

# VICTOR HUGO DEL CARPIO GOMEZ

## CONTACT

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## CENTREVILLE HIGH SCHOOL CLIFTON, VA

2015 - 2019, Advanced Diploma

**GPA** 4.405/4.0 (Weighted)

**SCORES** SAT-1470, SAT Math II-790, SAT  
CHEMISTRY-710, AP CS A-5

**CLUBS** Public Forum Debate  
(Captain), Math Honor Society (Mu  
Alpha Theta), Science Honor Society,  
National Honor Society, Science  
Olympiad, 10516 FTC Robotics and  
5243 FRC Robotics (Programmer)

## GEORGE MASON UNIVERSITY FAIRFAX, VA

Oct. 2018 - Present, Mason-FCPS  
Math Dual Enrollment Program

**MATH 213:** Analytic Geometry and  
Calculus III. Partial differentiation,  
multiple integrals, line and surface  
integrals, and three-dimensional  
analytic geometry. Equivalent to  
Math 215.

## YALE UNIVERSITY NEW HAVEN, CT

2019 - 2023, Computer Science B.S.  
Will be attending Yale University in fall  
of 2019. will be majoring in Computer  
Science.

## SKILLS AND AWARDS

**TECHNICAL** Java, Python, C++,  
Processing, Machine Learning,  
Autodesk CAD, Microsoft Office,  
Web Design (HTML/CSS)

**AWARDS** QuestBridge NCM Finalist,  
QuestBridge CP Scholar, National  
Hispanic Recognition Scholar, AP  
Scholar, AP Scholar with Distinction,  
VA Science Olympiad 2nd Place at  
Regionals for Code Analysis, Award  
for Outstanding Achievement in AP  
Computer Science A, Award for  
Outstanding Achievement in Adv.  
Computer Science AB

## ACADEMICS

### MIT Online Science, Technology, and Engineering Community

JUNE 25, 2018 - DECEMBER 23, 2018

Took college-level courses in machine learning and science writing;  
wrote research papers on using bacteriophages as alternatives to  
antibiotics; attended week-long conference at MIT and presented  
a research project on the correlation between economic disparity  
and standardized test scores in Massachusetts Public Schools.

### Yale YG Scholars, Applied Science and Engineering Program

JUNE 15, 2018 - JUNE 29, 2018

Accepted on full scholarship. Attended Seminars on Biomimetics,  
Recursion, Diversity of Programming Languages, and Speech  
Recognition and Its Applications in Health Care. Conducted a  
Capstone research project regarding 3D printing coral reefs in order  
to reverse the effects of Coral Bleaching.

## VOLUNTEER EXPERIENCE

### Assistant Coach, Centre Ridge Elementary School

Fall 2013 - Present

Young Men in Motion is an after-school running club aimed at  
teaching leadership and character through sports.

### Tutor, Katherine Hanley Family Shelter

2016 - 2017

Tutored underprivileged children in Math, Science, and English.

## WORK EXPERIENCE

### Founder / EquityPrep

NOVEMBER 2018

Created a website offering free SAT test preparation material to  
confront the issue of disproportionate test scores between affluent  
and low-income students. Link: <http://equityprep.ga/>

### Contributor / The Student Scientist

AUGUST 2018 - Present

Conducted personal research and publish articles bi-monthly on  
scientific topics including: machine learning and its applications,  
bioinformatics and biomimicry, and mathematical concepts.

### Mathematics Instructor / Mathnasium

AUGUST 2018 - DECEMBER 2018

Taught math through Calculus at the Mathnasium in Centreville, VA.

### Co-Chief Executive Officer, Co-Founder / STEM for the Streets

SEPTEMBER 2017- Present

A student-led non-profit organization based in Washington, D.C.  
aimed at exposing underserved minority children to STEM through  
hands-on science experiments and engaging lesson plans  
accompanied by STEM professionals. Held workshops at  
Achievement Preparatory Academy, a predominantly African-  
American school in Washington D.C. Raised funds through  
GoFundMe. Currently pursuing 501(c)(3) status.

## PROJECTS

### Analysis of Massachusetts Public School Data / MIT Symposium

Analyzed a large dataset of MA public school data using Python's  
Seaborn, Pandas, and Sci-kit Learn libraries to show correlations  
between economic disadvantage and performance on test scores.

### The Effect of Different Supervised Learning Models on Breast Cancer Classification / Intel Science and Engineering Fair

Tested different machine learning models to determine which  
model most accurately predicted breast cancer diagnosis.