Samuel Fleischer

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EDUCATION

UC DAVIS

PHD IN APPLIED MATHEMATICS Expected May 2020 | Davis, CA

CSU NORTHRIDGE

BS IN MATHEMATICS
May 22, 2015 | Northridge, CA

LINKS

Github:// mathman33 LinkedIn:// FleischerSamuel

COURSEWORK

GRADUATE

Applied Mathematics (3 quarters)
Applied Analysis (3 quarters)
Genetics and Evolution
Mathematical Foundations of Big Data
Numerical Solutions of Differential Eqns.
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 (2 semesters)
Probability Theory

SKILLS

- Extreme passion for mathematics research and applications
- Excellent written and oral communication skills
- Exceptional proficiency in Python, MATLAB, Mathematica, C, 上X, Unix, Git(Hub), 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

- Linear Algebra Lab and Calculus (4.5/5.0 Avg. Student Review)
- UC Davis COSMOS: Guided highschool students design and construct Lego Mindstorm robots and code instructions using RobotC

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

RESEARCH

SEBASTIAN SCHREIBER LAB | GRADUATE STUDENT RESEARCHER Sept 2015 - Present | UC Davis

- Researches various topics in the Applied Mathematical Sciences, specifically Evolution, Ecology, Parasitology, and Epidemiology
- Attends (and occasionally leads) weekly discussions on academic publications
- Develops mathematical models and experiments, performs calculations, and utilizes and improves computational methods
- Develops command line tools (using Python) which automate the creation of relevant graphs to streamline the numerical study of bifurcations and dynamics

PACIFIC MATH ALLIANCE | PUMP UNDERGRADUATE RESEARCH GROUPS Aug 2014 - May 2015 | CSU Northridge

ag 2014 May 2013 | 630 Northhage

- Research/Develop eco-evolutionary ODE models
- Weekly explicit calculations and computational experiments

SOCIETIES AND VOLUNTEER WORK

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 | SECRETARY

Nov 2015 - Present | UC Davis

- Assisted in the creation and organization of the UCD Chapter of A.W.M.
- Collaborates with groups on campus to raise awareness of resources for minorities

SOCIETY FOR INDUSTRIAL AND APPL. MATHEM. | VICE PRESIDENT

June 2016 - Present | UC Davis

• Invites scientists, mathematicians, and engineers from outside academia to give talks to UCD graduate students in mathematics and other STEM fields

STEM CAFE | Volunteer Tutor

Sept 2016 - Present | UC Davis

• Provides free math tutoring and a safe space for all undergraduate minorities

CAREER DAY | VOLUNTEER SPEAKER

Oct 2016 - Present | Madison Park Business and Arts Academy

• Shared my experiences as a NASA employee and a mathematics graduate student to under-represented and under-priveleged junior-high and high-school students