

**ROBERT D. RAFAL**  
**CURRICULUM VITAE**

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**EDUCATION**

1969            B.A            University of Delaware, Newark            Biology  
1973            M.D.            Jefferson Medical College, Philadelphia, Pennsylvania

**POSTGRADUATE TRAINING**

1973-1974        General Medical Training (PGY1), Good Samaritan Hospital, Portland, Oregon  
1974-1977        Neurology Residency. Oregon Health Sciences University, Portland, Oregon

**BOARD CERTIFICATION**

1974            Diplomat of the National Board of Medical Examiners  
  
1980            Certified in Neurology  
                  American Board of Psychiatry and Neurology

**ACADEMIC APPOINTMENTS**

*UNIVERSITY OF OREGON, Portland*

1980-1984        Clinical Assistant Professor of Neurology  
                  Director, Behavioral Neurology Clinic, Good Samaritan Hospital

*BROWN UNIVERSITY PROGRAM IN MEDICINE, Providence, Rhode Island*

1984            Assistant Professor of Medicine  
1987            Assistant Professor of Neurology  
1989            Associate Professor of Neurology

*UNIVERSITY OF CALIFORNIA, Davis*

1989            Associate Professor of Neurology  
1995 - 1999      Professor of Neurology  
                  Director of the UC David, East Bay Division,  
                  Neurology Residency Training Program

*UNIVERSITY OF WALES, BANGOR*

1999-2015      Professor of Clinical Neuroscience and Neuropsychology

*UNIVERSITY OF DELAWARE*

2015 -            Adjunct Professor of Psychology

## PUBLICATIONS

### JOURNAL ARTICLES

- Rafal RD and Grimm RJ. Progressive supranuclear palsy: functional analysis of the response to methysergide and anti-parkinsonian agents. *Neurology*, **31**:1507-1518, 1981.
- Posner MI, Cohen Y and Rafal RD. Neural systems control of spatial orienting. *Philosophical Transactions of the Royal Society of London*, **B298**:187-198, 1982.
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- Posner MI, Walker JA, Friedrich FJ and Rafal RD. Effects of parietal injury on covert orienting of visual attention. *Journal of Neuroscience*, **4**:1863-1874, 1984.
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- Rafal RD, Laxer KD and Janowsky J. Seizures triggered by blinking in a non-photosensitive epileptic. *Journal of Neurology, Neurosurgery & Psychiatry*, **49**:443-447, 1986.
- Rafal RD. Mental disorders in Parkinson's disease. *Rhode Island Medical Journal*, **69**:323-326, 1986.
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- Rafal RD, Inhoff AW, Friedman JH and Bernstein E. Programming and execution of sequential movements in Parkinson's disease. *Journal of Neurology, Neurosurgery & Psychiatry*, **50**:1267-1273, 1987.
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- Rafal RD and Posner MI. Deficits in human visual spatial attention following thalamic lesions. *Proceedings of the National Academy of Sciences, U.S.A.*, **84**:7349-7353, 1987.
- Rafal RD, Posner MI, Friedman JH, Inhoff AW and Bernstein E. Orienting of visual attention in progressive supranuclear palsy. *Brain*, **111**:267-280, 1988.
- Rafal RD, Friedman JH and Lannon MC. Preparation of manual movements in hemi-parkinsonism. *Journal of Neurology, Neurosurgery & Psychiatry*, **52**:399-402, 1989.
- Inhoff, AW, Diener, HC, Rafal, RD and Ivry, R. The role of cerebellar structures in the programming and execution of movement sequences. *Brain*, **112**:565-581, 1989.
- Rafal, RD, Calabresi PA, Brennan CW and Sciolto, TK. Saccade preparation inhibits reorienting to recently attended locations. *Journal of Experimental Psychology: Human Perception and Performance*, **15**:673-685, 1989.
- Rafal RD and Friedman JH. Rostral basilar transient ischemic attacks in an HIV infected patient with cryptococcal meningitis. *American Journal of Medicine*, **89**:248-249, 1990.
- Inhoff AW and Rafal RD. Cerebellar structures and the programming of movement sequences. *Behavioral Neurology*, **3**:87-97, 1990.
- Rafal R, Smith J, Krantz J, Cohen A and Brennan C. Extrageniculate vision in hemianopic humans: saccade inhibition by signals in the blind field. *Science*, **250**:118-121, 1990.
- Cohen A, Rafal R. Attention and feature integration: illusory conjunctions in a patient with a parietal lobe lesion. *Psychological Science*, **2**:106-110, 1991.
- Rafal R, Henik A, Smith J. Extrageniculate contributions to reflex visual orienting in normal humans: a temporal hemifield advantage. *Journal of Cognitive Neuroscience*, **3**:323-329, 1992.
- Inhoff AW, Rafal RD, Posner MI. Bimodal extinction without cross modal extinction. *Journal of Neurology, Neurosurgery & Psychiatry*, **55**:36-39, 1992.
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- Rafal RD, Egly R, Rhodes D. Effects of inhibition of return on voluntary and visually guided saccades. *Canadian Journal of Experimental Psychology*, **48**:284-300, 1994.
- Egly R, Driver J, Rafal R. Attention to objects and locations: evidence from normal subjects and parietal lesion patients. *Journal of Experimental Psychology: General*, **123**, 161-127, 1994.
- Henik A, Rafal R, Rhodes D. Voluntary and reflexive saccades after lesions of the human frontal eye fields. *Journal of Cognitive Neuroscience*, **6**:400-411, 1994.
- Driver J, Baylis GC, Goodrich SJ, Rafal RD. Axis-based neglect of visual shapes. *Neuropsychologia*, **32**:1353-1365, 1994.
- Baylis GC, Driver J, Baylis LL, Rafal RD. Perception of letters and words in Balint's syndrome: evidence for the unity of words. *Neuropsychologia*, **32**:1273-1286, 1994.
- Egly R, Rafal R, Driver J, Starreveld Y. Hemispheric specialization for object-based attention in a split-brain patient. *Psychological Science*, **5**:380-383, 1994.
- Cohen A, Ivry R, Rafal R, Kohn C. Response code activation by signals in the neglected hemifield. *Neuropsychology*, **9**:165-173, 1995.
- Seyal M, Ro T, Rafal R. Perception of subthreshold cutaneous stimuli following transcranial magnetic stimulation of ipsilateral parietal cortex. *Annals of Neurology*, **38**:264-267, 1995.
- Ro T, Rafal RD. Perception of geometric illusions in visual neglect. *Neuropsychologia*, **34**:973-978, 1996.
- Rafal RD, Gershberg F, Egly R, Ivry R., Kingstone, A., Ro, T. Response channel activation and the lateral prefrontal cortex *Neuropsychologia* **34**:1197-1202, 1996.
- Danziger, S., Fendrich, R., & Rafal, RD. Inhibitory tagging of locations in the blind field of hemianopic patients. *Consciousness and Cognition*, **6**:291-307, 1997.
- Ro T, Henik A, Rafal RD, Machado, L. Effects of transcranial magnetic stimulation of the frontal eye fields on voluntary and reflexive saccades. *Journal of Cognitive Neuroscience*, **9**:433-440, 1997.
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- Friedrich FJ, Egly R, Rafal R, Beck D. Spatial attention deficits in humans: a comparison of superior parietal and temporal-parietal junction lesions. *Neuropsychology*, **12**:193-207, 1998.
- Danziger S, Kingstone A, Rafal R. Orienting to extinguished signals in hemispatial neglect. *Psychological Science*, **9**:119-123, 1998.
- Marangolo P, Di Pace E, Rafal R, Scabini D. Effects of parietal lesions in humans on color and location priming. *Journal of Cognitive Neuroscience*. **10**:704-716, 1998.
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- Ward R, Danziger S, Owen V, Rafal R. Deficits in spatial coding and feature binding following damage to the human pulvinar. *Nature Neuroscience* 5:99-100, 2002.
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- Sapir A, Rafal R, Henik A. Attending to the thalamus: Inhibition of return and nasal-temporal asymmetry in the pulvinar. *NeuroReport* 13:693-697, 2002.
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- Danziger S, Ward R, Owen V, Rafal R. The effects of unilateral pulvinar damage in humans on reflexive orienting and filtering of irrelevant information. *Behavioural Neurology* 13:95 – 104, 2002.
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- Arend, I., Rafal, R., & Ward, R. (2008). Spatial and temporal deficits are regionally dissociable in patients with pulvinar lesions. *Brain*, 131(Pt 8), 2140-2152.
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- Van Koningsbruggen, M.G., & Rafal, R.D. (2009). Control of oculomotor reflexes: independent effects of strategic and automatic preparation. *Experimental Brain Research*, 192:761-768.
- Danziger, S., & Rafal, R. (2009). The effect of visual signals on spatial decision making. *Cognition*, 110:182-197.
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- van Koningsbruggen MG, Pender T, Machado L, Rafal RD. (2009) Parkinson's disease leads to impaired control of the oculomotor reflexes. *Neuropsychologia* 4: 2909-2915.
- Bultitude JH, Rafal RD. (2009) Derangement of body representation in complex regional pain syndrome: Report of a case treated with mirror and prism. *Experimental Brain Research*. DOI 10.1007/s00221-009-2107-8.
- van Koningsbruggen MG, Gabay S, Sapir A, Henik A, Rafal RD. (2010) Hemispheric asymmetry in the remapping and maintenance of visual saliency maps; A TMS study. *Journal of Cognitive Neuroscience*. 22:1730-1738.
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- van der Stigchel S, Arend I, van Koningsbruggen M, Rafal RD. (2010) Oculomotor integration in patients with a pulvinar lesion. *Neuropsychologia* 48:3497–3504.
- Arend, I, Rafal R, Ward, R. (2011) Temporal feature integration in the right parietal cortex. *Neuropsychologia* 49:1788-1793
- Shore DM, Rafal R, Parkinson J. (2011) Appetitive motivational deficits in individuals with Parkinson’s disease. *Movement Disorders* 26:1887-1892.
- Song, H-Y, Rafal RD, McPeck RM. (2011) Deficits in reach target selection after superior colliculus inactivation.. *PNAS* 108:E1433-1440.
- Bultitude J, Rafal R, Tinker C (2012) Moving forward with prisms: Sensory-motor adaptation improves gait initiation in Parkinson’s disease. *Frontiers in Neurology* 3:132.

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- van Koningsbruggen, MG, Peelen MD, Davies E, Rafal RD. (2012) Neural control of eye closure: a case study and an fMRI investigation of blinking and winking. *Behavioural Neurology*, 25:103-109.
- van der Stigchel S, van Koningsbruggen, M, Nijboer TCJ, List A, Rafal RD. (2012) The role of the frontal eye fields in the oculomotor inhibition of reflexive saccades: evidence from lesion patients. *Neuropsychologia* 50:198-203.
- Salas C, Gross JJ, Rafal RD, Vinas-Guasch N, Turnbull OH (2013) Concrete behaviour and reappraisal deficits after a left frontal stroke: A case study. *Neuropsychological Rehabilitation*. Pp. 1-34. doi:10.1080/09602011.2013.784709
- Vicario CM, Kritikos A, Avenanti A, Rafal R. (2013). Reward and punishment: investigating cortico-bulbar excitability to disclose the value of goods. *Front Psychol*. 4:39. doi: 0.3389/fpsyg.2013.00039. Epub 2013 Feb 5.
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- Van der Stigchel S, Rafal RD, Bultitude JH. (2013). Temporal dynamics of error correction in a double step task in patients with a lesion to the lateral intra-parietal cortex. *Neuropsychologia* 51: 2988-2994.
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- Capizzi, M., Correa, A., Wojtowicz, A., & Rafal, R. D. (2015). Foreperiod priming in temporal preparation: Testing current models of sequential effects. *Cognition* 134:39-49.
- Vicario CM, Rafal RD, Avenanti A. (2015) Counterfactual thinking affects the excitability of the motor cortex. *Cortex* 65:139-148
- Robert D Rafal, Kristin Koller Janet H Bultitude, Paul Mullins, Robert Ward, Anna S Mitchell, Andrew H Bell. ((2015) Connectivity between the superior colliculus and the amygdala in humans and macaque monkeys: Virtual dissection with probabilistic DTI tractography. *Journal of Neurophysiology* 114(3): 1947-1962 DOI: 10.1152/jn.01016.2014
- Poliva O, Bestelmeyer PEG, Hall M, Bultitude JH, Koller K, Rafal RD (2015). Functional organization of the human auditory fields: activation of auditory cortex in a patient with auditory agnosia from trauma to the inferior colliculus. *Cognitive and Behavioral Neurology* 28(3):160-180.

*Manuscripts under review or resubmission*

Vicario C, Rafal RD, Borgomaneri S, Kritikos A, Avenanti A. Perceiving disgust affects the excitability of the tongue cortico-motor representation.

Vicario, C. Rafal, R, Rogers, R. Being hungry: Evidence for a gut origin of morality.

*CHAPTERS & REVIEWS*

- Rafal RD, Garrison P, Laxer KD, Maukonen L, Rushmer D and Laird G. Free-ranging EEG videotelemetry in a children's neuropsychiatric unit. In: Wade JA & Penry JK (Eds.) *Advances in Epileptology: The 10th Epilepsy International Symposium*. New York: Raven Press, 1980.
- Rafal RD. Medical diagnosis and treatment. Chapter 6 In: Farah J (Ed.) *Program Assistance for Children with Epilepsy. A Manual of Services*. Portland, Oregon: Good Samaritan Hospital & Medical Center, 1983. Published under contract with the U.S. Department of Health and Human Services, 1982.

- Rafal RD. Dementia in the Emergency department: assessment of the elderly patient with altered mental state. In: Bosker G and Schwartz G (Eds.) *Geriatric Emergencies*. Washington, DC: Brady/Prentice-Hall, 1984.
- Rafal RD, Inhoff AW. Midbrain control of exogenous and endogenous orienting of visual attention. *Proceedings of the Eight Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum Publishing, 1986.
- Posner MI and Rafal RD. Cognitive theories of attention and the rehabilitation of attentional deficits. In: Meir RJ, Diller L and Benton AL (Eds.) *Neuropsychological Rehabilitation*. London: Churchill & Livingstone, 1987.
- Rafal R. Visually guided behavior. In: Litvan I & Agid Y (Eds.) *Progressive Supranuclear Palsy: Clinical and Research Approaches*. Oxford University Press, 1992.
- Rafal RD, Henik A. Inhibitory neural mechanisms for integrating controlled and automatic processes. In: Dagenbach D & Carr T (Eds.) *Inhibitory Processes in Attention, Memory and Language*. pp. 1-51, Academic Press, 1994.
- Rafal RD & Robertson L. The neurology of attention. In: Gazzaniga M (Ed.) *The Cognitive Neurosciences*. MIT Press, 1994.
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- Rafal RD. Balint's syndrome. In: Feinberg TE and Farah MJ (Eds.) *Behavioral Neurology and Neuropsychology*. McGraw-Hill, Inc., 1996, p. 337-356
- Rafal RD. The neurology of visual orienting: A pathological disintegration of development. In: Richards J (Ed.) *Cognitive Neuroscience of Attention: A Developmental Perspective*. Lawrence Erlbaum Associates, 1998, p. 181-218.
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- Robertson L & Rafal RD. (2000) Deficits of visual attention. In Gazzaniga M.S. (Ed.) *The Cognitive Neurosciences (second edition)*. pp. 623-724 MIT Press.
- Rafal, R. (2001) Bálint's syndrome. In M. Behrmann (Ed.), *Handbook of Neuropsychology*, 2<sup>nd</sup> Edition, Vol. 4. Disorders of Visual Behavior. Elsevier Press: Amsterdam, pp. 121-141.
- Rafal, R. (2002) Cortical control of visuomotor reflexes. In D. Stuss & R.T. Knight (Eds.), *Principles of Frontal Lobe Function*. Oxford University Press
- Rafal, R. (2002) Bálint's syndrome. In M. D'Esposito (Ed.), *Neurological Foundations of Cognitive Neuroscience*, MIT Press.
- Coslett, Cole, Haggard, Karnath, Katz, Rafal, Medina. Touch, Space & Body. In *Cognitive Rehabilitation Project*

#### VIDEOS

1983 *Managing with Alzheimer's disease*. Produced by Ed Mellnik and Associates; sponsored by Alzheimer's Disease and Related Disorders Association of Columbia-Willamette Area Agency on Aging, Good Samaritan's Neurological Sciences Center, Portland, OR, for the Senior Respite Care Program. Portland, OR.

1991 *Deficits of Mind and Brain*. Produced by Perpetua Productions, Eugene, OR. Sponsored by the McDonnell Summer Institute of Cognitive Neuroscience.

#### LETTERS AND COMMENTARIES

- Rafal RD. Extreme remedy (Letter). *Journal of the American Medical Association*, **240**:1855, 1978.
- Rafal RD. Progressive supranuclear palsy (Reply). *Neurology*, **32**:918-919, 1982.
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- Rafal RD. Progressive supranuclear palsy (Reply). *Neurology*, **35**:936-937, 1985.

Hargrave R, Rafal R. Depression in corticobasal degeneration. *Psychosomatics* **39**:481-482, 1998.  
Rafal R. Commentary on Ruz and Lupiáñez's "A review of attentional capture: On its automaticity and sensitivity to endogenous control". *Psicológica* **23**:357-361, 2002.  
Rafal R. 2010. Seeing is a verb. *British Journal of Psychology*. **101**, 207–212.

### **EDITORIAL BOARD MEMBERSHIP**

1995 - 2005	<i>Neuropsychologia</i>	Associate Editorial Board
2000 - 2005	<i>Behavioural Neurology</i>	Associate Editorial Board

### **HONORS**

1987	Teacher-of-the-Year Award Department of Medicine, Roger Williams Hospital, Providence, Rhode Island
2006 -	Elected to Membership without Examination, Royal College of Physicians
2012 -	Fellow of the Learned Society of Wales
2012	Bangor University Teaching Fellowship