

Wing L. Mui

Elm Lea Farm
418 Houghton Brook Rd.
Putney, VT 05346
wmui@putneyschool.org
www.winglmui.com

EDUCATION **University of Massachusetts, Amherst**, Amherst, MA.
M.S. in Mathematics, May 2007.
Amherst College, Amherst, MA.
B.A. *cum laude* in Mathematics, Theatre and Dance, May 2005.
Brooklyn Technical High School, Brooklyn, NY.
NYS Regents Diploma, BTHS Math-Science Institute Diploma, May 2001.

TEACHING **Mathematics Teacher**, The Putney School (2007 to Present)

- Year-long courses taught:
 - Algebra, 2007-2008
 - Calculus, 2007-2008
- Week-long courses taught:
 - Patterns and Mathematics in Traditional Folk Dances, Spring 2008
 - Computational Art with Processing, Fall 2007
- Additional duties:
 - Taught an evening arts course in computational and generative art and music.
 - Supervised the dance/music technical crew.

Teaching Assistant, UMass, Amherst Dept. of Mathematics (2005 to 2007)

- Courses taught:
 - Mathematical Skills for the Modern World (developmental mathematics), Fall 2006
 - Calculus for Life and Social Sciences I, Summer 2006
- Recitations taught:
 - Calculus I, Spring 2006
- Undergraduate courses graded:
 - Advanced Calculus
 - Fundamentals of Mathematical Thinking (introductory proof-writing)
 - Functions of Complex Variables
 - Honors Algebra I
 - Topics in Geometry I (non-Euclidean geometry)
 - Topics in Geometry II (introductory computational algebraic geometry)
- Gave multiple undergraduate talks for the university math club (see list of talks).

Junior Staff, Hampshire College Summer Studies in Math (2002, 2003, 2005, 2006)

- HCSSiM is a six-week residential program for mathematically talented high school students.
- Assisted in teaching three-week interactive workshops. Material covered include undergraduate level group theory, number theory, combinatorics, linear algebra, solid geometry and topology.
- Assisted in teaching three-week maxi courses:

- Origamitry (the mathematics of origami) w/ Thomas Hull (2002, 2005)
- Polytopes (convex geometry) w/ sarah-marie belcastro (2006)
- Probability Theory w/ David Kelly (2003)
- Developed and taught seven-day mini courses:
 - Algebraic and Combinatorial Topology (2006)
 - Non-Euclidean Geometry w/ A. Turner (2002) and T. Hull (2005)
 - Knot Theory (2002, 2003, 2005, 2006)
- Mentored daily problem sessions and guided student research.
- Gave multiple hour-long and ninety-minute talks and workshop (see list of talks).

Tutor, Amherst College Quantitative Skills Center (2004 to 2005)

- Tutored students in calculus and multivariable calculus.

Teaching Assistant, Amherst College Dept. of Mathematics (2001 to 2005)

- Assisted in the teaching of The Art of Mathematical Thinking, the first First Year Seminar offered by the mathematics department, through leading weekly problem sessions and lecturing during regular lectures.
- Graded the following courses: Calculus with Algebra, Calculus, Multivariable Calculus, Functions of a Complex Variable, Differential Equations.

Junior Teaching Assistant, CCNY Summer Scholars Program (2001)

- The City College of New York Summer Scholars program is a six-week program for high school students in the New York City area.
- Led daily problem sessions.
- Tutored students who had trouble with daily morning mathematics lectures.

TECHNOLOGY **Desktop Computing Support**, Amherst College Desktop Computing Services (2007)

- Set up multiple computer labs and supported admin transition to Office 2007.
- Researched and drafted portable academic data security software policies.
- Designed the web page and front-end for a new Listserv implementation.

Intern / Supervisor, Amherst College Desktop Computing Services (2001 to 2005)

- Taught courses on using design and animation software.
- Provided technical support for faculty and students in academic computing.
- Installed and provided support for classroom and lab software and equipment.
- Wrote instructional documents for equipment usage.

DEVELOPMENT **Anja S. Greer Conference on Mathematics, Science and Technology**

6/22/2008–6/27/2008, Phillips Exeter Academy, Exeter, NH

Viewpoints Mathematics and Art Reunion Conference

6/13/2008–6/14/2008, Franklin and Marshall College, Lancaster, PA

Emerging Technologies: Interactive Media and Neomillennial Learning Styles

12/11/2007, Belmont Hill School, Belmont, MA

Viewpoints Mathematics and Art Workshop

6/10/2007–6/15/2007, Franklin and Marshall College, Lancaster, PA

RESEARCH **An Introduction to Polynomial Knots**, 4/2005, Unpublished
Amherst College Undergraduate Thesis in Mathematics; Advisor: D. Cox.

Completing Polynomial Knots, 8/2004, Unpublished
Mt. Holyoke College REU Final Report; Advisors: A. Durfee, D. O'Shea.

TALKS **Patterns and Mathematics in Traditional Folk Dance**, 6/2008
Viewpoints Mathematics and Art Reunion Conference, Lancaster, PA.

The Lemmas of Burnside, Gauss and Zorn, 7/2007

Prime Time Theorems, Hampshire College Summer Studies in Mathematics.

Historical Japanese Armor and Plane Tiling, 2/2007

Undergraduate Math Club Talks, University of Massachusetts, Amherst

Taking a Sword to a Torus: An Introduction to Combinatorial Topology, 10/2006

Undergraduate Math Club Talks, University of Massachusetts, Amherst

Workshop: Contradancing and Group Theory, 8/2006

Hampshire College Summer Studies in Mathematics

Swords, Sweets and Sperner's Lemma, 8/2006

Prime Time Theorems, Hampshire College Summer Studies in Mathematics

The Hidden Mathematics of Contradancing, 4/2006

MAA Student Chapter Lectures, Amherst College.

Mathematics and Contradancing, 3/2006

Undergraduate Math Club Talks, University of Massachusetts, Amherst.

Gödel and the Yellow Pig, 8/2003, 7/2004, 8/2005

Prime Time Theorems, Hampshire College Summer Studies in Mathematics.

An Introduction to Polynomial Knots, 4/2005

Undergraduate Thesis Presentations, Amherst College.

Polynomial and Rational Knots, w/ Mt. Holyoke REU Group 2004, 8/2004

MathFest 2005, Providence, RI.

Knot Theory and Biology, w/ E. Bellenot, 8/2004

Mt. Holyoke College Summer Science Symposium, Mt. Holyoke College.

Cake-Cutting and the Fixed Point in Nebraska, 8/2002

Prime Time Theorems, Hampshire College Summer Studies in Mathematics.