

**Daniel Goldman, Ph.D.**

**Present Position:** Associate Professor and Graduate Chair, Department of Medical Biophysics, University of Western Ontario, London, Ontario, Canada.

**Education:** B.S. in Applied and Engineering Physics, Cornell University (1983-1987); Ph.D. in Applied Mathematics, Brown University (1987-1993); Postdoctoral Fellow in Applied Mathematics, Brown University (1993-1994); Postdoctoral Fellow in Aerospace and Mechanical Engineering, Boston University (1994-1996); Postdoctoral Fellow in Biomedical Engineering, Johns Hopkins University (1996-2000).

**Professional Societies:** Microcirculatory Society (2004-Present); Society for Industrial and Applied Mathematics (1996-Present).

**Honors and Awards:** Postdoctoral Fellowship, College of Engineering, Boston University (1994-1995); NRSA Individual Postdoctoral Fellowship, Heart Lung and Blood Institute, National Institutes of Health (1996-1999).

**Funding:** Whitaker Foundation □ An Experiment-Based Computational Study of Microvascular Blood Flow and Transport during Sepsis (PI, 2001-2004); Canadian Institutes of Health Research (CIHR) □ Optical Imaging of Microvascular Oxygen Transport in Skeletal Muscle (co-PI, 2005-2008); NSF □ Experiments and Modules for a Capstone Course in Applied Mathematics (PI, 2005-2006); CIHR □ Oxygen Supply Dependency: Mechanisms and Modulation (co-PI, 2006-2009); NIH □ Microvascular O<sub>2</sub> Delivery: Impact of Erythrocyte-Released ATP (co-PI, 2007-2010).

**Grant Review:** National Science Foundation, Division of Mathematical Sciences, External Reviewer.

Peer Review: American Journal of Physiology (Heart and Circulatory Physiology); Annals of Biomedical Engineering; Biomechanics and Modeling in Mechanobiology; Bulletin for Mathematical Biology; Intensive Care Medicine; Journal of Biomechanical Engineering; Journal of Biomechanics; Journal of Neuroscience Methods; Journal of Theoretical Biology; Mathematical Biosciences; Mathematical Medicine and Biology; Microcirculation; Microvascular Research; Multiscale Modeling and Simulation; Royal Society Journal Interface; SIAM Journal of Applied Mathematics; SIAM Journal of Numerical Analysis.

**Current Research Interests:** Fundamental properties of microvascular blood flow and oxygen delivery; Integrative modeling of microvascular flow regulation; Tissue oxygenation and microvascular dysfunction in sepsis and type 2 diabetes.

**Personal Statement:** The Microcirculatory Society has been extremely important to the development of my scientific career, and I would appreciate the opportunity to support the MCS by serving as Treasurer. I have not previously been involved with the finances of a professional society, but have experience managing research grants as well as the funding of a sizable graduate program (approximately 90 M.Sc. and Ph.D. candidates). As Treasurer I will work to maintain the financial health of the MCS and see that all relevant policies and rules are followed.