

**Education**

- **Vanderbilt University**, Nashville, TN  
PhD., Mathematics expected May 2011, GPA: 3.9.  
Supervisor: Alexander Olshanskii.
- **McMaster University**, Hamilton, ON  
M.Sc., Mathematics, 2004-2006, GPA: 3.9.  
Thesis title: Computations in Galois Cohomology and Hecke Algebras.  
Supervisor: Romyar Sharifi.
- **University of Hawaii at Manoa**, Honolulu, HI  
B.A., Mathematics, 2000-2003, GPA: 3.6.

**Teaching**

- **Vanderbilt University**, Math 150B Instructor, Fall 2008-present. Was the head instructor of Calculus class. Duties included lecturing three hours per week, holding office hours, writing and grading tests and quizzes and supervising a Teaching Assistant.
- **Vanderbilt University**, Teaching Assistant, Fall 2006 Fall 2007, Spring 2008. Helped instruct Calculus I class. Obtained average student satisfaction rating 4.39 out of 5.
- **McMaster University**, Teaching Assistant, 2004-2006. Prepared and led tutorials in Linear Algebra. As Head TA from 2005-2006, also oversaw and coordinated exam marking and proctors.
- **St. Andrews Priory**, Summer School Teacher, Honolulu, HI, 2003  
Taught Accelerated Introductory High School Algebra. Prepared lesson plans, exams, and activities; managed classroom.
- **University of Hawaii Mathematics Department**, Calculus Tutor, 2002-2004. Demonstrated and explained mathematical principles to students and aided with homework assignments; managed the tutoring room.
- **University of Hawaii English Department**, Teaching Assistant, 2002-2003. Received substantial training in composition pedagogy. Assisted in teaching English 101; tutored small groups of remedial English students.

**Scholarships**

- **STEM Teaching as Research Award**, Vanderebilt University and CIRTLL award from NSA, 09/08-12/08
- **Teaching Assistantship**, Vanderbilt University, 2006-present
- **Research Scholarship**, Vanderbilt University, 2006-present
- **Teaching Assistantship**, McMaster University, 2004-2006
- **Research Scholarship**, McMaster University, 2004-2006

**Talks Given**

- **Sudoku**, Undergraduate Student Seminar, Vanderbilt University, Spring 2008.
- **Infinity**, Undergraduate Student Seminar, Vanderbilt University, Fall 2007.
- **A Construction of the Real Numbers**, Undergraduate Student Seminar,

Vanderbilt University, Spring 2007.

- **Group Theory**, Undergraduate Student Seminar, Vanderbilt University, Fall 2006.
- **Classification of Finite Simple Groups**, Graduate Student Seminar, McMaster University, Spring 2005.
- **Elliptic Curves**, Graduate Student Seminar, McMaster University, Fall 2004.
- **The Fundamental Theorem of Algebra**, Undergraduate Seminar, University of Hawaii, Fall 2003.

**Seminars Attended**

- **Topology and Group Theory Seminar**, Vanderbilt University, 2006-present
- **Department Colloquium**, Vanderbilt University, 2006-present
- **Mathematics Education Forum**, Fields Institute, Fall 2005
- **Arithmetic Geometry Seminar**, McMaster University, 2004-2006
- **Graduate Student Seminar**, McMaster University, 2004-2005
- **Department Colloquium**, McMaster University, 2004-2006
- **Undergraduate Seminar**, University of Hawaii, 2002-2004

**Membership**

- Mathematical Association of America
- American Mathematical Society

**Volunteer Work**

- **American Women in Mathematics**, Serve as a mentor as part of the AWM Mentor Network, March 2008–present.
- **Vanderbilt University Mathematics Department**, Co-organized Undergraduate Student Seminar: helped arrange for funding, speakers and all logistics of the seminar, September 2007-present.
- **Vanderbilt University Mathematics Department**, Computer Liaison Committee Member: created and maintain an online database of information relevant for graduate students, September 2007-present.
- **Better Tomorrows**, Reading tutor for illiterate adults, Nashville, TN, September 2007-June 2008.
- **McMaster University Mathematics Department**, Mathematics Department Liaison Committee Member, Hamilton, ON, 2005-2006.
- **McMaster University**, Helped write the Handbook for LTS All-Science Challenge, Hamilton, ON, April 2006.
- **Hamilton Literacy Council**, Reading tutor for illiterate adults, Hamilton, ON, 2005-2006.
- **Habitat for Humanity**, Construction Volunteer, Dodoma, Tanzania, 2002.
- **Queen Kaahumanu Elementary School**, English as a second language tutor, Honolulu, HI, 1999.

**Personal**

- Home address: 2822 Blair Blvd., Nashville, TN 37212 USA
- Phone number: (615) 496-0953
- E-mail address: tara.c.davis@vanderbilt.edu
- Citizenship: USA
- Language skills: Speak French proficiently, some Japanese
- Computer skills: Magma, Latex