

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, \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

SEBASTIAN SCHREIBER LAB | GRADUATE STUDENT RESEARCHER

Sept 2015 - Present | UC Davis

- Research various topics in Evolution, Ecology, and Mathematics
- Weekly discussions on 2-3 academic publications in related fields
- Develop models and experiments, perform calculations and utilize computational methods

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

SIGMA XI STUDENT RESEARCH SYMPOSIUM | CSUN CHAPTER

May 1, 2015 | CSU Northridge

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

- Session II, 3rd place

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 – May 2015 | 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