SHISHI LUO

Department of Mathematics

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EDUCATION

Ph.D in Mathematics, Duke University, Durham, NC, USA   May, 2013 (expected)

BSc and BCommerce, University of Queensland (UQ), St Lucia, Australia   2006

Study abroad, University of California-Los Angeles (UCLA), CA, USA   2005-2006

PUBLICATIONS

- **Luo S**, Koelle K. Navigating the devious course of evolution: The importance of mechanistic models for identifying eco-evolutionary dynamics in nature. Revised and resubmitted to *American Naturalist*
- Ben-Shachar R, Chen Y, **Luo S**, Hartman C, Reed M, Nijhout HM. The biochemistry of acetaminophen hepatotoxicity and rescue: A mathematical model. Accepted for *Theoretical Biology and Medical Modelling*
- **Luo S**, Reed M, Mattingly JC, Koelle K. The impact of host immune status on the within-host and population dynamics of antigenic immune escape. *Journal of the Royal Society Interface* **9**, 2603-13, 2012

In preparation

- **Luo S**. A ball-and-urn process captures antagonistic multilevel selection
- **Luo S**, Mattingly JC. Propagation of chaos and a Fleming-Viot limit for a multilevel population process

HONORS/FELLOWSHIPS

Katherine Goodman Stern Fellowship (stipend and tuition)   2012

Center for Theoretical and Mathematical Sciences Fellowship (stipend and tuition)   2010

Howard Hughes Summer VIP Program (summer stipend)   2009

James B. Duke Fellowship (supplemental PhD support)   2007-2011

TEACHING EXPERIENCE

Duke University, Durham, NC, USA   2007-2012

Course Instructor, Department of Mathematics:

- Multivariate Calculus for Economics (Fall 2011)
- Ordinary and Partial Differential Equations (Summer 2011)
- Laboratory Calculus and Functions I (Fall 2009)
- Introductory Calculus II (Fall 2008)

UCLA, Los Angeles, CA, USA   2006

Peer Learning Tutor, Academic Advancement Program

- Introductory Statistics, Calculus for Life Sciences (Winter 2006)
- Introductory Statistics (Spring 2006)

UQ, Brisbane, Australia 2004-2005, 2006
Teaching Assistant (recitation leader), Department of Mathematics, School of Economics

- Calculus I and II (Sem 1 and 2, 2004; Sem 1, 2005; Sem 2, 2006)
- Quantitative Economic and Business Analysis (Sem 2, 2006)

SELECTED CONFERENCE/SEMINAR TALKS

2012	May	Invited talk, Duke Mathematical Biology Workshop
2011	Nov	Epidemics[3], Boston, MA
	Oct	Duke Graduate/Faculty Seminar
	Apr	Duke Center for Theoretical and Mathematical Sciences Seminar
2010	Nov	Duke Graduate/Faculty Seminar
	May	4th Annual Graduate Student Probability Conference, Durham, NC

SELECTED POSTER PRESENTATIONS

2012	Oct	Workshop for Women in Probability (WWP), Durham, NC
	Jun	Ecology and Evolution of Infectious Disease (EEID), Ann Arbor, MI
	May	Mathematical Biosciences Institute (MBI) Workshop on Spatial Models of Micro and Macro Systems, Columbus, OH
	Apr	MBI Workshop on Evolution and Spread of Disease, Columbus, OH
2011	Jun	EEID Conference, Santa Barbara, CA
2010	Jun	EEID Conference, Ithaca, NY

COMPUTER SKILLS

Programming: C/C++, Matlab. Familiar with Mathematica and R
Platforms: Mac OS, Linux, Windows

ADDITIONAL ACADEMIC TRAINING

2012	May	MBI Workshop on Spatial Models of Micro and Macro Systems, Columbus, OH
	Apr	MBI Workshop on Evolution and Spread of Disease, Columbus, OH
2011	Jul	MBI Summer Graduate Program, Columbus, OH. Infectious disease, resource management, invasive species, and evolutionary biology. Group project: Spatial disease model of Haiti cholera outbreak
	Jun	EEID Workshop on Evolution, Santa Barbara, CA. Group project: Phylogenetics of dengue
2010	Jun	Pacific Institute of the Mathematical Sciences (PIMS) Summer School in Probability, Seattle, WA
2009	Jul	MBI Summer Graduate Program, Columbus, OH. Mathematical ecology and evolution. Group project: A phylogeographic distance metric for infectious disease
2008	Jul	Cornell Probability Summer School, Ithaca, NY. Probability problems that arise from ecology

DEPARTMENTAL SERVICE

2012	Co-organizer and mentor, Noetherian Ring mentoring program: matches female members of the department with academically senior female mentors
2012	Panelist, Department of Mathematics recruitment, Duke University
2010-11	Co-organizer, Graduate/Faculty Seminar: weekly seminar for members of the department to present research
2007-08	Graduate student representative to Department Chair and DGS

TRAVEL AWARDS

2012	Jun	Duke Graduate School Conference Travel Fellowship
	May	MBI Workshop on Spatial Models of Micro and Macro Systems, Columbus, OH
	Apr	MBI Workshop on Evolution and Spread of Disease, Columbus, OH
2011	Sep	Assoc. for Women in Mathematics (AWM) 40th Anniversary Conference, Providence, RI
	Jul	MBI Summer Graduate Program, Columbus, OH
	May	EEID Conference and Workshop, Santa Barbara, CA
	Feb	Women in Mathematics Symposium, UCLA, CA
2010	Jul	PIMS Summer School in Probability, Seattle, WA
2009	Jul	MBI Summer Graduate Program, Columbus, OH
2008	Oct	Workshop for Women in Probability, Ithaca, NY
	Jul	Cornell Probability Summer School, Ithaca, NY. Probability problems that arise from ecology