BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Rieser, John J.	Professor
Riesel, Julii J.	FIDIESSU
eRA COMMONS USER NAME	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Harvard University	BA	1971	Social Relations
University of Minnesota	PhD	1978	Developmental Psychology

A. Positions and Honors

Positions and Employment

- 1971-1973 Secondary School Science and Mathematics Teacher, Sashe Riverschool, Tonota, Botswana
- 1973-1977 Research Assistant (1973) and NIMH Predoctoral Trainee, Institute of Child Development, University of Minnesota
- 1978-1983 Assistant Professor, Psychology and Human Development, Peabody College, Vanderbilt University
- 1983-1990 Associate Professor, Psychology and Human Development, Vanderbilt University; Director of Developmental Psychology Training Area
- 1986 (Fall) Director Associe, Laboratorie de Psychobiologie de la Enfant, C.N.R.S./E.P.H.E., Paris, France
- 1983-1994 Head of Developmental Psychology, Department of Psychology & Human Development, Peabody College, Vanderbilt University
- 1990-pres Professor, Psychology and Human Development, Peabody College, Vanderbilt University
- 1995-2000 Chair, Department of Psychology & Human Development, Peabody College, Vanderbilt University
- 2001-pres Head of Cognitive Studies, Psychology & Human Development, Peabody College, Vanderbilt University

Other Experience and Professional Memberships

<u>Honors</u>

1986 Visiting Scientist, CNRS/EPHE, Laboratoire de Psychobiologie de la Enfant, Paris, Fellow, Division 7 of the American Psychological Association

1990-1992 Associate Editor, Developmental Psychology.

1993- 1996 Advisory Panel Member, Human Cognition and Perception, NSF.

1993, 2001 Visiting Scientist, Cognitive Sciences, University of Minnesota.

1996 Visiting Scientist, CNRS, Center for Research in Cognitive Neuroscience, Marseille.

2001-2004 Member, NAS Committee on Spatial Thinking.

B. Selected peer-reviewed publications (in chronological order)

Rieser, J. J., Hill, E. W., Bradfield, A., Talor, C., Rosen, S., & Deniston, T. (1985). *The spatial orientation of low vision adults: Final report.* Washington DC: National Institute of Handicapped Research.

Bransford, J., Sherwood, R., Vye, N., & Rieser, J. J. (1986). Teaching thinking and problem solving: Research foundations. *American Psychologist, 41,* 1078-1089.

Rieser, J. J., Guth, D. A., & Hill, E. W. (1986). Sensitivity to perspective structure while walking without vision. *Perception, 15,* 173-188.

Rieser, J. J., Guth, D. A., & Weatherford, D. A. (1987). The sensitivity to spatial structure of retarded and nonretarded adults. *American Journal of Mental Deficiency, 4,* 379-391.

- Rieser, J. J. (1987). Mental models and direct perceptions: Two views of spatial learning without vision. In E. Foulke (Ed.), *Proceedings of the University of Louisville's Conference on Space*. Louisville: University of Louisville.
- Rider, E. A., & Rieser, J. J. (1988). Pointing at objects in other rooms: Young children's sensitivity to perspective structure after walking with and without vision. *Child Development, 59,* 480-494.
- Rieser, J. J. (1989). Access to knowledge of spatial structure from novel points of observation. *Journal of Experimental Psychology: Human Learning, Memory, and Cognition, 15,* 1157-1165.
- Rieser, J. J., & Kramer, S. J. (1989). The calibration of space perception as a basis for navigation. In AAAI Spring Symposium Series: Working Notes on Robot Navigation. Menlo Park CA.
- Guth, D. A., Hill, E. W., & Rieser, J. J. (1989). Tests of blind pedestrians' use of traffic sounds for streetcrossing alignment. *Journal of Visual Impairment and Blindness, 83,* 461-468.
- Rieser, J. J. (1990). Development of perceptual motor control while walking without vision: The calibration of perception and action. In H. Bloch & B. Bertenthal (Eds.), *Sensory motor organization and development in infancy and early childhood.* The Netherlands: Kluwer.
- Long, R. G., Rieser, J. J., & Hill, E. W. (1990). Mobility in individuals with moderate visual impairments. *Journal* of Visual Impairment and Blindness, 84, 111-118.
- Rieser, J. J., Ashmead, D. A., Talor, C., & Youngquist, G. (1991). Visual perception and the guidance of locomotion without vision to previously seen targets. *Perception, 19,* 675-689.
- Rieser, J. J., & Rider, E. A. (1991). The effects of route and environmental complexity on young children's spatial orientation when walking without vision. *Developmental Psychology*, 27, 97-107.
- Parke, R. D., Ornstein, P. A., Rieser, J. J., & Zahn-Waxler, C. J. (1992). Editors' introduction to the APA Centennial Series. *Developmental Psychology*, 28, 3-5.
- Rieser, J. J., Hill, E. W., Talor, C. R., Bradfield, A., & Rosen, S. (1992). Visual experience, visual field size, and the development of nonvisual sensitivity to the spatial structure of outdoor neighborhoods explored by walking. *Journal of Experimental Psychology: General, 121,* 210-222.
- Rieser, J. J. (1992). Human spatial representation and the calibration of walking without vision. In *Proceedings* of the Third International Congress of Neuroethology, 241-244.
- Littlefield, J., & Rieser, J. J. (1993). Semantic features of similarity and children's strategies for identification of relevant information in mathematical story problems. *Cognition and Instruction*, 11, 133-188
- Hill, E. W., & Rieser, J. J. (1993). How do persons with visual impairments explore novel spaces?: A study of strategies used by exceptionally good and exceptionally poor performers. *Journal of Visual Impairment and Blindness*, 87, 295-301.
- Parke, R., Ornstein, P., Rieser, J. J., & Zahn-Waxler, C. (1994). The past as prologue. In R. Parke, P. Ornstein, J. J. Rieser, & C. Zahn-Waxler (Eds.), *A century of developmental psychology* (pp. 1-72). Engelwood NJ: Erlbaum.
- Parke, R., Ornstein, P., Rieser, J. J., & Zahn-Waxler, C. (1994). *A century of developmental psychology.* Engelwood NJ: Erlbaum.
- Rieser, J. J., & Ashmead, D. A. (1994). Visual perception and cognition in infancy. *Contemporary Psychology,* 37, 744-746.
- Rieser, J. J., & Garing, A. E. (1994). Spatial orientation and perceptual-motor coordination. In R. V. Ramachandran (Ed.), *Encyclopedia of Human Behavior* (pp. 287-295). San Diego: Academic.
- Rieser, J. J. (1994). Ego-centered and environment-centered perceptions of self-movement: A commentary on A. Wertheim's article "Motion perception during self-movement." *Behavioral Sciences, 17,* 328-329.
- Rieser, J. J., Garing, A. E., & Young, M. F. (1994). Imagery, action, and young children's spatial orientation: It's not being there that counts, it's what one has in mind. *Child Development, 65,* 1262-1278.
- Rieser, J. J., Pick, H. L., Jr., Ashmead, D. A., & Garing, A. E. (1995). The calibration of human locomotion and models of perceptual-motor organization. *Journal of Experimental Psychology: Human Perception and Performance, 21,* 480-497.
- Guth, D. A., & Rieser, J. J. (1997). Perception and the control of locomotion by blind and visually impaired pedestrians. In B. Blasch, W. Wiener, and R. Welch (Eds.), *Handbook of Orientation and Mobility*, New York: American Foundation for the Blind, pp. 9-39.
- Rieser, J.J. (1999). Dynamic spatial orientation and the coupling of representation and action.. In R. Golledge (Ed.), *Cognitive mapping and spatial behavior*. Baltimore, MD: The Johns Hopkins Press, Pp.

Rieser, J. J., Lappin, Joseph S., & Jones, P. (1999). Perceiving and acting without vision. *Perception*, 28, 409-4.

Pick, H. L., Jr., Rieser, J. J., Wagner, D., and Garing, A. E. (1999). The recalibration of rotational locomotion. Journal of Experimental Psychology: Human Perception and Performance, 25, 1179-1188.

Rieser, J. J. (2000). Concepts about the causes of development: Travel, visual experience, and the development of dynamic spatial orientation. *Infancy*, *1*, 231-239.

- Hu, H. H., Gooch, A. A., Thompson, W. B., Smits, B. E., Rieser, J. J., & Shirley, P. (2001). Visual cues for imminent object contact in realistic virtual environments. *SIGGRAPH*, pp. 1-10.
- Rieser, John J., and Pick, Herbert L., Jr. The perception and representation of human locomotion. (2002). In W. Prinz and B. Hommel (Eds.). Attention and performance XIX: Common mechanisms in perception and action.

Rieser, J. J. (2003). Perceptual learning. In J. Guthrie (Ed). *Encyclopedia of education*. New York: McMillan.

C. Research Support

Ongoing Research Support

NSF IIS-0121038 – Rieser (PI)

10/01/01 - 09/30/06

National Science Foundation

Perceptual Aspects of Locomotion Interfaces

This research investigates methods that allow more accurate walking in a locomotion interface and explores how best to accurately convey a sense of spaces being walked through. Role: PI

Completed Research Support