

## CURRICULUM VITAE

Jeffrey Miles Kinsella-Shaw

### Personal Data:

Residence: 31 Warrenville Road  
Mansfield Center, CT  
06250  
(860) 450-1173

Birth date: January 11, 1958

Married with two children  
Wife is employed  
as a primary therapist at a private mental hospital

### Current Position:

2002-Present	University of Connecticut Dept. Of Physical Therapy	Assistant Professor
2002-Present	University of Connecticut Center for the Ecological Study Of Perception & Action Dept. of Psychology & Collaboratory for Rehabilitation Research, Dept. of Physical Therapy	Research Fellow

### Education:

8/94 – 5/97	University of Connecticut Storrs, CT	B.S. Physical Therapy
9/91 – 6/94	Haskins Laboratories New Haven, CT	NSF Post Doctoral Fellow in Motor Control and Movement Dynamics
9/84 - 8/91:	University of Connecticut Storrs, CT	Ph.D. in Experimental Psychology
9/78 - 5/82:	University of Connecticut Storrs, CT	B.A. in English

Relevant Work Experience:

7/97 – Present	Windham Memorial Community Hospital	Staff Therapist
9/88 - 8/91	Haskins Laboratories New Haven, CT	Research Assistant in Motor Control and Movement Dynamics

Courses Taught (dates available upon request):

Introductory Psychology, Laboratory Methods & Experimental Design, Sensation and Perception, Special Topics in Cognition, History and Systems of Psychology, Neuroanatomy and Physiology of Normal Movement, and the Pain Management via electrical stimulation unit of the Modalities course, Principles of Neuromuscular Rehabilitation

Membership in Professional Societies:

1985 - present	International Society for Ecological Psychology
1989 - present	American Psychological Association
2004 - present	American Physical Therapy Association, Neurology Section
2005 - present	Society for Motor Control

**Publications:**

Shaw, R. & Kinsella-Shaw, J. M. (1988). Ecological Mechanics: A physical geometry for intentional constraints. *Human Movement Science*, 7, 155-200.

Carello, C. & Kinsella-Shaw, J. M. (1988). Static depiction of lifted weight. *PAW Review: A Technical Report of the Perceiving-Acting Workshop in Ecological Psychology*, 4, No. 1, 19-23.

Kinsella-Shaw, J. M., & Shaw, B. (1989) Perception of slant for the locomotion of inclined ramps. *PAW Review: A Technical Report of the Perceiving-Acting Workshop in Ecological Psychology*, 5, No. 1, 11- 17.

Shaw, R. & Kinsella-Shaw, J. M. (1989). Ecological Mechanics: A physical geometry for intentional constraints (part II). In P. Kugler (Ed.) *Self-organization in biological workspaces*. Heidelberg, Germany: Springer-Verlag.

Shaw, R., Kugler, P., Kinsella-Shaw, J. M. (1990). Reciprocities of intentional systems. R. Warren & A. Wertheim (Eds.). *Control of self-motion*. Hillsdale NJ: Lawrence Erlbaum & Associates.

Kugler, P., Shaw, R., Vincente, K., & Kinsella-Shaw, J. (1990). Inquiry into intentional systems I: Issues in ecological physics. *Psychological Research*, 52, No. 2/3, 98-121.

Kugler, P., Shaw, R., Vincente, K., & Kinsella-Shaw, J. (1991). The role of attractors in the self-organization of intentional systems. R.R. Hoffman & D. S. Palermo (Eds.). *Cognition and the symbolic processes, volume 3 : Applied ecological perspectives*. Hillsdale NJ: Lawrence Erlbaum & Associates.

Saltzman, E., Kay, B., Rubin, P.E., & Kinsella-Shaw, J. (1991) Dynamics of intergestural timing. Paper presented at the conference *Current Phonetic Research Paradigms: Implications for Speech Motor Control*, Stockholm.

Kinsella-Shaw, J. M., & Turvey, M. T. (1992) Haptic perception of object distance in a single strand vibratory web. *Perception & Psychophysics*, 52, No. 6, 625-638.

Kinsella-Shaw, J. M., Shaw, B., & Turvey, M. T. (1992) Perceiving "walk-on-able" slopes. *Ecological Psychology*, 4, No.4, 223-239.

Pagano, C., Kinsella-Shaw, J. M., Cassidy, P., & Turvey, M. T. (1994) Role of the inertia tensor in haptically perceiving where an object is grasped. *Journal of Experimental Psychology: Human Perception and Performance*, Vol. 20, 276-285.

Shaw, R.E., Kadar, E., & Kinsella-Shaw, J. M. (1995). Modelling systems with intentional dynamics: A lesson from quantum mechanics. In K. Pribram (Ed.) *Appalachia II: Origins of self-organization*. The Report of the Second Annual Appalachian Conference on Neurodynamics. Hillsdale NJ: Lawrence Erlbaum & Associates, 53-101.

Shaw, R. & Kinsella-Shaw, J. (1988). Ecological Mechanics: A Physical Geometry for Intentional Constraints, *Human. Movement Science.*, 7, 155.

Kugler, P. Shaw, R., Vicente, K., & Kinsella-Shaw, J. (1990). Inquiry into intentional systems I: Issues in ecological physics. *Psychological Research*, 52, No. 2/3, 98-121.

Whalen, D.H. and J. M. Kinsella-Shaw (1997) Exploring the relationship of breath intake and utterance duration. *Phonetica*, 54, 138-152.

Saltzman, E., Lofquist, A., Kay, B., Kinsella-Shaw, J., & Rubin, P. (1998) Dynamics of intergestural timing: A perturbation study of lip-larynx coordination. *Experimental Brain Research*, 123, 412-424.

Kinsella-Shaw, J., Harrison, S., & Colon-Semenza, C., (2005). The availability of optical structure influences postural control differently for young and older adults. In Van Sant, N. Byl, & L. Riolo (Eds.) *Linking Movement Science and Intervention*. Proceedings of the III Step Conference of the Neurological and Pediatric Sections of the American Physical Therapy Association.

Carello, C., Kinsella-Shaw, J., & Amazeen, E. (2005). Peripheral Neuropathy and Length Perception in Dynamic Touch. In H. Heft & K. Marsh (Eds.) *Studies in Perception and Action VIII*. Mahwah NJ: Lawrence Erlbaum & Associates, 91-94.

Harrison, S., Lopresti-Goodman, S., Isenhower, R., Hajnal, A. & Kinsella-Shaw, J. (2005). Perceived Heaviness with Variation in Rotational Inertia or Static Moment. In H. Heft & K. Marsh (Eds.) *Studies in Perception and Action VIII*. Mahwah NJ: Lawrence Erlbaum & Associates, 103-106.

Kinsella-Shaw, J., Harrison, S., Colon-Semenza, C., Turvey, M. (2006). Effects of Visual Environment on Quiet Standing by Young and Old Adults. *Journal of Motor Behavior*, Vol. 38, No 4, 251-264.

Carello, C., Kinsella-Shaw, J., Amazeen, E., and Turvey, M. T. (2006). Peripheral Neuropathy and Object Length Perception by Effortful (Dynamic) Touch: A Case Study. *Neuroscience Letters*, 405, 159-163.

Hajnal, A., Fonseca, S., Harrison, S., Kinsella-Shaw, J., and Carello, C. (In Press). Comparison of Dynamic (Effortful) Touch by Hand and Foot. *Journal of Motor Behavior*.

Shaw, R., and Kinsella-Shaw, J. (In Press). Intentional Dynamics: A Method for the Study of Systems that Exhibit Goal-Directed Behaviors. *Journal of Ecological Psychology (Japanese Language Edition)*. The same paper has been accepted for publication in *Ecological Psychology (English Language Edition)*, which has a separate editorial board) with revisions and approximately 4 additional pages of new content.

Shaw, R. and Kinsella-Shaw, J. (In Press). The Survival Value of Informed Awareness. *Journal of Consciousness Studies*.

**Under Review:**

Hajnal, A., Fonseca, S., Kinsella-Shaw, J., Silva, P., Carello, C., and Turvey, M.T. (Submitted *Neuroscience Letters*) How Does Selective Dynamical (Effortful) Touch by Foot Compare to that by Hand?.

### **Talks & Poster Presentations:**

The role of feedforward information in the perceptual control of action. The International Society for Ecological Psychology, Trinity College, Hartford CT, October 19, 1985.

Rules for the perceptual control of action. Symposium: Goal-directed behavior II. Fourth International Conference on Event Perception and Action, Trieste, Italy, August 24-28, 1987.

An Ecometric Analysis of Goal-directed Behavior  
Robert Shaw and Jeffrey Kinsella-Shaw. Fourth International Conference on Event Perception and Action, Trieste, Italy, August 24-28, 1987.

Is Goal-directed Behavior Rule or Law Governed?  
Jeffrey Kinsella-Shaw and Robert Shaw. Fourth International Conference on Event Perception and Action, Trieste, Italy, August 24-28, 1987.

Choice-point geometry for intentional dynamics. The Fifth International Conference on Event Perception and Action. Oxford, Ohio, Summer 1989 Also three posters:

Choice-point Geometry of the Perceiving-acting Cycle I: Theory. Jeffrey Kinsella-Shaw, Robert Shaw, & Nam-Gyoon Kim.

Choice-point Geometry of the Perceiving-acting Cycle II: Applications. Nam-Gyoon Kim, Jeffrey Kinsella-Shaw, & Robert Shaw.

Choice-point Geometry of the Perceiving-acting Cycle III: Examples. Robert Shaw, Jeffrey Kinsella-Shaw, & Nam-Gyoon Kim.

Eco-machines and connection machines. The Workshop on Methods for Studying the Perceiving-acting Cycle, Center for Interdisciplinary Research, University of Bielefeld, Germany, November, 1989. (Speaker session 1. Discussant session 2.)

Intentional dynamics. International Conference on the Mind and Brain project. The Center for Interdisciplinary Studies (ZIF), University of Bielefeld, Bielefeld, Germany. (Opening speaker with Robert Shaw. Discussant session 1), November, 1989.

Special requirements for modeling speech gestures as goal-directed acts: The perspective from dynamics. Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT. February 1991.

Read/Write Dynamics: Preliminaries to a theory of informationally coordinated systems. The International Society for Ecological Psychology. Seton Hall University, NJ. May, 1992.

Intentional constraints on perception and action. International Conference on Intentionality and Animation. University of Pennsylvania. March 11-13, 1993.

Perceiving location of grip wielding. A poster (co-authored with C. Pagano, P. E. Cassidy, & M. T. Turvey). The International Society for Ecological Psychology, Franklin & Marshall College, Lancaster, PA, May, 1993.

Biological foundations for an ecological ontology of sign and symbol functions. (Co-author: Robert E. Shaw). Seventh International Conference on Event Perception and Action, Vancouver, British Columbia, Canada, August 8-12, 1993.

An ecological grounding for sign and symbol functions. (Co-author: Robert E. Shaw). Seventh International Conference on Event Perception and Action, Vancouver, British Columbia, Canada, August 8-12, 1993.

Co-organizer (with Carol A. Fowler) of symposium titled *Ecological Perspectives on Language*. Seventh International Conference on Event Perception and Action, Vancouver, British Columbia, Canada, August 8-12, 1993.

Sheffert, S., Fowler, C.A., & Kinsella-Shaw, J. M. The effects of talker variability on spoken word recognition: An audio-visual study. Poster presentation at the Seventh International Conference on Event Perception and Action, Vancouver, British Columbia, Canada, August 8-12, 1993.

Shaw, R., Kadar, E., & Kinsella-Shaw, J. Modeling systems with intentional dynamics: A lesson from quantum mechanics. *Appalacia II: Origins of self-organization*. The Second Annual Appalachian Conference on Neurodynamics. Radford University, Radford, VA. October 12-14, 1993.

“The Intentional Dynamics of a Bi-manual Stick-Slip Friction Task.” Presented at the 12<sup>th</sup> International Conference on Perception and Action, Sidney, Australia, July 14<sup>th</sup>, 2003. (Co-author with Robert E. Shaw, Ph.D. & Steven J. Harrison, B.S.)

“On the Preferred Inter-Stride Interval During Rhythmic Unipedal Stepping in Younger, Middle-aged, and Older Adults.” Presented at the Annual Conference and Exposition of the American Physical Therapy Association, Chicago, Illinois, July 2, 2004. (Co-author with Timothy A. Hanke & David T. Tiberio.)

“The Role of Vision in the Control of Normal Functional Movement.” Presented at the Dept. Of Physical Therapy, Northeastern University, July 12th 2004.

“The Role of the Vestibular System in the Control of Normal Functional Movement.” Presented at the Dept. of Physical Therapy, Northeastern University, July 13th 2004.

“Awareness in Situated Perception and Action” (co-authored with Robert Shaw). Invited address to the Concepts of Consciousness Workshop, at Illinois State University, Bloomington, Illinois. (Delivered November 16-18, 2004).

Invited address to the New England meeting of the National Multiple Sclerosis Society “The Role of Physical Therapy Following Episodes of Exacerbation: Dealing with Sensory and Motor Control Deficits”. (Delivered 4/8/05.)

Poster Presentation (with K. Reilly and G. Pellicchia) Frontiers Meeting, “The influence of dual tasking, walking pace, and room lighting on walking speed.” (Delivered 4/15-4/16/05.)

Invited address (co-authored with Robert E. Shaw), “Intentional Dynamics: A Gauge Theory of Goal-Directed Behavior.” 12th Annual Conference of the Natural Philosophy Alliance, sponsored by the Department of Mathematical Sciences, University of Connecticut. (Delivered 5/25/05.)

“The Availability of optical structure influences postural control differently for young and older adults.” Opening presentation for symposium on Ecological and Dynamical Systems Applications in Rehabilitation at the 13<sup>th</sup> International Conference on Perception and Action. (Delivered 7/7/05.) Abstract published in the Conference proceedings (ISEP & Univ. Calif., Riverside).

Poster Presentation, (with C. Carello & E. Amazeen) “Peripheral neuropathy and length perception by dynamic touch.” 13<sup>th</sup> International Conference on Perception and Action. (Delivered 7/9/05.)

Poster Presentation, (with S. Harrison, S. Lopresti-Goodman, R. Isenhower & A. Hajnal) “Perceived heaviness with variation in rotational inertia or static moment.” 13<sup>th</sup> International Conference on Perception and Action. (Delivered 7/9/05.)

Poster Presentation, (with S. Harrison & C. Colon-Semenza) “. ” III Step Conference of the Neurology and Pediatrics Sections of the American Physical Therapy Association. (Delivered 7/19/05.)

Poster Presentation, (with A. Olmstead, G. Pellecchia, & M. Turvey) “Do Cognitive Complexity and Coordination Stability Interact in Cognitive Influences on Bimanual Rhythmic Coordination?” Progress in Motor Control V, the International Society for Motor Control, Penn State. (Delivered 8/17/05.)

Poster Presentation, (with S. Harrison, M. Turvey, & C. Colon Semenza) “The availability of optical structure influences postural control differently for young and older adults.” Progress in Motor Control V, the International Society for Motor Control, Penn State. (Delivered 8/19/05.)

Poster Presentation (with K. Reilly and G. Pellecchia) Frontiers Meeting, “The influence of dual tasking, walking pace, and room lighting on walking speed.” (Delivered 4/16-4/17/06.)

“The Assessment of Age-Related Differences in Postural Sway Dynamics: the Relationship between Conventional (Linear) Methods and Non-Linear Dynamical Methods.” Invited colloquium, Dept. of Exercise Science, UMASS, Oct. 16<sup>th</sup>, 2005.

“The Relationship between Age-Related Changes in Vision and Postural Control: Implications for Assessing Fall Risk in Older Adults”. Invited Address to the Connecticut Physical Therapy Association. Backus Hospital, March 28<sup>th</sup>, 2006.

#### **References For Reappointment:**

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