

Eli Goldwyn

Curriculum Vitae

Contact Information

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Mailing Address

Department of Mathematics
University of California, Davis
One Shields Avenue
Davis, CA 95616

Education

June 2008

University of California, Davis

Ph.D. in Applied Mathematics (expected)
Dissertation Adviser: Alan Hastings

Courant Institute, New York University

M.S. in Mathematics May 2003
Thesis: *Continuous and Discrete Time Disease Transmission Models*
Thesis Adviser: Jerome Percus

Pomona College

B.A. in Mathematics May 1999
Thesis: *Dissipation in Food Web Models*
Thesis Adviser: Richard Elderkin

Research Interests

Population Dynamics in Ecology and Epidemiology, Perturbation Theory,
Asymptotic Analysis, Weakly Coupled Oscillators

Professional Experience

Graduate Student Researcher

Alan Hastings (5 quarters)
Environmental Science and Policy Department

Associate Instructor

Department of Mathematics, UC Davis Fall 2005, 2006
Organized and taught Pre-Calculus course (UC Davis Mat 12)

Representative to the Graduate Group in Applied Mathematics

Department of Mathematics, UC Davis Spring 2007-2008
Acted as liaison between faculty and graduate students

Executive Committee Member UC Davis SIAM club

2007-2008
Organized Davis SIAM Student Research Conference (DSSRC)
Served on Five Person Committee Organizing and Running SIAM Club

Teaching Assistant

Department of Mathematics, UC Davis Spring 2005
Held office hours and graded exams for upper level ODE course

Department of Mathematics, UC Davis
Held office hours and graded exams for Differential Equations course

Fall 2005

Department of Mathematics, UC Davis
Led discussion sections for Calculus courses, held office hours, graded exams

Fall 2004

**Grants
Awarded**

VIGRE Summer Research Fellowship
*(Vertically Integrated Grants for Research and
Education in the Mathematical Sciences)*

Department of Mathematics UC Davis

Summer 2007

VIGRE Fellowship

Department of Mathematics UC Davis

(7 quarters)

Publications

E.E. Goldwyn and A. Hastings, "When Can Dispersal Synchronize
Populations?" *Theoretical Population Biology*, May 2008, pp. 395-402.

E.E. Goldwyn and A. Hastings, "Small heterogeneity has
Large Effects on Synchronization of Ecological Oscillators"
(under review)

Select Talks

Phase Models and Synchrony in Predator-Prey Oscillators
Society of Mathematical Biology, Annual Meeting
Mathematical Biology Seminar; UC Davis

July 2007

December 2005

The Effect of Migration on Predator-Prey Oscillators
Undergraduate Math Seminar, UC Davis

May 2006

Dissipation in Food Web Models
Mathematics Seminar, Pomona College

April 1999

Membership

Society for Mathematical Biology
Society for Industrial and Applied Mathematics

Reviewer

Journal of Mathematical Biology