

Erik R. Tou

Curriculum Vitae

Department of Mathematics
Carthage College
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EDUCATION

Dartmouth College

Ph.D. (Philosophiae Doctoris), Mathematics Spring 2007
A.M. (Artium Magistri), Mathematics Spring 2004

Gustavus Adolphus College

Bachelor of Arts, Mathematics, *Summa Cum Laude*. Minor: Philosophy. Spring 2002

TEACHING EXPERIENCE

Assistant Professor of Mathematics, Carthage College 2007 – Present

Instructor, Dartmouth College

Math 25: Number Theory Fall 2006
Math 13: Calculus of Vector-Valued Functions Spring 2006
Math 2: Calculus with Algebra and Trigonometry Winter 2005

Full responsibility for all course preparation and lectures, including textbook choice, creation and maintenance of course website, syllabus, homework and exam content, and determination of final grades.

Teaching Assistant, Dartmouth College

Math 3: Introduction to Calculus Fall 2003
Math 14: Calculus of Vector-Valued Functions, Honors Section Winter 2003
Math 8: Calculus of Functions of One and Several Variables Fall 2002

Led three tutorial/review sessions each week. Assisted students with homework, graded exams, provided office hours for individual help outside of tutorial sessions. Responsibilities also included technical assistance with any computer-based homework.

RESEARCH PROJECTS

Zeta Functions for a Class of Arithmetic Cocompact Subgroups of $SL(3, R)$ 22 May 2007

Ph.D. Thesis, Department of Mathematics, Dartmouth College.

Advisor: Dr. Dorothy I. Wallace

Residues of Generalized Binomial Coefficients Modulo Square-Free Integers

Spring 2002

Senior Thesis, Department of Mathematics and Computer Science, Gustavus Adolphus College.

Advisor: Dr. John M. Holte

PUBLICATIONS

Letters relating to a Theorem of Mr. Euler, of the Royal Academy of Sciences at Berlin, and F.R.S. for correcting the Aberrations in the Object-Glasses of refracting Telescopes

Translation from French. Available on the Euler Archive (<http://www.eulerarchive.org>) and the Math Archive (<http://www.arXiv.org>).

SELECTED PRESENTATIONS

A History of Riemann's Zeta Function on the Positive Integers

October 27, 2006

Keene State College Mathematics Seminar, Keene, New Hampshire

Measuring the Growth of Geodesic Lengths Associated to Selected Subgroups of $SL(3, R)$

October 1, 2006

Québec-Maine Number Theory Conference, Laval University, Québec.

Class Numbers of Quadratic Fields and the Primitive Geodesic Theorem

November 10, 2005

Number Theory Seminar, Department of Mathematics, Dartmouth College.

Hecke L-Series: Analytic Continuation and a Functional Equation

April 27, 2004

Number Theory Seminar, Department of Mathematics, Dartmouth College.

A Panorama of Zeta Functions

November 13, 2003

Number Theory Seminar, Department of Mathematics, Dartmouth College.

Residues of Generalized Binomial Coefficients Modulo a Product of Primes

May 2002

Gustavus Sigma Xi Research Symposium, Department of Mathematics, Gustavus Adolphus College.

AWARDS AND GRANTS

Dartmouth College

GAANN Fellowship

2005 – 2006

Dartmouth College Graduate Fellowship

2002 – 2005, 2006 – 2007

Phi Beta Kappa

Spring 2002

ADDITIONAL SKILLS

Foreign Languages: Reading proficiency in French

Mathematical Software: Maple, Mathematica, \LaTeX

Computer Skills: HTML, JavaScript

PROFESSIONAL ACTIVITIES

Member, *Euler Society* 2005 – Present

Member, *American Mathematical Society* 2003 – 2004; 2006 – Present

Member, *Mathematical Association of America* 2006 – Present

Chief Historian, *The Euler Archive*

The Euler Archive is an online collection of the original works of Leonhard Euler (1707-1783). Also included are descriptions of the majority of Euler's publications, historical background on the people and academies that featured in the life of Euler, and an extensive search capability.

Duties as historian include research into period journals, the St. Petersburg and Berlin academies, and biographical information. Also authored several survey pieces on people and places that featured prominently in the life of Euler.

Also provide HTML editing, web design, and proofreading services.

URL: <http://www.eulerarchive.org/>

REFERENCES

Dorothy Wallace
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 Dartmouth College
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