

## Geoffrey A.M. Hunter

---

CONTACT INFORMATION	University of Utah Department of Mathematics 155 South 1400 East, Room 233 Salt Lake City, UT 84112 USA	<i>Phone:</i> (801) 915-3422 <i>Fax:</i> (801) 581-4148 <i>E-mail:</i> Geoffrey.Hunter@utah.edu <i>Website:</i> www.math.utah.edu/~hunter
EDUCATION	<b>University of Utah</b> , Salt Lake City, Utah, USA Ph.D., Mathematics Thesis Topic: Understanding the arrhythmogenic role of stretch-activated channels in and around the border zone of human myocardium during acute regional ischemia. Supervisor: Dr. James Keener.	<b>May 2006 - Present</b>
	<b>University of Utah</b> , Salt Lake City, Utah, USA M.Sc., Mathematics Supervisor: Dr. James Keener.	<b>Aug 2004 - May 2006</b>
	<b>University of Waterloo</b> , Waterloo, Ontario, Canada B.Math, Applied Mathematics Co-op Graduated with distinction. Supervisor: Dr. S. Sivaloganathan and Dr. G. Tenti.	<b>Sept 1999 - Apr 2004</b>
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Applications of stochastic models in physiology</li><li>• Mechanical properties of myocardium</li><li>• Electrophysiological changes of myocardium during ischemia</li><li>• Border zone arrhythmias</li><li>• Biofluids, polymers, and gels</li><li>• Quorum sensing in <i>V.fischeri</i></li></ul>	
PUBLICATIONS	F. B. Sachse, G. A. M. Hunter, D. L. Weiss, and G. Seemann, "A Framework for Modeling of Mechano-Electrical Feedback Mechanisms of Cardiac Myocytes and Tissues" in <i>Proc. 29th Conf. IEEE Eng. in Med. and Biol.</i> , 2007  G. A. M. Hunter, F. B. Sachse, J. P. Keener, "A Markov Model of Stretch-Activated Channels Found in Human Cardiac Myocytes" (in preparation)	
COURSE NOTES	AMATH 455 Control Theory Course Notes (with B. Ingalls at U of Waterloo) Mathematical Literacy (Math 1030 Course Notes)	(in preparation) <b>May 2005</b>
AWARDS	<b>Barbershop Harmony Society</b> International Convention Chorus Competition: 13 <sup>th</sup> and 23 <sup>rd</sup> place. District Chorus Competition: 2 <sup>nd</sup> place.	<b>2005, 2006</b> <b>2004, 2005, 2006</b>
	<b>Alumnus Work Report Award</b> <i>University of Waterloo</i>	<b>2003</b>
PROFESSIONAL MEMBERSHIPS	American Mathematical Society	

EMPLOYMENT EXPERIENCE	<b>University of Utah, Department of Mathematics</b> , Salt Lake City, Utah, USA			
	<i>Teaching (T) and Teaching Assistant (TA)</i>			
	• (T) Math 1100: Quantitative Analysis	May 2006 - Aug 2006 & Jan 2007 - May 2007		
	• (TA) Math 2250: ODE's and Linear Algebra		Aug 2006 - Dec 2006	
	• (TA) Math 1210: Calculus I		Jan 2006 - May 2006	
	• (TA) Math 6710: Applied Linear Operators and Spectral Methods	Aug 2005 - Dec 2005		
	• (T) Math 1030: Quantitative Reasoning		Aug 2004 - Aug 2005	
CONFERENCES ATTENDED	University of Notre Dame Biocomplexity Workshop, Notre Dame, Indiana, USA			Oct 2005
	The CND Summer School (McGill U), Montreal, Québec, Canada			May 2004
	The Fields Institute's Mathematical Oncology Workshop, Toronto, Ontario, Canada			Apr 2004
	The Fields Institute's Mathematics in Medicine Seminar, Toronto, Ontario, Canada			July 2003
	The Fields Institute's Mathematics in Medicine Workshop, Waterloo, Ontario, Canada			July 2003
	The PIMS Mathematical Biology Workshop (U Alberta), Edmonton, Alberta, Canada			May 2003
COMPUTER SKILLS	Matlab 6.5	Adobe Illustrator CS3	Maple 9.0	L <sup>A</sup> T <sub>E</sub> X
	Excel VBA	Adobe Dreamweaver CS3	C++	Windows XP Pro
				MS Office 2003
OTHER EMPLOYMENT EXPERIENCE (ONTARIO, CANADA)	<b>Apple One Employment Agency</b> <i>General Laborer</i>			June 2004 - Aug 2004
	<b>Entrepreneur</b> <i>Math/English/Business Tutor</i>			Sept 1996 - Apr 2004
	<b>U. of Waterloo, Faculty of Mathematics</b> <i>Marker/Tutor</i>			Sept 2003 - Dec 2003
	<b>U. of Waterloo</b> <i>Full-time Undergraduate Research Assistant</i>			Apr 2003 - Aug 2003
	<b>LDANP</b> <i>Information Officer</i>			May 2002 - Aug 2002
	<b>Sheridan College</b> <i>Business Tutor</i>			Sept 2001 - Dec 2001
	<b>TD Securities</b> <i>Business Analyst</i>			Jan 2001 - Apr 2001
	<b>Entrepreneur</b> <i>Magician</i>			June 1996 - Sept 2000
	<b>Custom Club Shop</b> <i>Shipper Receiver</i>			May 2000 - Aug 2000
	<b>University of Waterloo</b> <i>Alumni Fundraiser</i>			Sept 1999 - Dec 1999
	<b>Peel District School Board</b> <i>Peel Summer Academy Counsellor</i>			July 1997, 1998, & 1999
	<b>Dufferin Games</b> <i>Sales Associate</i>			Sept 1998 - Sept 1999
	<b>Peel District School Board</b> <i>Adult Education Office Staff</i>			Sept 1994 - Apr 1998
VOLUNTEER EXPERIENCE (ONTARIO, CANADA)	<b>Eastbourne Elementary School</b> <i>Volunteer</i>			Sept 2001 - Aug 2004
	<b>University of Waterloo</b> <i>Campus Day Volunteer</i>			Mar 2003 & 2004
	<b>YMCA</b> <i>Fitness Consultant</i>			June 2002 - Aug 2002
	<b>Mathematics Endowment Fund</b> <i>Applied Math Representative</i>			Jan 2003 - Apr 2003
CLUBS/ACTIVITIES	<b>Saltaires Show Chorus</b> <i>VP Marketing and Public Relations</i>			Jan 2007 - Present
	<b>First Baptist Church</b> <i>Bass Singer</i>			Aug 2006 - Present
	<b>Saltaires Show Chorus</b> <i>Member-At-Large and Show Chairman</i>			Jan 2006 - Dec 2006
	<b>University of Utah A Cappella Choir</b> <i>Bass Singer</i>			Jan 2006 - April 2006
	<b>(U of Waterloo) Broomball Competitive League</b> <i>Competitor</i>			Jan 2004 - Apr 2004
	<b>(U of Waterloo) Juggling Club</b> <i>Juggler</i>			Apr 2003 - Apr 2004
	<b>Conrad Grebel University Choir</b> <i>Bass Singer</i>			May 2003 - Aug 2003
	<b>Tricity Slickers Chorus</b> <i>Bass Singer &amp; Show Administrator</i>			Aug 1999 - Apr 2000
	<b>Oakville Entertainers Chorus</b> <i>Bass Singer</i>			Oct 1997 - Aug 1999
SKILLS/INTERESTS	Singing	Mathematical Physiology	Cycling	Traveling
	Yoga	Entrepreneurship	Digital Photography	Arranging Music
	Education	Magic	Squash	Cooking