

Samuel Fleischer

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EDUCATION

UC DAVIS

PHD IN APPLIED MATHEMATICS

Expected May 2020 | Davis, CA

Graduate GPA: N/A

CSU NORTHRIDGE

BS IN MATHEMATICS

Expected May 2015 | Northridge, CA

Cumulative GPA: 3.65

Upper Division GPA: 3.98

LINKS

Github:// mathman33

LinkedIn:// FleischerSamuel

COURSEWORK

GRADUATE

N/A

UNDERGRADUATE

Ordinary Differential Equations

Partial Differential Equations

Independent Study (Stochastic Processes)

Mathematical Modeling with Mathematica

Scientific Computing with Python

Advanced Calculus

Foundations of Higher Mathematics

Numerical Analysis

Complex Variables

Advanced Linear Algebra

Undergraduate Seminar (Set Theory)

Abstract Algebra (I/II)

Probability Theory

(Grader)

Mathematical Modeling with MatLab

SKILLS

- Extreme passion for mathematics research and applications
- Excellent written and oral communication skills
- Exceptional proficiency in Python, Mathematica, \LaTeX , Unix, Git(Hub), C, and Microsoft Office applications
- Exemplary analytical and problem solving skills, and the ability to apply them to real-world situations
- Extensive ability to multitask
- Detail oriented, self starting, hard working, flexible, and personable

EXPERIENCE

NASA, JPL | SUMMER INTERN

June 2014 – Aug 2014 | Pasadena, CA

- Assigned to develop software enhancing and refining the Cassini spacecraft software system testing process
- Achieved a 90% reduction in discreet testing programs resulting in a 60% decrease in total testing time

NASA, JPL | SOFTWARE COMPUTING SYSTEMS UNDERGRAD. STUDENT

Sept 2014 – Present | Pasadena, CA

- Selected by Cassini management to continue successes achieved during the summer internship
- Enhanced integration of software development and testing teams, saving crucial engineering resources
- Created automatic generation of vital test artifacts, increasing efficiency, greatly reducing potential for human error

SELF EMPLOYED | PRIVATE MATHEMATICS TUTOR

Jan 2007 - Present | Valencia, CA

- 90% of students increased their scores by one or more letter grades
- 100% of new clients are referrals from current students and their parents

RESEARCH & PUBLIC PRESENTATIONS

PACIFIC MATH ALLIANCE | PUMP UNDERGRADUATE RESEARCH GROUPS

Aug 2014 – Present | CSU Northridge

- Research/Develop eco-evolutionary feedback models
- Develop Python tools to study bifurcation values
- Weekly explicit calculations and computational experiments

PACIFIC COAST UNDERGRADUATE MATHEMATICS CONFERENCE | STUDENT TALK SESSION

Mar 14, 2015 | Cal Lutheran

The Ecological Effects of Trait Variation in a u -Predator, v -Prey System"

ACADEMIC ENDEAVORS

RECENT HONOR ROLL / DEAN'S LIST

Fall 2014	3.9 GPA	CSU Northridge
Spring 2014	4.0 GPA	CSU Northridge
Fall 2013	4.0 GPA	CSU Northridge

SOCIETIES

MATADOR MATH SOCIETY | VICE PRESIDENT

Dec 2013 – Present | CSU Northridge

- Assists the president with various duties, schedules colloquiums and meetings
- Oversees the design and printing of marketing and promotional materials

ASSOCIATION FOR WOMEN IN MATHEMATICS | MEMBER

Nov 2014 - Present