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Robert Moss

Appointments 2012-2014	Duke University, USA Visiting Assistant Professor, Department of Mathematics.
2010-2012	CNRS, France Postdoc, IR4M CNRS UMR8081, Université Paris-Sud.
2009-2010	University of Melbourne, Australia Research Officer, Melbourne School of Population and Global Health.
Education 2005-2008	University of Melbourne, Australia PhD, Renal modelling. • Stawell Scholarship recipient, 2008 • Australian Postgraduate Award
2000-2004	BSc(Pure Maths), BE(Software, First Class Honors)
Publications	Peer-reviewed journal articles
May 2014	Moss & Layton. "Dominant factors that govern pressure natriuresis in diuresis and antidiuresis: a mathematical model", <i>AJP Renal</i> 306(9): F952–F969.
Jan 2014	Moss & Thomas. "Hormonal regulation of salt and water excretion: a mathematical model of whole-kidney function and pressure-natriuresis", <i>AJP Renal</i> 306(2): F224–248. Selected for an Editorial Focus article (link)
Dec 2012	Dafilis et al. "Drivers and consequences of influenza antiviral resistant-strain emergence in a capacity-constrained pandemic response", <i>Epidemics</i> 4(4): 219–226.
Jun 2012	Moss et al. "Virtual Patients and Sensitivity Analysis of the Guyton Model of Blood Pressure Regulation: Towards Individualized Models of Whole-Body Physiology", <i>PLoS Comp Biol</i> 8(6): e1002571.
Apr 2012	Bolton et al. "An analysis of the likely effectiveness of pharmaceutical and non-pharmaceutical interventions for mitigating influenza transmission in Mongolia", <i>Bull WHO</i> 90(4): 264–271.
Oct 2011	Hernández et al. "Integration of detailed modules in a core model of body fluid homeostasis and blood pressure regulation", <i>Prog Biophys Mol Biol</i> 107(1): 169–182.
May 2011	McCaw et al. "A decision support tool for evaluating the impact of a diagnostic-capacity and antiviral-delivery constrained intervention strategy on an influenza pandemic", <i>Influenza Other Respi Viruses 5(Suppl. 1)</i> : 212–215.
Feb 2011	Moss et al. "Diagnosis and Antiviral Intervention Strategies for Mitigating an Influenza Epidemic", <i>PLoS ONE</i> 6(2): e14505.
Nov 2009	Moss et al. "Discrete network models of interacting nephrons, <i>Physica D</i> 238(22): 2166–2176.
May 2009	Moss et al. "A computational model for emergent dynamics in the kidney, <i>Phil. Trans. R. Soc. A</i> 367(1896): 2125–2140.
May 2009	Harris et al. "The Virtual Kidney: an e-Science interface and Grid Portal",

Phil. Trans. R. Soc. A 367(1896): 2141-2159.

Presentations	invitea Taiks
May 2014	Molecular to Systems Physiology.
•	Mathematical Biosciences Institute, Ohio State University.
	Conferences
May 2011	French Society of Theoretical Biology (presented in French).
•	Autrans, France.
Apr 2010	NSW Epidemiology Special Interest Group.
Apr 2010	NSW Department of Health.
	•
Mar 2010	MISMS Oceania Regional Influenza Meeting.
	Melbourne Business School.
Dec 2009	NHMRC H1N1 workshop.
	Canberra, ACT.
Sep 2008	UK e-Science 2008 All Hands Meeting.
	University of Edinburgh, Scotland.
Jul 2007	Complex 07: 8th Asia-Pacific Complex Systems Conference.
•	Gold Coast, Queensland.
	Best Talk in Track.
Feb 2007	The Kidney: Cellular, Tubular, and Vascular Physiology.
160 2007	Mathematical Biosciences Institute, Ohio State University.
	Mathematical biosciences institute, Onio State Oniversity.
	Seminars
Aug 2013	Department of Biomedical Physiology and Kinesiology,
	Simon Frasier University.
Sep 2009	Department of Nephrology, Austin Hospital.
May 2009	Mathematics Department, University of Melbourne.
	Laboratory IBISC, Université d'Evry Val d'Essonne.
Dec 2008	· · · · · · · · · · · · · · · · · · ·
Aug 2008	PhD Completion Seminar.
	Department of Computer Science and Software Engineering.
	University of Melbourne.
	Posters
Apr 2014	Experimental Biology 2014.
•	Experimental Biology 2014. Experimental Biology 2013.
Apr 2013	1 63
Apr 2012	Experimental Biology 2012.
Apr 2011	Experimental Biology 2011.
Sep 2010	VPH 2010 Annual Conference.
Teaching	Lecturer
2013	Multivariable Calculus, Duke University
	Team Supervisor
2007-2008	Software Engineering Project, University of Melbourne
	Tutor
2005 2000	Tutor
2005-2008	Software Engineering Methods & Testing, University of Melbourne
2001-2004	Software Engineering Principles & Tools, University of Melbourne
Grants & Awards	
2010	The Origins of Renal Physiology, MDIBL.
2008	Stawell Scholarship recipient.

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Professional Service Manuscript Reviewer

. American Journal of Physiology – Renal Physiology

BMC Infectious Diseases

Mathematical Medicine & Biology

References Available upon request

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