

# Anne Elizabeth Yust

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## Education

**Carnegie Mellon University**, Pittsburgh, PA  
Ph.D. in Mathematics, Expected 2010.

**Carnegie Mellon University**, Pittsburgh, PA  
M.S. in Mathematics, 2007.

**Bridgewater College**, Bridgewater, VA  
B.S. in Mathematics, 2005.

## Research Interests

### Mathematical Biology

Dynamical Systems, Biological Networks, Immune System Response

### Numerical Analysis

Optimization, Numerical Solutions to Differential Equations

### Control Theory

Optimal Control, Feedback, System Identification

## Presentations

*How to Control Things: An Introduction to Control Theory*, CNA Summer Institute Seminar July 2, 2009, Carnegie Mellon University, Pittsburgh, PA.

*Epidemic Modeling*, Undergrad Colloquium, February 19, 2009, Carnegie Mellon University, Pittsburgh, PA.

*Probabilistic Modeling of Gene Interactions*, Graduate Student Seminar, October 8, 2008, Carnegie Mellon University, Pittsburgh, PA.

*A Probabilistic Model of the Immune System*, IGTC Summer School, May 22, 2008, University of British Columbia, Vancouver, BC.

*Layer Potentials*, Math 832: Partial Differential Equations II, May 9, 2007, Carnegie Mellon University, Pittsburgh, PA.

## Conferences and Workshops attended

Joint Mathematics Meeting, San Francisco, CA, January 13-16, 2010.

MBI Current Topic Workshop: Mathematical Developments Arising from Biology, The Ohio State University, Columbus, OH, November 8-10, 2009.

CNA Workshop on Course Design, Carnegie Mellon University, Pittsburgh, PA , Spring 2009.

IGTC Graduate Summer School in Mathematical Biology, University of British Columbia, Vancouver, BC, May 11- June 12, 2008.

## Teaching

**Carnegie Mellon University**, Pittsburgh, PA

### Teaching Assistant

21-111 Calculus I	Fall 2007, Spring 2009
21-112 Calculus II	Fall 2005
21-120 Differential and Integral Calculus	Fall 2008
21-121 Integration and Differential Equations	Fall 2006
21-123 Calculus of Approximation	Spring 2009
21-126 Introduction to Mathematical Software	Spring 2007
21-320 Symbolic Programming Methods	Summer 2006, Summer 2009

**Student Supervisor**, Academic Development Fall 2008 to Present

Supervise undergraduate student instructors who offer supplemental instruction for notoriously difficult courses.

Assist and teach 99-251, training course for new instructors.

Observe sessions and hold follow-up conferences with instructors.

Conduct interviews with potential instructors.

**Summit Instructor**, Racquetball Winter 2006, Winter 2007, Winter 2008

## Service

Co-Organizer, Graduate Student Seminar, 2009-Present, Carnegie Mellon University, Pittsburgh, PA.

President, Racquetball Club, 2006-08, Carnegie Mellon University, Pittsburgh, PA.

Representative, Graduate Student Assembly, 2006-2008, Carnegie Mellon University, Pittsburgh, PA.

## References

**Shlomo Ta'asan**, Professor, PhD advisor, [shlomo@andrew.cmu.edu](mailto:shlomo@andrew.cmu.edu)

**Deborah Brandon**, Associate Teaching Professor, [brandon@andrew.cmu.edu](mailto:brandon@andrew.cmu.edu)

**David Handron**, Assistant Teaching Professor, [handron@andrew.cmu.edu](mailto:handron@andrew.cmu.edu)

**David Kinderlehrer**, Alumni Professor of Mathematical Sciences, Professor of Materials Science and Engineering, [davidk@andrew.cmu.edu](mailto:davidk@andrew.cmu.edu)

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