

Kevin Huynh '21

Data-Driven Change



**WESTTOWN
SCHOOL**

Kevin Huynh

Senior

Ho Chi Minh City, Vietnam

Entered Westtown in 2018

Certificate in Data-Driven Change



Personal Statement

As a new student at Westtown school, I was inspired and became interested in biology and chemistry as well as data manipulations from my classes such as Biology 1 and 2. Furthermore, as I focused on advancing along the curriculum, I found myself more involved with doing scientific researches and participating into mathematical modeling competitions, especially in more advanced science and math classes such as Anatomy and Physiology and differential Equations.

Course Work Required for the Certificate

Certificate Courses Taken Junior Year

- Chemical Reactions
- Chemical Bonding
- Anatomy and Physiology
- Evolution
- Calculus 2

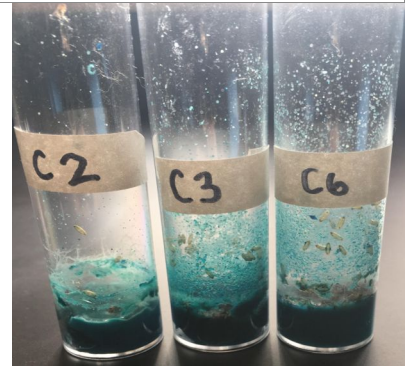
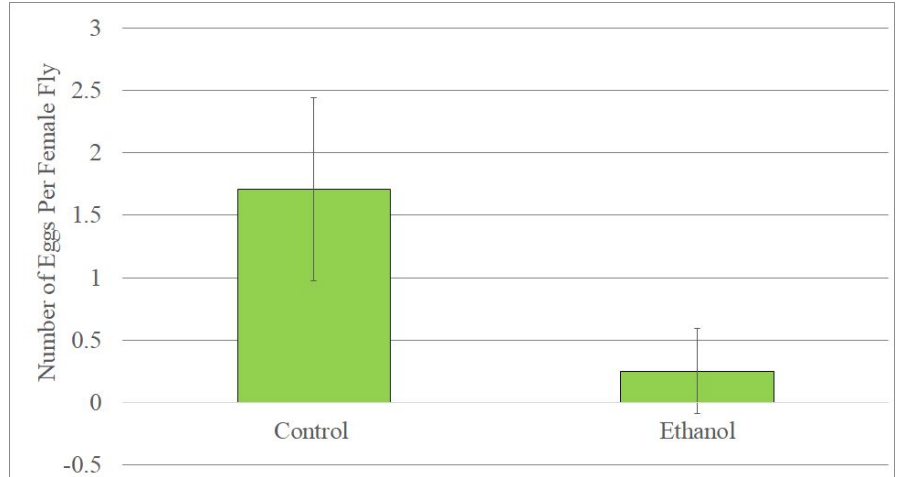
Certificate Courses Taken Senior Year

- Linear Algebra
- Differential Equation
- Scientific Research
- (Multivariable Calculus)

Project Work Required for the Certificate: 1

Title: The effects of ethanol on the fecundity of *Drosophila melanogaster* - Research Paper

Description: I conducted an experiment to measure Fruit flies' reproductive rates when they are exposed to an ethanol solution. Afterwards, I ran a statistical test on my recordings to see if the results are statistically significant.

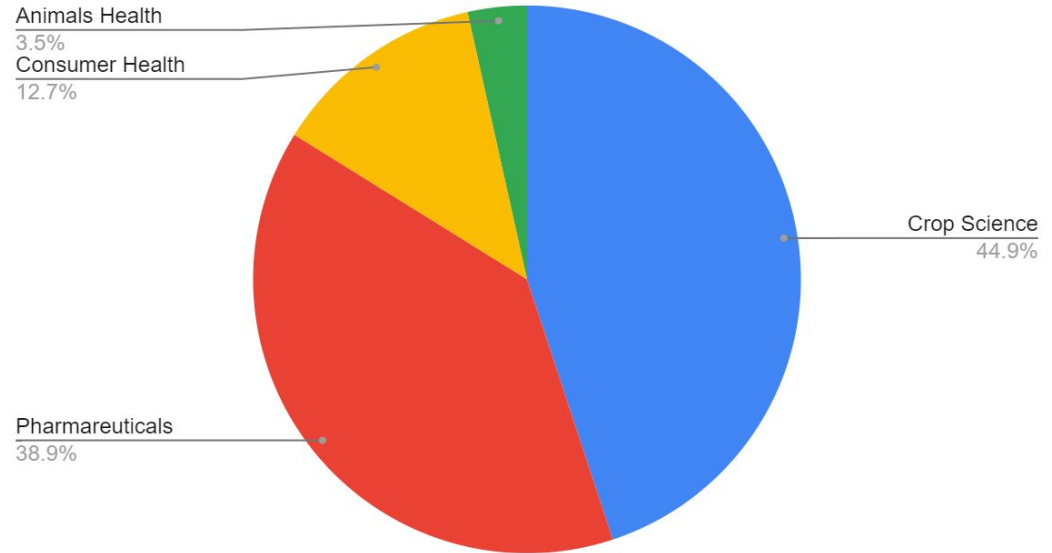


Project Work Required for the Certificate: 2

Title: Research the economics of chemical engineering companies

Descriptions: I researched the sales, production costs and, main products of Bayer, a major global chemical engineering company, to inform peers of different economic methods and plans of the company

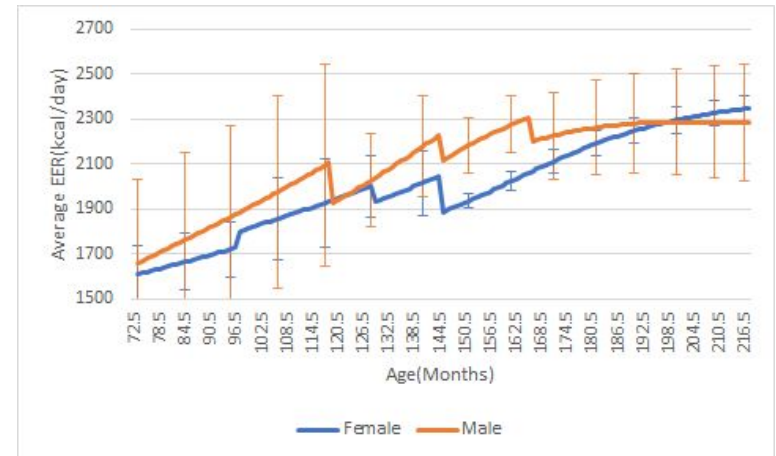
Net Sales by Segments (2018)



Project Work Required for the Certificate: 3

Title: Calculus 2 Final Project

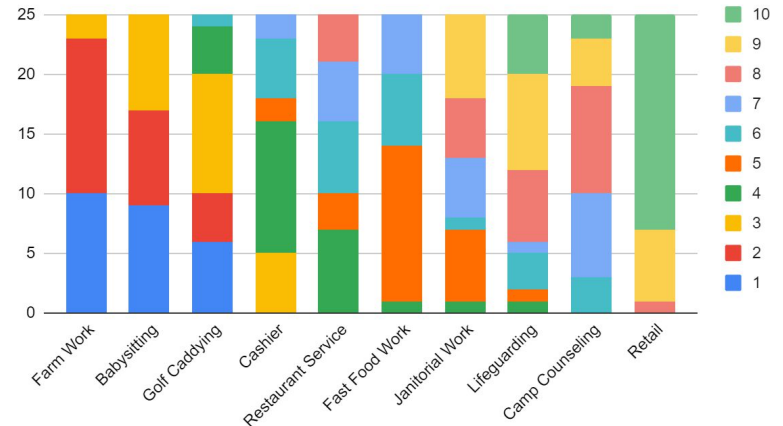
Description: I determined a student's caloric requirements based on his or her individual attributes, assessed the percentage of U.S. students who meet the definition of an "average" student, and developed a budget-friendly lunch plan to satisfy nutritional standards and students' palates.



Project Work Required for the Certificate: 4

Title: HiMCM 2020-2021

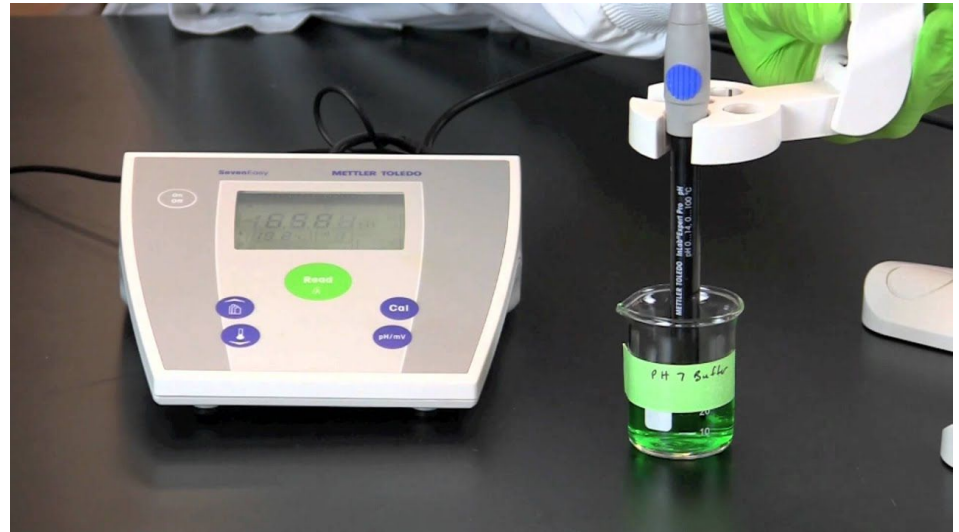
Description: My team researched various types of jobs available to a typical high school students, assessed their quality in their rates, schedule flexibility, and working conditions, and built a model to help students choose their most preferable and available type of part-time job for their summer.



Off-Campus Immersion

Title: Intern graduate students in thesis at HCMUT

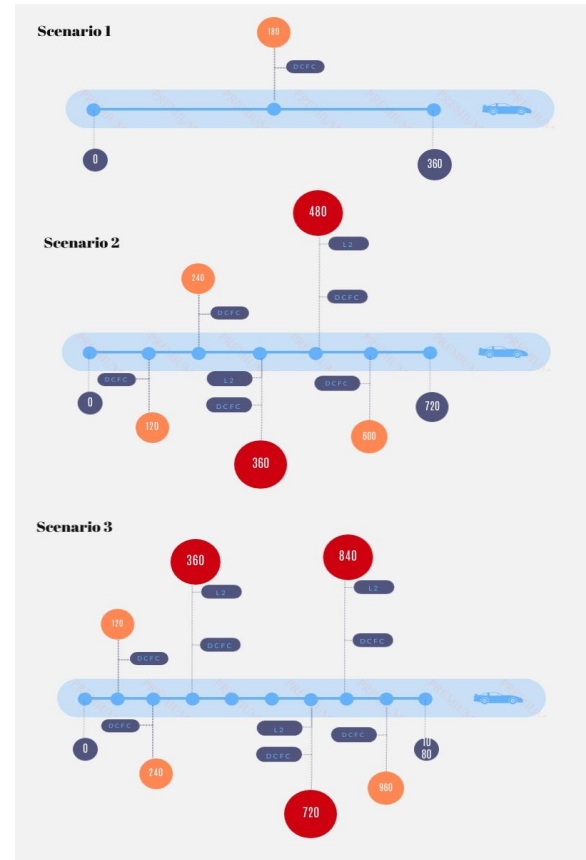
Description: Recycled economic waste from coffee; performed statistical test to see its economic prospects, and wrote parts of research paper.



Extracurricular On-Campus Opportunity

Title: M3 Challenge 2020

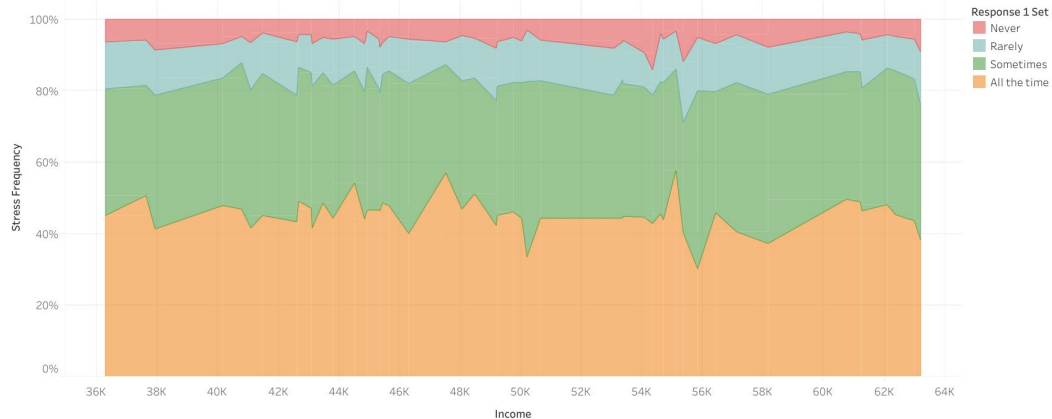
Description: We create a model to predict what percentage of semi-trucks will be electric in the next few years and decades, determine the number and locations of charging stations along major U.S. trucking routes that are needed for an all-electric trucking industry, and to prioritize which routes should be developed with electric charging infrastructure first.



Capstone Project

Title: Data Analyses and Visualizations for Scientific Research

Description: I retrieved data to analyze for the correlation between individuals' stress levels and their residence's environment (represented by States' poverty levels). Afterwards, using Tableau, I visualized and presented my findings.



Certificate Process

Key Advisors: Teacher Nate Venditta, Mariska Batavia, Rose Koenig, Susan Waterhouse,
Dr Le Van Viet Man

Certificate Oversight: Teacher Tom Gilbert

