

**Dennis M. Shaffer**The Ohio State University,  
MansfieldDepartment of Psychology  
352 Ovalwood Hall  
1680 University Drive  
Mansfield, OH 44906

Voice: (419) 755-4274

FAX: (419) 755-4367

e-mail: [shaffer.247@osu.edu](mailto:shaffer.247@osu.edu)<http://www.mansfield.osu.edu/~dshaffer>

<b>Education</b>	Ph.D	Psychology	Kent State University	1998
	M.A.	Psychology	Kent State University	1995
	B.S.	Psychology	Denison University	1991
<b>Professional Experience</b>	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
<b>Honors and Awards</b>	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
<b>Professional Associations</b>	American Psychological Society (APS)			
	Midwest Psychological Association (MPA)			
<b>Research Interests</b>	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 (2)  
 Statistics and Experimental Design (10+)  
 Advanced Statistics (1)  
 Introductory Psychology (15+)  
 Cognitive Psychology (3)

**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*, 256-260.
- Shaffer, D. M., & McBeath, M. K. (2002). Baseball players 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 LOT is required 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 determine where to run 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. (accepted). Evidence for a Generic Interceptive Strategy. *Perception & Psychophysics*.
- Shaffer, D. M., **Maynor, A. B.**\*, & **Roy, W. L.**\* (submitted). Perceived Size of Lines on the Road Determined by Visual Angle. *Perception & Psychophysics*.

*Accepted**Under Review*

\*Student Co-author

**Manuscripts***Revising for  
Resubmission*

Shaffer, D. M., **Maynor, A. B.\***, & **Yoder, A.\*** Naïve Beliefs in Football: What Comes Down Must First Look Like It's Going Up

Shaffer, D. M., & **Roy, W. L.\*** A Representation of Visual Angle Determines Perceived Size of Lines on the Road.

Shaffer, D. M., Kmiec, J. A., Luna, B., Krisky, C.M., & Sweeney, J.A. The effects of predictive extraretinal input on sustained visual tracking performance.

*In preparation*

Shaffer, D. M. Football players maintain angular constancy to chase and catch other football players.

**Maynor, A. B.\***, Shaffer, D. M., **Adamrovich, C. A.\***, & **Briley, B. A.\*** Naïve perception when extrapolating motion of a fly ball.

Shaffer, D. M., **Maynor, A.\***, Sugar, T., & **Dolgov, I.\*** Strategies used by quarterbacks and receivers in American football to intercept receivers and footballs.

*Published  
Abstracts*

McBeath, M. K. & Shaffer, D. M. (1996, November). Baseball outfielders use the same optical strategy to pursue catchable and uncachable fly balls. *Abstracts of the Psychonomics Society*, 1, 26.

McBeath, M.K. & Shaffer, D.M. (1997). Naive Physics of Baseball Outfielders: Systematic distortion in perceived time of apex [Abstract]. *Abstracts of the Psychonomics Society*, 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]. *Journal of Vision*, 1(3), 193a, <http://journalofvision.org/1/3/193>, doi: 10.1167/1.3.193.

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.

**Roy, W. L.\***, & Shaffer, D. M. (2002). Observer's underestimations of the length of lines on roadways. Poster Session presented at the Psi Chi/APA National Convention, Chicago, Illinois.

Published  
Abstracts

- 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 13<sup>th</sup> International Conference on Perception and Action*, 30.
- Shaffer, D.M., & Yoder, A. (2006). Optical strategies used in football and misconceptions about their trajectories [Abstract]. *Proceedings of the 78<sup>th</sup> Annual Meeting of the Midwestern Psychological Association*, 88.
- Shaffer, D. M., & Maynor, A. B. (2006). Naïve beliefs about the flight paths of footballs [Abstract]. *Proceedings of the Association for Psychological Science*, 33.
- Maynor, A. B., & Shaffer, D. M. (2006). Using retinal size to estimate the length of lines on the road [Abstract]. *Proceedings of the Association for Psychological Science*, 35.

## 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.
- 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.

**Grants  
(continued)**

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 1<sup>st</sup> annual meeting of the Vision Sciences Society, Sarasota, Florida.

**Professional Presentations**  
(Continued)

- Shaffer, D. M., McBeath, M. K., & Krauchunas, S. M. (2001, November). How dogs navigate to catch Frisbees. Poster session presented at the 42<sup>nd</sup> 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.
- 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 43<sup>rd</sup> 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 10<sup>th</sup> 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 13<sup>th</sup> 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 18<sup>th</sup> Annual American Psychological Society (APS) Conference. New York, NY.

**Professional  
Presentations**  
(Continued)

**Maynor, A.,\*** & Shaffer, D. M. (2006, May). Anisotropy of 3-D space: Estimating the length of lines on the road. Poster session submitted to the 18<sup>th</sup> Annual American Psychological Society (APS) Conference. New York, NY.

**Maynor, A. B.\*, Adamrovich, C. A.\*, Bates, S.\*, McCartney, L.\* & Shaffer, D. M.** Naïve Beliefs About the Optical Flight Paths of Footballs. Poster session submitted for presentation at the Midwestern Psychological Association. Chicago, IL.

**Maynor, A. B.\*, Adamrovich, C. A.\*, Briley, B. A.\*, & Shaffer, D. M.** (submitted). Predicting where fly balls land. Poster session submitted for presentation 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

<b>Committee Work (continued)</b>	Faculty Advisor to Psychology Club Cognitive Psychology Search Committee Faculty Advisor in Masters of Arts in Interdisciplinary Sciences (MAIS) Program
<b>Review and Professional Activities</b>	Referee for <i>Journal of Experimental Psychology: Human Perception and Performance (JEP:HPP)</i> (5-10 times)  Reviewer for K. M. Galotti's <i>Cognitive Psychology In and Out of the Laboratory</i> , (4 <sup>th</sup> Ed.).
<b>Media Appearances</b>	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