

# Curriculum Vitae

Joy D'Andrea

January 17, 2012

Department of Mathematics  
University of South Florida  
4202 East Fowler Ave  
Tampa, FL 33620

Office: (813) 974-1324  
Mobile: (941) 467-5858  
Email: jdandrea@mail.usf.edu

## Education

- Currently enrolled in the PhD Mathematics Program at USF.
- M.A. Mathematics, USF, Spring 2011.
  - *Master's Thesis*: Fundamental Transversals on the Complexes of Polyhedra.
  - *Committee*: Dr. Gregory L McColm, Dr. Richard Stark, and Dr. Fred Zerla
- B.A. Mathematics, USF, Fall 2007.
- A.A. Mathematics, *Summa Cum Laude*, State College of Florida, Spring 2004.
- Massage Therapist Diploma, Port Charlotte School of Massage Therapy, Fall 2003.
- High School Diploma, Ideal High School, Summer 1994.

## Employment

- Adjunct Professor, Department of Mathematics, Polk State College, June 2011 - present. I have taught undergraduate mathematics courses for the freshman level of College. The courses I have taught are MAT 1033 Intermediate Algebra, and MAC 1105 College Algebra.
- Graduate Teaching Assistant, Department of Mathematics, University of South Florida, August 2008 - present. Was a graduate teaching assistant for College Algebra, Liberal Arts Math, Finite Math, Pre-calculus and Trigonometry, Life Science Calculus in the past 3 years. Prepared lesson plans for the help sessions, encouraged students to be active in their learning process by offering them chances to come to the board and do problems. Reenforced the new material the students learned in their main lecture class, answered any questions about their homework assignments or issues with the material. Made the necessary quizzes that would test the student's knowledge of the concepts presented in their main lectures. Graded and recorded quizzes, tests, homework, and final grades for some of the help sessions. Had regularly scheduled office hours for students to come to and ask questions or get assistance. Proctored exams and final examinations for the main lecture classes.
- Mathematics Tutor, Academic Resource Center, State College of Florida, Jan 2004 - August 2005. Assisted students with questions on their homework assignments and class notes. Provided assistance with math-related software for their computer assignments.
- Computer Tutor, Academic Resource Center, State College of Florida, Summer 2003, 2004, 2005. Assisted students with computer related homework questions. Helped students taking Web - page development classes learn HTML language.
- Bookstore Clerk, Bookstore Venice Campus, State College of Florida Jan 2003 - May 2004. Stocked shelves with course textbooks, cash handling duties, made the schedule for part - time students.
- Aerobics Instructor / Personal Trainer / Front Desk, Gold's Gym, Venice, Florida, April 2000 - May 2002. Taught low - impact step aerobics with special stretching and abdominal exercises included. Trained clients to workout correctly and injury free daily, weekly, and monthly. Answered the phone and answered questions about the facility, directed clients to specific areas of exercise areas. Provided tours of the facility.
- Aerobics Instructor, La Palestra Health Club of Englewood, October 1995- April 2000. Taught low - impact step and water aerobics with special stretching and abdominal exercises included.

## Mathematical Research Area Interests

- Crystallography
- Abstract Algebra
- Linear Algebra
- Graph Theory
- Economic Game Theory
- Applied Statistics

## Other Research Area Interests

- Social Foundation of Education
- Metaphysics
- Natural Philosophy

## Conference and Seminar Presentations

- Discrete Mathematics Seminar, USF, November 28, 2011. ‘A Re- Visitation of Frucht’s Theorem for the Digraph Factorial.’
- Discrete Mathematics Seminar, USF, April 26, 2010. ‘Graph Transversals and Transversals of Faces.’
- 6th Annual Graduate Students Combinatorics Conference, Auburn University, Alabama, April 4, 2010. ‘Portraits of Transversal Domains.’
- Forty First Southeastern International Conference on Combinatorics, Graph Theory, and Computing, FAU, Boca Raton FL, March 11, 2010. ‘Transversal Domains on the CW-Complexes of Polyhedra.’
- Joint Annual Meetings, MAA Florida Section and FTYCMA, Santa Fe College, February 19, 2010.
- Discrete Mathematics Seminar, USF, December 1, 2008. ‘Representation of algebraic groups by simple graphs.’

## Professional Activities

- Member, MAA.
- Member, GAU, *Mathematics Department Steward*, January 2012 - present.

## TA - Ships, Honors and Awards

- Teaching Assistantship, University of South Florida, 2008, 2009, 2010, 2011.
- Gulf Coast Community Foundation of Venice Scholarship for Arts and Sciences Student, Venice FL, Summer 2009.
- Gulf Coast Community Foundation of Venice Scholarship for Arts and Sciences Student, Venice FL, Summer 2008.
- Pi Mu Epsilon President, Chapter at University of South Florida, Spring 2009
- Pi Mu Epsilon Vice - President, Chapter at University of South Florida, Spring 2008.
- Pi Mu Epsilon Induction, University of South Florida, Spring 2007.
- Gulf Coast Community Foundation of Venice Scholarship for Arts and Sciences Student, Venice FL, Summer 2007.
- Mathematics Olympics Competition, First Place Team Competition Small College Division, University of North Florida, Spring 2007.
- Honor Award for Team Member, State College of Florida, Spring 2007.
- Mathematics Olympics Competition, First Place Team Competition Small College Division, University of North Florida, Spring 2006.
- Honor Award for Team Member, State College of Florida, Spring 2006.
- Student Ambassador Award, State College of Florida, Spring 2006.
- Gulf Coast Community Foundation of Venice Scholarship for Arts and Sciences Student, Venice FL, Summer 2006.
- Mathematics Olympics Competition, First Place Team Competition Small College Division, University of North Florida, Spring 2005.
- Brunch on the Bay Scholarship, USF, Sarasota FL, Fall 2005.

- Dean's List, University of South Florida, 2005-2006.
- Dean's List, State College of Florida, 2003-2004.
- Honor Student of the Year, Ideal High School, Summer 1994.
- Top Academic Performance Student of the Month, Ideal High School, October, November, December, 1993, February 1994.

## Hobbies

- Playing Chopin Songs
- Walking
- Black and White Photography
- Listening to Motown Music
- Writing Poetry, I have written and self-published 6 poetry books.  
<http://stores.lulu.com/jmdandrea>