

# ANNA BANANA

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## EDUCATION

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**The University of the South**, Sewanee, TN

*Bachelor of Arts expected May 2011*

- Major: Mathematics; Minors: Computer Science and Music
- GPA: 3.88; Class Rank: 16 (95 percentile).
- Dean's List: *last five semesters, requiring a GPA of 3.26*
- Order of Gownsmen, the University academic honor society, inducted 2008

## RELEVANT EXPERIENCE

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*Mathematical Sciences Research Institute Undergraduate Program, MSRI*, Berkeley, CA

*Summer 2010*

- Completed group research project exploring elliptic curve cryptography using SAGE and Mathematica software programs; also used, LaTeX, Beamer, Beamerposter, and Maple.
- Presented poster at the Society for the Advancement of Chicanos and Native Americans' conference held in Anaheim, CA in Sep. 2010

*Undergraduate Mathematics Science Research Institute, Miami University*, Oxford, OH

*Summer 2009*

- Completed short courses in Abstract Algebra, Real Analysis, and Technical Writing
- As a member of the Discrete Mathematics group, participated in research on linear chromatic coloring of graphs and completion of research paper detailing results
- Presented results with group members at the National Association of Mathematician's undergraduate conference held at University of the District of Columbia in Nov. 2009  
Also, presented poster at the MAA/AMS joint meetings in San Francisco, Jan. 2010
- Paper can be found at: <http://www.units.muohio.edu/>

*Independent Study Research, The University of the South, Mathematics Dept.*, Sewanee TN  
*Spring Semester 2009*

- Designed and initiated follow up project, entitled "Mathematically Generated Fife tunes," for Mathematical Modeling class (Math 332). Project inspired by Harry F. Olson's work using Markov chains to generate music in the style of Stephen Foster
- Presented results at Sewanee-Rhodes-Hendrix Math Symposium, hosted by Hendrix College, in Conway, AK, Apr. 2009. Presented poster of results at Scholarship Sewanee in Apr. 2009
- Poster and further information can be found at: <http://dspace.nitle.org/>

*Mathematics Tutor, University of the South, Mathematics Department*, Sewanee TN

*Sept. 2009-Present*

- Group and individual tutoring sessions for Finite Math, Calc. I, and Calc. II students as well as occasionally for other classes including linear algebra and multivariable calculus

*Residential Computer Consultant, University Residential Life*, Sewanee, TN,

*Aug. 2009-May 2010*

- Provided ongoing trouble-shooting and general computer assistance for dorm residents

*Private Math Tutor, high school algebra*, Sewanee, TN

*Sept. 2008-Dec. 2008*

- Cultivated basic problem solving and mathematical techniques; promoted good study habits

*Mentor, Bridge Summer Program for Math and Science*, Sewanee, TN

*June 2008*

- Tutored students in mathematical concepts with a focus on fostering creativity and interest.
- Supervised and coordinated group activities for students; enforced dorm policies

## ACTIVITIES

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University Orchestra Violinist:

- Will be featured soloist November concert, 2010. Assistant concert master 2009, associate concert master 2008-2009, and assistant principle second 2007

Assistant Proctor, **University of the South, Residential Life**, Sewanee, TN

Aug. 2008-May. 2009

- Enforced University policies within the residence hall.
- Coordinated with faculty advisors and dorm staff to create stimulating activities for Humanities first-year Living and Learning Community.

Volunteering:

- Usher , University Performing Arts Series 2007-Present; Cause for Paws animal shelter visits 2007-2008

Work Study, **Serials Department for Dupont Library**, Sewanee, TN

Aug. 2007-Present

- Processed incoming newspapers, periodicals, and government documents.

## AWARDS

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- First place for research poster on .... (topic)presented at Scholarship Sewanee (undergraduate research fair), The University of the South, 2009
- Bob Coombs Memorial Scholarship: outstanding candidate for transfer to a four year college pursuing the goal of becoming a teacher of mathematics, Santa Rosa Junior College, 2007
- California Mathematics Council Community Colleges Foundation Scholarship: outstanding achievement in mathematics as a student in the SRJC Mathematics Department, 2006
- Received Dean's highest honors at SRJC during *fall and spring semesters of 2006*
- Pathways Charter high school - Graduated as valedictorian in 2006

## RELEVANT COURSEWORK

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**Mathematics:** GPA in Mathematics at Sewanee: 3.92

Currently enrolled in Real Analysis I and Abstract Algebra I.

Functions of a complex variable

Probability and Statistics II

Probability and Statistics I

Topology

Mathematical Modeling II (Independent Study)

History of Mathematics

Mathematical Modeling

Linear Algebra

Discrete Mathematics

Calculus IV: Differential Equations

Calculus III: Multivariable Calculus

Calculus II

Calculus I

**Computer Science:** GPA in Computer Science: 4.00

Currently enrolled in Sound Thinking: Integrating Music and Computer Science (Independent Study)

Artificial Intelligence

Computer Organization

Analysis of Algorithms

Data Structures

Introduction to Programming