

# Samuel Fleischer

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## EDUCATION

### UC DAVIS

#### PHD IN APPLIED MATHEMATICS

Expected May 2020 | Davis, CA  
Graduate Level 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

Applied Mathematics  
Applied Analysis  
TA Training

### 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

## SKILLS

- Extreme passion for mathematics research and applications
- Excellent written and oral communication skills
- Exceptional proficiency in Python, Mathematica,  $\text{\LaTeX}$ , 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 | SOFTWARE COMPUTING SYSTEMS UNDERGRAD. STUDENT

June 2014 – Sept 2015 | Pasadena, CA

- Found and corrected several errors in the implementation of a thermal model of Saturn and its Rings
- Developed software enhancing and refining the Cassini ground software system testing process
- Created automatic generation of vital test artifacts, increasing efficiency, greatly reducing potential for human error

### SELF EMPLOYED | PRIVATE MATHEMATICS TUTOR

Jan 2007 - Present | Davis, 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 – May 2015 | CSU Northridge

- Research/Develop eco-evolutionary ODE models
- Develop Python tools to study bifurcations and dynamics
- Weekly explicit calculations and computational experiments

### SEVENTEENTH ANNUAL SIGMA XI STUDENT RESEARCH SYMPOSIUM | CSUN CHAPTER OF SIGMA XI

May 1, 2015 | CSU Northridge

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

- Session II, 3rd place

### 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

Spring Semester 2015	4.0 GPA	CSU Northridge
Fall Semester 2014	3.9 GPA	CSU Northridge
Spring Semester 2014	4.0 GPA	CSU Northridge
Fall Semester 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