

## KIMBERLY HOWARD

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### SUMMARY

Enthusiastic Middle School Math Teacher with a background in applied mathematics and statistics ready to create a welcoming atmosphere for students that promotes the growth mindset. Prepares lesson plans that can be adjusted to best accommodate each student in the classroom and address their specific needs.

### EDUCATION

#### KENNESAW STATE UNIVERSITY

- **B.S. in Computational and Applied Mathematics** May, 2020
- **GPA:** 3.96 (Summa Cum Laude)
- **Relevant Courses:** College Algebra, Pre-Calculus, Calculus I-IV, Ordinary Differential Equations, Linear Algebra I and II, Introduction to Logic, Sets and Proofs, Enumerative Combinatorics, Modern Algebra I, Graph Theory, Real Analysis I and II, Elementary Number Theory, Probability and Data Analysis, Probability and Inference, Computer Applications of Statistics, Statistical Methods I and II, and Topics in Regression, Programming Principles I, Numerical Methods, and Physics I and II
- **Honors:** Pi Mu Epsilon National Honorary Mathematics Society  
President's List: Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020  
Dean's List: Spring 2017

### EXPERIENCE

#### ATLANTA JEWISH ACADEMY

Middle School Mathematics Teacher: August 2021 – Present

- Taught accelerated mathematics track for 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> grade students.
- Taught on-level mathematics track for 8<sup>th</sup> grade students.
- Subjects taught included General Mathematics, Pre-Algebra, and Algebra 1.
- Co-taught Keshet sessions that allow students to express themselves in their community through discussions and activities
- Co-taught a computer science elective that allowed students to learn about Python 3 coding language and utilized python to create a Tic Tac Toe game.

#### BEN PORAT YOSEF

Advanced Middle School Mathematics Teacher: August 2020 – June 2021

- Taught advanced mathematics track for 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade students.
- Subjects taught included General Mathematics, Pre-Algebra, and Algebra 1.
- Held learning center sessions for students at school who needed special attention.
- Created an elective course, called "Math Fun", for middle school students where students learned how to solve certain logic puzzles and discover how much fun logic and math can be.

### TUTORING

MaThCliX Tutor: May – July 2018

- Facilitated students between grade school to early college level during the summer program.
- Used manipulatives and created worksheets to help build each student's understanding in mathematics.

Independent Tutor: September 2019 – March 2020

- Aided between one and two college level students a few hours per week each semester.
- The topics expedited include Probability and Inference, Geometry, College Algebra, Linear Algebra I, and Calculus IV.

## **KENNESAW STATE UNIVERSITY**

Supplemental Instructor: January 2018 – May 2020

- Worked along with a class each semester and held various sessions each week for the students in the class.
- The subjects I worked with include Calculus III, Ordinary Differential Equations, and Linear Algebra I.
- Succeeded a role on the Leadership Team for the last three semesters that I occupied the position.

Published Paper 'Existence of multiple solutions to a discrete boundary value problem with mixed periodic boundary conditions': October 2019 – February 2020

- This paper shows a second order mixed periodic boundary value problem can admit multiple solutions. I made use of difference equations and operated MATLAB to generate the applications of my result.
- Outcome: Howard, K., Wang, L., Wang, M., 'Existence of multiple solutions to a discrete boundary value problem with mixed periodic boundary conditions'.

Data-Driven Highway Incident Detection: January – April 2019

- Appropriated MATLAB to create two algorithms that would detect when traffic incidents occur on the highway and compared these algorithms to find the more optimal way to detect the incidents.

A Data-Driven Stochastic Bike Share Station Inventory Model: August – October 2019

- Modeled the changes in various bike share station inventories using a Markov Process.
- Presented my work with a poster presentation at the 2019 Joint ATD+AMPS Workshop at George Washington University in Washington DC, Virginia.

Statistical Programmer (In-class): January 2018 – May 2020

- Utilized SAS, R, Python, Minitab, and Microsoft Excel to perform quantitative and categorical analysis on data.
- Created multiple reports on the analyzed data.

JavaScript Programmer: January 2017 – May 2017

- Trained how to use Java in Programming Principles I to create some elementary programs.
- Observed how Java can be used to find probabilistic behavior in markets through my father's program that he makes use of on his Facebook page 'Smart Ideas for Early Retirement'.

## **COMPUTER SKILLS**

MATLAB, SAS, R, Python, JavaScript, Minitab, Overleaf, Microsoft Excel, PowerPoint, and Microsoft Word