

## DELL LYNN RHODES

Department of Psychology  
Reed College  
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### Education:

B.A., Psychology, magna cum laude, Colorado College, 1969  
Ph.D., Psychology, University of California Los Angeles, 1975

### Academic honors:

Boettcher Scholar (Colorado)  
Woodrow Wilson Fellow  
Phi Beta Kappa

### Professional societies:

American Psychological Association  
American Psychological Society  
Cognitive Neuroscience Society  
Society for Neuroscience  
Society for Psychophysiological Research

### Positions:

1975-82 Assistant Professor of Psychology, Reed College, Portland, Oregon  
1978-80 Postdoctoral Fellow, Yale University Department of Psychology  
1982-90 Associate Professor of Psychology, Reed College, Portland, Oregon  
1983-84 Visiting Scientist, Department of Anesthesiology, University of Washington, Seattle, Washington  
1990- Professor of Psychology, Reed College, Portland, Oregon  
1990-91 Associate Dean of Students, Reed College, Portland, Oregon  
1990-97 Visiting Scientist (spring, 1990), Research Fellow (spring, 1995 and 1996/97) Department of Neurology, Martinez V.A., Martinez, California

### Publications (Reed students are listed **in bold**):

- Butcher, L. L., D. L. Rhodes & Yuwiler, A. (1972). Behavioral and biochemical effects of preferentially protecting monoamines in the brain against the action of reserpine. European Journal of Pharmacology, **18**, 204-212.
- Rhodes, D. L. & Liebeskind, J.C. (1977). The central mode of action of the narcotic analgesic drugs, in Psychopharmacology for Primary Care Physicians, M. E. Jarvik (Ed.), N.Y.: Appleton-Century-Crofts.
- Rhodes, D.L. & Liebeskind, J.C. (1978). Analgesia from rostral brain stem stimulation in the rat. Brain Research, **143**, 521-532.

- Rhodes, D.L. (1979). The effects of periventricular lesions on stimulation-produced analgesia in the rat. Pain, 7, 51-63.
- Rhodes, D.L. & Schwartz, G.E. (1981). Lateralized sensitivity to vibrotactile stimulation: Individual differences revealed by interaction of threshold and signal detection tasks. Neuropsychologia, 19, 831-835.
- VanPetten, C.**, Roberts, W.J. & Rhodes, D.L. (1983). Behavioral test of tolerance for aversive mechanical stimuli in sympathectomized cats. Pain, 15, 177-189.
- Balaban, M.T.**, Rhodes, D.L. & Neuringer, A. (1990). Orienting versus defense responses to punishing feedback: Effects on learning. Biological Psychology, 30, 203-217.
- Cohen, L.**, Neuringer, A. & Rhodes, D.L. (1990). Effects of ethanol on reinforced variations and repetitions by rats under a multiple schedule. Journal of the Experimental Analysis of Behavior, 54, 1-12.
- Rafal, R., Egly, R., & Rhodes, D. (1994). Effects of inhibition of return on voluntary and visually guided saccades, Canadian Journal of Experimental Psychology, 48, 284-300.
- Henik, A., Rafal, R. & Rhodes, D. (1994). Endogenously generated and visually guided saccades after lesions of the human frontal eye fields, Journal of Cognitive Neuroscience, 6, 400-411.
- Woods, D.L., Alain, C., Diaz, R., Rhodes, D. & Ogawa, K.H. (2001). Location and frequency cues in auditory selective attention, Journal of Experimental Psychology: Human Perception & Performance, 27, 65-74.

Manuscripts in preparation or submitted

- Rhodes, D.L. & Robertson, L.C. Visual field asymmetries and allocation of attention in visual scenes, Submitted.
- Rhodes, D.L., Barnes, L. & Robertson, L.C. Multiple frames of reference are used in effortful visual search, In preparation.
- Rhodes, D.L., **Montgomery, S.** & **Flevaris, A.** Attention-centered reference frames, In preparation.

Papers and posters at professional meetings (since 1980):

- Rhodes, D.L. & Schwartz, G.E. (1980). Dissociation of pulse transit time and heart rate during biofeedback. Psychophysiology, 17, 316.
- Rhodes, D.L. & Schwartz, G.E. (1981). Pulse-to-pulse transit time is more related to peripheral blood flow than is R-wave-to-pulse transit time. Psychophysiology, 18, 171.
- Neuringer, A.J., **Balaban, M.**, **Neiworth, J.** & Rhodes, D. (1983). Punishment: Why it works and why not. Behavior Analysis Letters.
- Balaban, M.T.**, Rhodes, D.L. & Neuringer A.J. (1983). Cardiac and electrodermal responses to aversive and neutral feedback in a memory task. Psychophysiology, 20, 431.
- Jacobson, R.C., Rhodes, D.L. & Chapman, C.R. (1984). Independent effects of stimulus intensity and interstimulus interval on pain-evoked potentials. Pain, Suppl 2: S166.

- Rhodes, D.L., **Buckley, J.**, Buffington, V. & Chapman, C.R. (1984). The effects of attention on evoked potentials to painful and nonpainful gingival stimulation. Psychophysiology, 21, 594.
- Luck, S.J.** & Rhodes, D.L. (1986). The effects of sequence variability on the P300 component of the event-related potential. Psychophysiology, 23, 449.
- Weir, B.** & Rhodes, D.L. (1990). P300 latencies in interactions between visual brightness and auditory pitch, Psychophysiology, 27, S74.
- Henik, A., Rafal, R. & Rhodes, D. (1991). Endogenously generated and visually guided saccades after lesions of the human frontal eye fields. Soc. Neurosci. Abstracts, 17, 858.
- Rhodes, D.L., **Walker, J.J.** & **Gibson, B.** (1993). Event-related potential correlates of inhibition of return (poster), West Coast Attention Conference, University of Oregon.
- Rhodes, D.L. & Robertson, L.C. (1996). Scene-based processing in visual attention (poster), Cognitive Neuroscience Society.
- Thomas, S.J., Woods, D.L., Yund, E.W., & Rhodes, D.L. (1997). Electrophysiological measures of brain function: a comparison of event-related brain potentials (ERPs) and event-related differences in EEG spectral power (ERDISPS), Soc. Neurosci. Abstracts, 23, 1586.
- Thomas, S.J., Rhodes, D., & Woods, D.L., (1998). Physiological mechanisms of object based and space based attention in dynamic displays (poster), Cognitive Neuroscience Society.
- Rhodes, D.L., Barnes, L., **Davis, J.** & Robertson, L.C., (1998). Directing attention in viewer- and environment-based reference frames, CSAIL.
- Rhodes, D.L. & **Ross, L.**, (1998). The effect of nicotine on exogenous and endogenous spatial attention in non-smokers (poster), Society for Psychophysiological Research.
- Rhodes, D.L. & **Montgomery, S.** (1999). Attention-centered reference frames, CSAIL.
- Rhodes, D. & **Montgomery, S.** (2000). Attention-centered spatial asymmetries (poster), Cognitive Neuroscience Society.
- Flevaris, A., Montgomery, S. & Rhodes, D.** (2001) What's left and what's right: attention-centering of reference frames (poster), CSAIL

#### Invited presentations (since 1990):

- The Last Lecture (invited lecture for outstanding undergraduate teachers of psychology), Council of Teachers of Undergraduate Psychology, Western Psychological Association, 1992.
- Comparisons of visual and auditory spatial cuing effects, University of Oregon, 1992.
- Event-related potential studies of spatial attention, Cognitive Neuroscience Seminar, Oregon Health Sciences University, July, 1993.
- All the good simple effects are gone: Sequencing in hands-on psychology instruction, Pew Midstates Science and Mathematics conference, Carleton College, Oct., 1993.
- Attention in spatial frames of reference (1995-01): Cognitive Neuroscience Seminar, OHSU; Departmental colloquia at University of Oregon, Johns Hopkins

University, UC Berkeley, UC Davis, Reed College, Washington State University  
Vancouver

Frames of reference in visual search, invited presentation: University of Science and  
Technology of China, Beijing, May, 1999.

Other recent professional activities (since 1990):

Departmental reviews: Colorado College, Bates College

External reviewer for faculty promotion decisions at Claremont McKenna,  
Macalester College, University of Colorado, Willamette University,  
Pomona College, Davidson College.

I was the department contact person for the design and construction of the new  
Reed psychology facilities (1990-93)

Publications Committee, Society for Psychophysiological Research, 1995-97

Psychology Panel, NSF Graduate Fellowships, Member 1995-97, Chair 1998-99

Reviewer of small grant applications, Alzheimer's Center, OHSU

Manuscript reviews: Perception, Psychophysiology

Committee Work at Reed (since 1990):

Committee on Advancement and Tenure (3 years)

Community Affairs Committee (fall, 1997)

Department Chair (1997-00)

Drug and Alcohol Policy Committee (Chair, 1990-1992)

Science Buildings Planning Committee (1990-1993)

Search Committees (12 faculty appointments)

Human Subjects Research Committee (Chair, 00/01)

Courses Taught:

Introductory Psychology

Psychobiology

Psychobiology Research

Psychopharmacology

Sensation and Perception

Junior Seminar: Emotions

## Senior theses supervised directly (1990-2001)

- Atteberry, P. (1990) Brain dopamine: Influence of d-amphetamine on behavioral variability within an operant paradigm
- Bacelis, A. (1998) Central nervous system acetylcholinesterase inhibition from coexposure to pyridostigmine and blood-brain barrier-weakening stress
- Cannon, C. (1996) Exogenous and endogenous visual spatial attention: Cue attributes and task demands
- Churchland, M. (1995) Neural network approaches to understanding visual persistence
- Davis, J. (1998) Spatial biases in the letter reflection task
- Diver, N. (1999) Spatial attention in individuals with reading difficulties
- Duvel, A. (1994) Hippocampal lesions and behavioral variability
- Gibson, R. (1992) Synesthetically corresponding dimensions: Semantic or sensory?
- Flevaris, A. (2001) Defining the origin of the scene-based reference frame
- Fulton, C. (1999) The selection of local v. global reference frames
- Funk, M. (1994) Addiction to stress: an animal model
- Galligan, S. (2001) The alcohol deprivation effect: An animal model of craving
- Garza, J. (2001) Engaging and maintaining the axes of an ambiguous object-based frame: probing with the Simon effect
- Horner, M. (1991) An examination of different modes of visuo-spatial selective attention using event-related potentials
- Janata, P. (1990) An event-related brain potential investigation of a harmonic context: A step toward a psychophysiological theory of music perception
- Janowitz, H. (1993) Context violations in music
- John, S. (1991) Detection of deception using event-related potentials
- King, M. (1999) The influence of static and dynamic spatial attention on the interpretation of ambiguous figures
- Kipnis, C. (1998) Is behavioral variability memory-based? Pharmacological approaches.
- Miller, M. (2001) Gamma-band topography during object and spatial working memory
- Mitchell, J. (1992) Event-related potential correlates of aversive feedback
- Montgomery, S. (1999) Attention-centering of scene-based processing
- Morgan, D. (1996) Conceptual frames of reference: Testing Logan's theory
- Nash, C. (1994) The lateralized readiness potential as an index of response competition in the interaction between pitch and brightness
- Nunez, R. (1996) Is imagery retinotopically represented?
- Perry, J. (1999) Acupuncture and TENS in the treatment of heroin addiction: implications of a dopamine theory
- Ross, L. (1998) The effects of nicotine on visual spatial attention in non-smokers
- Sparrow, J. (1993) Inherent variability and the behavior of Spontaneously Hypertensive rats as compared to Wistar Kyoto rats in a continuously rebaited radial arm maze
- Surkan, P. (1992) Auditory prestimulation effects on visual spatial attention
- Tubridy, S. (2000) Scene-based frames of reference and viewpoint-dependent object recognition

Weir, B. (1990) P300 latency tests of cross-modality interactions in the Garner paradigm

Walker, J.J. (1994) Event-related potential investigations of correspondences between the semantic meaning of words and spatial location

Walsh, T. (1995) The effects of punishment on learning in tasks with differing attentional requirements

Ware, L. (2000) The role of eye movements in the formation of spatial representations