

Lisa Rogers

Courant Institute of Mathematical Sciences

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Education	PhD, Mathematics , Rensselaer Polytechnic Institute, August 2010 BS, Mathematics , Rensselaer Polytechnic Institute, May 2006	
Experience	<i>National Science Foundation Postdoctoral Research Fellow</i> Mentor: Charlie Peskin Courant Institute of Mathematical Sciences	2010-2013
	<i>Lab Instructor/Teaching Assistant</i> Computers in Medicine and Biology Courant Institute of Mathematical Sciences	Spring 2011
	<i>Lab Research Assistant</i> BIDMC Scammell Lab Harvard University	2009
	<i>Graduate Research Assistant</i> Supervisor: Mark Holmes Rensselaer Polytechnic Institute	2008-2010
Teaching	<i>Instructor, Mathematical Modeling</i> Courant Institute of Mathematical Sciences	Spring 2013
	<i>Instructor, Calculus II</i> Courant Institute of Mathematical Sciences	Fall 2012
	<i>Instructor, Multivariable Calculus</i> Courant Institute of Mathematical Sciences	2010-2011, Fall and Spring Semesters
	<i>Teaching Assistant and Research Advisor, Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS)</i> Rensselaer Polytechnic Institute	2006-2008
	<i>Teaching Assistant, Differential Equations, Calculus 1 and 2</i> Rensselaer Polytechnic Institute	2006-2008
	<i>Instructor, Mathematical Modeling</i>	Summer 2006

Johns Hopkins Center for Talented Youth at Skidmore College

Papers/Preprints Rogers L, Holmes M. *A Mathematical Model of the Human Sleep-Wake Cycle*
arXiv preprint arXiv:1208.3228 Submitted for publication.

Selected Talks *Mathematically Modeling the Neuroregulatory Mechanisms of the Human Sleep Wake System*
Rapoport Sleep Lab Meeting, November 2012

Mathematically Modeling the Neuroregulatory Mechanisms of the Human Sleep Wake System
International Symposium on Biomathematics and Ecology: Education and Research,
November 2012

Calculus for the Natural and Physical Sciences
International Symposium on Biomathematics and Ecology: Education and Research,,
November 2012

Mathematically Modeling the Neuroregulatory Mechanisms of the Human Sleep Wake System
Society for Mathematical Biology Annual Meeting 2012

Mathematically Modeling the Neuroregulatory Mechanisms of the Human Sleep Wake System
American Institute of Mathematical Sciences ICSDEA 2012

Neuroregulatory Mechanisms of the Human Sleep Wake System
University of Michigan 2012

Neuroregulatory Mechanisms of the Human Sleep Wake System
Applied Math Seminar, Courant Institute of Mathematical Sciences, 2011

The Neurochemistry of Sleep and Wake: Modeling the Human Sleep-Wake Cycle
RPI Applied Math Days, March 2010

The Neurochemistry of Sleep and Wake: Modeling the Human Sleep-Wake Cycle
Mostly Biomathematics Seminar, Courant Institute of Mathematical Sciences, 2009

The Neurochemistry of Sleep and Wake: Modeling the Human Sleep-Wake Cycle
McCarley and Strecker Lab, Harvard Universty, 2009

Mathematically Modeling the Human Sleep Wake System
Scammell Lab Meeting, Harvard University, 2009

Neurochemically Based Model of the Human Sleep Wake System
Society for Mathematical Biology Annual Meeting, University of Vancouver, 2009

Mathematically Modeling the Human Sleep Wake System
SIAM Annual Meeting, 2008

Mathematically Modeling the Human Sleep-Wake Cycle
Carskadon Lab, Brown University, 2009

**Fellowships and
Awards**

RPI Ralph Ernest Huston Teaching Prize, 2008

RPI Joaquin B. Diaz Excellence in Research Prize, 2010

NSF Mathematical Sciences Postdoctoral Fellowship, 2010-2013

Courant Institute Instructor, 2010-2011, 2012-2013

**Service and
Synergistic
Activities**

Organizer and Mentor, SURE Program
New York University, Summer 2012

Organizer and Mentor, Mathematical Contest in Modeling
Rensselaer Polytechnic Institute, 2007-2010
New York University, 2010-Present

Organizer, Dynamical Systems Seminar
Rensselaer Polytechnic Institute, 2006-2009

Lecturer, Young Scholars Program
Primary schools in the Capital Region, 2005-2006

Secretary, Graduate Student SIAM Chapter
Rensselaer Polytechnic Institute, 2009-2010

Session Chair, Mathematical Modeling
International Symposium on Biomathematics and Ecology: Education and Research,
St. Louis 2012

Session Chair, Neuroscience
Society for Mathematical Biology Annual Meeting, Toronto 2008

Student Representative, RPI Skills Assistant Program
National Consortium for Specialized Secondary Schools of Mathematics, Science
and Technology, San Antonio 2005

Computer Skills *Languages & Software:* Matlab, Maple, Octave, XPP, LaTeX. Learning Mathematica.

Operating Systems: OSX, Windows, Ubuntu Linux.