer, D. M., McBeath, M. K., & Kaiser, M. K. (1994, August). The perceptual strategy used by baseball outfielders to catch fly balls. Paper presented at the Annual Convention of the American Psychological Association (APA), Los Angeles, CA.
- McBeath, M. K., & Shaffer, D. M. (1996, April). Baseball outfielders maintain a linear optical trajectory longer than optical acceleration cancellation when pursuing uncatchable fly balls. Paper presented at the Association for Research in Vision and Ophthalmology (ARVO). Sarasota, FL.
- McBeath, M. K. & Shaffer, D. M. (1996, November). Baseball outfielders use the same optical strategy to pursue catchable and uncatchable fly balls. Poster Session presented at the Psychonomic Society. Chicago, IL.
- McBeath, M.K. & Shaffer, D.M. (1997, November). Naive Physics of Baseball Outfielders: Systematic distortion in perceived time of apex. Paper presented at the 38th Annual Meeting of the Psychonomic Society, Philadelphia, PA.
- Shaffer, D. M., Krisky, C. M., Kmiec, J. A., Luna, B., & Sweeney, J. A. (1998, November). Dramatic effect of prediction on smooth pursuit eye movements. Paper presented at the Society for Neuroscience, Los Angeles, CA.
- McBeath, M. K., Sugar, T. G., & Shaffer, D. M. (2001, May). Comparison of active versus passive ball catching control algorithms using robotic simulations. Paper presented at the 1st annual meeting of the Vision Sciences Society, Sarasota, Florida.
- Shaffer, D. M., McBeath, M. K., & Krauchunas, S. M. (2001, November). How dogs navigate to catch Frisbees. Poster session presented at the 42nd Annual Meeting of the Psychonomic Society. Orlando, FL.
- McBeath, M. K., Shaffer, D. M., Morgan, S., & Sugar, T. (2002, April). Lack of conscious awareness of how we navigate to catch baseballs. Paper presented at the Consciousness Conference, Tucson, AZ.

Professional Presentations
(continued)

- Roy, W. L.***, & Shaffer, D. M. (2002, August). Observer's underestimations of the length of lines on roadways. Poster Session presented at the Psi Chi/APA National Convention, Chicago, Illinois.
- McBeath, M. K., Shaffer, D. M., & Sugar, T. (2002, November). Catching baseball pop flies: Individual differences in aggressiveness and handedness. Paper presented at the 43rd Annual Meeting of the Psychonomic Society. Kansas City.
- McBeath, M. K., Shaffer, D. M., & Sugar, T. (2004, July). Catching things that change direction: Frisbees and bouncing grounders. Paper presented at the 10th Annual Meeting of the Cognitive Science Association for Interdisciplinary Learning. Hood River, Oregon.
- Shaffer, D. M. (2004, September). Perceptual strategies used by baseball outfielders and dogs to catch fly balls and Frisbees. Invited Colloquium at the College of Wooster, Wooster, OH.
- Shaffer, D. M. (2004, October). A strategy to catch fly balls and Frisbees and misconceptions about their trajectories. Invited Colloquium at Denison University, Granville, OH.
- Shaffer, D. M. (2005, July). How Athletes in American Football Pursue Other Players. Paper presented at the 13th International Conference on Perception and Action. Monterey, CA.
- Shaffer, D. M. (2006, March 3). How football players in American football pursue other players. Invited Colloquium to be given at Wright State University, Department of Psychology. Dayton, OH.
- Yoder, A.,* Maynor, A.***, & Shaffer, D. M. (2006, May). Optical strategies used in football and misconceptions about their trajectories. Poster session presented at the Midwestern Psychological Association. Chicago, IL.
- Shaffer, D. M., & **Maynor, A.*** (2006, May). Naive Beliefs About the Optical Flight Paths of Footballs. Poster session presented at the 18th Annual American Psychological Society (APS) Conference. New York, NY.
- Maynor, A.,*** & Shaffer, D. M. (2006, May). Anisotropy of 3-D space: Estimating the length of lines on the road. Poster session presented at the 18th Annual American Psychological Society (APS) Conference. New York, NY.
- Maynor, A. B.***, **Adamrovich, C. A.***, **Bates, S.***, **McCartney, L.*** & Shaffer, D. M. (2007, May). Naïve Beliefs About the Optical Flight Paths of Footballs. Poster session presented at the Midwestern Psychological

**Professional
Presentations**
(Continued)

Association. Chicago, IL.

Maynor, A. B.*, Adamrovich, C. A.*, Briley, B. A.*, & Shaffer, D. M.
(2007, May). Predicting where fly balls land. Poster session presented at
the Midwestern Psychological Association. Chicago, IL.

**Service
Presentations**

Shaffer, D. M. (2001). How do outfielders determine where to run to catch fly balls?
Invited Talk given to the Elderhostle of Pheonix, Phoenix, AZ

Shaffer, D. M. (2004, February). Perceptual strategies used by baseball
outfielders and dogs to catch fly balls and Frisbees. Invited Honor's Lecture
at The Ohio State University Mansfield. Mansfield, OH.

Shaffer, D. M. (March, 2004). Perceptual strategies used by baseball
outfielders and dogs to catch fly balls and Frisbees. Invited Lecture given to
the Mansfield Hermit Club, Mansfield, OH.

Shaffer, D. M. (January, 2004). Perceptual strategies used by baseball
outfielders and dogs to catch fly balls and Frisbees. Invited Lecture given to
the Mansfield Rotary Club, Mansfield, OH.

Shaffer, D. M. (2005, February). A strategy to catch fly balls and Frisbees and
misconceptions about their trajectories. Invited Honor's Lecture at The Ohio
State University Mansfield, Mansfield, OH.

Shaffer, D. M. (2005, May). Radio advertisement for OSU-Mansfield.

**Committee
Work**

Chair, Faculty Compensation and Workload Committee

Ad hoc Grade Appeal Committee, Summer 2005

Faculty Services Committee

Faculty Advisory Group to Provost

Faculty Liaison to Preparing Future Faculty (PFF)

Research Consulting Center Advisory Committee

New Faculty Orientation

Junior Faculty Committee of Scholars

Faculty Advisor to Psychology Club

Cognitive Psychology Search Committee

Faculty Advisor in Masters of Arts in Interdisciplinary Sciences (MAIS) Program

Review and Professional Activities

Journals

Referee for *Journal of Experimental Psychology: Human Perception and Performance (JEP:HPP)* (5-10 times)

Referee for *International Journal of Psychophysiology*.

Books

Reviewer for R. Gray's *Vision Perception and Action in Baseball* to appear in Volume 5 of the *Reviews of Human Factors and Ergonomics*.

Reviewer for Corts, D., Krause, M., & Siciliani, J.'s *Introduction to Psychological Science*.

Reviewer for G. Gigerenzer's *Gut Feelings: The Intelligence of the Unconscious*.

Reviewer for D. Myers's *Introductory Psychology*.

Reviewer for Eagleman's *Cognitive Neuroscience* (textbook proposal).

Reviewer for K. M. Galotti's *Cognitive Psychology In and Out of the Laboratory*, (4th Ed.).

Media Appearances

Science News Online, June 26, 2004

Wall Street Journal, April, 2004

National Public Radio, The Todd Mundt Show, January 24, 2003

Saturday Night Live Weekend Update, January 18, 2003

International Herald Tribune, January 9, 2003

New York Times, January 7, 2003

New York Times, April 28, 1995

CBS This Morning, May, 1995

USA Today, April 27, 1995

Discover Magazine, September, 1995

Washington Post, May 8, 1995

Los Angeles Times, April 28, 1995