William Wang

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Education	**Rutgers University**, School of Arts and Sciences	New Brunswick, NJ
	Bachelor of Science, Mathematics + Computer Science	May 2023
	Cumulative GPA: **3.89** / 4.0	

Selected Coursework

Data Structures	Comp. Architecture	Numerical Analysis	Combinatorics
Probability Theory	Theory of Statistics	Ordinary Diff Eqs.	Calculus I-III

Achievements

Online Encyclopedia of Integer Sequences (OEIS)
Contributor

- Discovered and published a new integer sequence in the OEIS (A339390)
- Contributed new interpretations to two previously published sequences (A2898 and A208425)

Projects

3-D Lattice Paths
Project Leader   Nov-Dec 2020

- Under Professor Doron Zeilberger, researched the number of paths from (0,0,0) to (n,n,n) using various sets of acceptable steps using Maple
- Discovered new integer sequences and new interpretations to previously known integer sequences
- Found linear recurrence formulas/generating functions for such sequences, and analyzed their long-term behaviors, e.g. asymptotics, critical exponents

Polynomial Operations   February 2020

- Built a Java program that can add and multiply polynomials together, at specific values through text file input

Experience

Rutgers University - NB Mathematics Department
Undergraduate Grader/Teaching Assistant   Spring 2021

- Graded student assignments for Elementary Differential Equations

Taiwan Summer English Camp   Taoyuan, Taiwan
Summer English Teacher   July 2016, 2017, 2019

- Taught English to Taiwanese primary and secondary school students at a summer camp at **Yuan Ze University** over six weeks in collaboration with local university students
- Designed new English curriculum every year over a three-month period prior to each trip alongside 10-20 other US high school and college students

Clubs

Undergraduate Association of Computer Scientists (USACS)
Member   September 2019 -

Rutgers Quantitative Finance Club (QFC)
Member   February 2020 -

Skills

Java, **Python**, C, **Maple** (math software), MATLAB, HTML/CSS, LaTeX