

Ryan C. Daileda

Contact Information

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Education

- Ph.D. in Mathematics, UCLA, June 2004
- B.S. in Mathematics with Honors (summa cum laude), University of Redlands, May 1999

Employment

- **Trinity University Mathematics Department**

Associate Professor, Fall 2010 - Present

Assistant Professor, Fall 2006 - Summer 2010

Conducted and directed research, taught courses in undergraduate mathematics, advised undergraduate senior projects, acted as academic advisor to incoming students and mathematics majors, and served on various committees. Courses taught include Calculus (all levels), Differential Equations, Introduction to Abstract Mathematics, Abstract Algebra, Number Theory (introductory and advanced), Putnam Exam Seminar, and Complex Analysis. Teaching responsibilities included developing course syllabi and materials, lecturing, writing and grading exams, coordinating with graders, and holding regular office hours. Directed six students in Trinity's REU (Research Experience for Undergraduates) during the summers of 2007 and 2008.

- **Dartmouth College Department of Mathematics**

John Wesley Young Mathematics Instructor, Summer 2004 - Summer 2006

Conducted research and taught courses in undergraduate and graduate mathematics. Courses taught include number theory, vector calculus, linear algebra, differential equations and a graduate level course in class field theory. Responsibilities included developing course syllabi, lecturing, writing and grading exams, coordinating with graders and teaching assistants, and holding regular office hours.

- **UCLA Department of Mathematics**

Fellow, Fall 2003 - Spring 2004

Conducted thesis research.

Teaching Assistant, Fall 1999 - Summer 2003

Led discussion sections for lower and upper division undergraduate and graduate courses including: introduction to programming, calculus (all levels), linear algebra, linear programming, abstract algebra and complex analysis. Duties included proctoring and grading exams, grading homework, as well as holding regular office hours and working in the Student Math Center.

- **University of Redlands Department of Mathematics**

Student Assistant, Fall 1997 - Spring 1999

Assisted students in all levels of mathematics in the department sponsored tutoring center.

Research Assistant, Summer 1998

Researched modelling wind driven subsurface currents in shallow seas.

- **University of Washington Department of Mathematics**

Research Assistant, Summer 1997

Participant in a summer REU (research experience for undergraduates). Researched resistor networks.

Research Interests

- Algebraic, Analytic and Combinatorial Number Theory

Ph.D. Thesis

- **Extremal class numbers of non-abelian number fields**

Research Articles

- **On the primitivity of Dirichlet characters**, preprint. Joint work with N. Jones.
- **Budding yeast, branching processes, and generalized Fibonacci numbers**, *Math. Mag.* **84** (2011), no. 3, 163–172. Joint work with P. Olofsson.
- **Maximal class numbers of CM number fields**, *J. Number Theory* **130** (2010), no. 4, 936–943. Joint work with R. Krishnamoorthy, A. Malyshev.
- **On the counting function for the generalized Niven numbers**, *J. Théor. Nombres Bordeaux* **21** (2009), no. 3, 503–515. Joint work with J. Jou, R. Lemke-Oliver, E. Rossolimo, E. Trevino.
- **Non-Abelian number fields with very large class numbers**, *Acta Arith.* **125** (2006), no. 3, 215–255.
- **Algebraic integers on the unit circle**, *J. Number Theory* **118** (2006), no. 2, 189–191.

Presentations

- 1/7/2012. **Making imprimitive characters behave primitively**
Presented at the Joint Mathematics Meetings 2012, Boston, Massachusetts.
- 3/25/10. **Maximal Class Numbers of CM Number Fields**
Presented at the 2010 Automorphic Forms Workshop, University of Hawaii at Manoa.
- 10/22/09. **Maximal Class Numbers of CM Number Fields**
Presented at the University of Mississippi Algebra and Number Theory Seminar.
- 10/20/09. **Factorization Beyond the Integers**
Presented to the Pi Mu Epsilon chapter of the University of Mississippi.
- 4/22/09. **Maximal Class Numbers of CM Number Fields**
Presented at the Texas A&M Number Theory Seminar.
- 9/14/06. **Arithmetic beyond the integers**
Presented at the Trinity University Mathematics Majors Seminar.

- 1/14/06. **Algebraic integers on the unit circle**
Presented at the Joint Mathematics Meetings 2006, San Antonio, Texas.
- 12/17/05. **Algebraic integers on the unit circle**
Presented at the West Coast Number Theory Conference 2005, Pacific Grove, California.
- 5/20/05. **Algebraic integers on the unit circle**
Presented at the Analytic Number Theory Conference 2005, Université Laval.
- 12/17/04. **Number fields with very large class groups**
Presented at the West Coast Number Theory Conference 2004, UNLV.
- 10/26/04. **Number fields with very large class groups**
Presented at the Five College Number Theory Seminar, Amherst College.
- 10/3/04. **Algebraic number fields with very large class numbers**
Presented at the Maine-Québec Number Theory Conference 2004, Université Laval.
- 3/24/04. **Zero density of L -functions and extreme class numbers**
Presented at the 2004 Automorphic Forms Workshop, UCSB.
- 1/22/04. **Zero density of L -functions and extreme class numbers**
Presented at the Texas A&M Number Theory Seminar.
- 12/5/03. **Zero density of L -functions and extreme class numbers**
Presented at the Seminar of Geometry and Arithmetic, UCSB.
- 12/1/03. **Zero density of L -functions and extreme class numbers**
Presented at the UCLA Number Theory Seminar.
- 10/29/02, 11/05/02. **Class numbers and zero density of L -functions**
Presented at the Beginning Research in Number Theory Seminar, UCLA.

Grants

- Trinity University Curriculum and Pedagogical Innovations Grant (Spring 2012)
- Trinity University Curriculum and Pedagogical Innovations Grant (Summer 2010)
- Trinity University Summer Stipend (Summer 2009)

Service

Trinity University

- Served as a peer reviewer for *American Mathematical Monthly* (Fall 2011).
- Served on the selection committee for the Semmes Distinguished Scholars in Science Award (Spring 2011).
- Served as a peer reviewer for *Proceedings of the American Mathematical Society* (Fall 2010).
- Served as a peer reviewer for *Acta Arithmetica* (Fall 2010).
- Served as a member of the Lecturers and Visiting Scholars Committee (2009–2011 academic years).
- Chaired the Lecturers and Visiting Scholars Committee (2008–2009 academic year).
- Served as a member on the Quantitative Reasoning and Natural Science and Technology Understandings Assessment Committee (2007–2008 academic year).

- Served as a senator on the Faculty Senate (Fall 2007).
- Chaired the Mathematics Department's ad hoc Committee on Curriculum Revision (Fall 2007).
- Served as faculty advisor to the Trinity University Mathematics Society (Fall 2006 to Fall 2008).
- Hosted weekly practice sessions for the Trinity University Putnam Mathematical Competition Team (Fall 2006, 2007).
- Served as a peer reviewer for *The Ramanujan Journal* (Fall 2006, 2007).

Awards and Honors

Trinity University

- John M. Bennett Junior Faculty Fellowship

UCLA

- Dissertation Year Fellowship
- Robert Sorgenfrey Distinguished Teaching Assistant Award

University of Redlands

- Mortar Board Student of the Semester
- Judson Sanderson Award
- Latin Honors, Summa Cum Laude

Memberships

- American Mathematical Society
- Mathematical Association of America
- Phi Beta Kappa