

Samuel Fleischer

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EDUCATION

UC DAVIS

PHD IN APPLIED MATHEMATICS

Expected May 2020 | Davis, CA
Graduate Level GPA: 4.0

CSU NORTHRIDGE

BS IN MATHEMATICS, CUM LAUDE

May 22, 2015 | Northridge, CA
Campus (Upper-Div) GPA: 3.98

LINKS

Github:// [mathman33](#)
LinkedIn:// [FleischerSamuel](#)

COURSEWORK

GRADUATE

Applied Mathematics
Applied Analysis
TA Training
Theoretical Ecology

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

UC DAVIS | TEACHING ASSISTANT

Sept 2015 - Present | Davis, CA

- Fall Quarter 2015, Lower Division Calculus (4.62/5.0 Average Student Review)
- Winter Quarter 2016, Lower Division Linear Algebra Lab

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

SEBASTIAN SCHREIBER LAB | GRADUATE STUDENT RESEARCHER

Sept 2015 - Present | UC Davis

- Research various topics in Evolution, Ecology, and Applied 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

ACADEMIC ACHIEVEMENTS AND AWARDS

OUTSTANDING GRADUATING SENIOR

- CSU Northridge Mathematics Department - May 2015

SOCIETIES

MATADOR MATH SOCIETY | VICE PRESIDENT

Dec 2013 - May 2015 | CSU Northridge

- Assisted president by scheduling colloquiums and meetings
- Oversaw the design and printing of marketing and promotional materials

ASSOCIATION FOR WOMEN IN MATHEMATICS | MEMBER

Nov 2014 - Present

GALOIS GROUP | MEMBER

Sept 2015 - Present | UC Davis