

**BIOGRAPHICAL SKETCH**

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NAME Steven T Moore	POSITION TITLE Asst. Professor		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of New South Wales, Australia	B.E.(Hons)	1988	Electrical Engineering
University of New South Wales, Australia	M.Eng.Sc.	1990	Biomedical Engineering
University of Sydney, Australia	Ph.D.	1996	Biomedical Engineering
Mount Sinai School of Medicine, NY, NY	Post-doc	1996-1999	Otolith function in microgravity: Neurolab

**A. Positions and Honors.**Positions and Employment

1988-1990	University of New South Wales, Sydney, Australia Department of Electrical Engineering	Research Assistant
1990-1991	Royal Prince Alfred Hospital, Sydney Australia Department of Neuro-otology	Biomedical Engineer
1993-1995	Royal Prince Alfred Hospital, Sydney Australia Department of Neuro-otology	Lecturer
1996-1997	European Space Agency, Noordwijk, The Netherlands Directorate of Manned Spaceflight	Consultant: development of eye movement monitor for Neurolab (STS-90)
1996-1999	Mount Sinai School of Medicine, New York NY Department of Neurology	Research Associate
1999-2000	Mount Sinai School of Medicine, New York NY Department of Neurology	Research Assistant Professor
2001-	Mount Sinai School of Medicine, New York NY Department of Neurology	Assistant Professor
2004-	Member Extramural Review Committee: NASA post-graduate Bioastronautics and Fundamental Space Biology (BFSB) postdoctoral research program	

Honors

1993	Dora Lush Biomedical Post-Graduate Scholar, National Health & Medical Research Council (NHMRC), Australia
1993	Young Investigators Grant, Australian Brain Foundation
1998	NASA Certificate of Achievement ATLAS project on Neurolab STS-90
2005	NASA Certificate of Recognition for a Space Act Award MSC-23957-1

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

- Moore ST**, McCoy SG, Curthoys IS. VTM - an image processing system for measuring ocular torsion. *Comp Meth Prog Biomed*, 1991; 35: 219-30.
- Smith ST, Curthoys IS, **Moore ST**. The human ocular torsion position response during yaw angular acceleration. *Vision Res*, 1995; 35: 2045-55.
- Haslwanter T, **Moore ST**. A theoretical analysis of three dimensional eye position measurement using image processing. *IEEE Trans BME*, 1995; BME-42: 1053-61.
- Moore ST**, Haslwanter T, Curthoys IS, Smith ST. A geometric basis for measurement of three-dimensional eye position using image processing. *Vision Res*, 1996; Vol.36: 445-59.
- Zhu D, **Moore ST**, Raphan T. Robust pupil center detection using a curvature algorithm. *Comput Methods Programs Biomed*, 1999; 59: 145-57.
- Hirasaki E, **Moore ST**, Raphan T, Cohen B. Effects of walking velocity on vertical head and body movements during locomotion. *Exp Brain Res*, 1999; 127: 117-30.
- Moore ST**, Hirasaki E, Cohen B, Raphan T. Effect of viewing distance on the generation of vertical eye movements during locomotion. *Exp Brain Res*, 1999; 129: 347-61.
- Clement G, **Moore ST**, Raphan T, Cohen B. Perception of tilt (somatogravic illusion) in response to sustained linear acceleration during space flight. *Exp Brain Res*, 2001; 138: 410-8.
- Moore ST**, Clement G, Raphan T, Cohen B. Ocular counterrolling induced by centrifugation during orbital space flight. *Exp Brain Res*, 2001; 137: 323-35.
- Imai T, **Moore ST**, Raphan T, Cohen B. Interaction of the body, head, and eyes during walking and turning. *Exp Brain Res*, 2001; 136: 1-18.
- Moore ST**, Clement G, Dai M, Raphan T, Solomon D, Cohen B. Ocular and perceptual responses to linear acceleration in microgravity: alterations in otolith function on the COSMOS and Neurolab flights. *J Vestib Res*, 2003; 13: 377-93.
- Zhu D, **Moore ST**, Raphan T. Robust and real-time torsional eye position calculation using a template-matching technique. *Comput Methods Programs Biomed*, 2004; 74: 201-9.
- Moore ST**, Hirasaki E, Raphan T, Cohen B. Instantaneous rotation axes during active head movements. *J Vestib Res*, 2005; 15: 73-80.
- Moore ST**, Diedrich A, Biaggioni I, Kaufmann H, Raphan T, Cohen B. Artificial gravity: a possible countermeasure for post-flight orthostatic intolerance. *Acta Astronaut*, 2005; 56: 867-76.
- Moore ST**, Cohen B, Raphan T, Berthoz A, Clement G. Spatial orientation of optokinetic nystagmus and ocular pursuit during orbital space flight. *Exp Brain Res*, 2005; 160: 38-59.
- MacDougall HG, **Moore ST**. Marching to the beat of the same drummer: the spontaneous tempo of human locomotion. *J Appl Physiol*, 2005; 99: 1164-73.
- MacDougall HG, **Moore ST**. Functional assessment of head-eye coordination during vehicle operation. *Optom Vis Sci*, 2005; 82: 706-15.
- MacDougall H, **Moore ST**, Curthoys IS, Black FO. Modeling postural instability with Galvanic vestibular stimulation. *Exp Brain Res*, 2006; 172: 208-20.
- Moore ST**, MacDougall H, Peters BT, Bloomberg JJ, Curthoys IS, Cohen H. Modeling locomotor dysfunction following spaceflight with Galvanic vestibular stimulation. *Exp Brain Res*, 2006; 174: 647-659.
- Moore ST**, MacDougall H, Gracies J-M, Cohen H, Ondo W. Long-term monitoring of gait in Parkinson's disease. *Gait Posture*, 2007; 26: 200-207.
- Moore ST**, MacDougall HG, Gracies J-M, Ondo WG. Locomotor response to levodopa in fluctuating Parkinson's disease. *Exp Brain Res* 2008; 184: 469-478.
- Moore ST**, MacDougall HG, Ondo WG. Ambulatory monitoring of freezing of gait in Parkinson's disease. *J Neurosci Meth* 2008; 167: 340-348.
- Moore ST**, MacDougall HG, Lesceu X, Speyer JJ, Wuyts F, Clark JB. Head-eye coordination during simulated orbiter landing. *Aviat Space Environ Med* 2008; 79: 888-898.