

# Will Torres

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## Education

**ADELPHI UNIVERSITY**  
B.S. in Computer Science  
GPA 3.75

Garden City, NY  
Expected 2022

## Research Experience

**UNIVERSITY OF TENNESSEE – CHATTANOOGA**

Virtual REU

Summer Research Assistant

May 2021 – July 2021

- Assisted with a research project on COVID-19 cointegration analysis, mentored by Dr. Hong Qin
- Wrote code in Python and R to perform cointegration analysis of COVID-19 transmission during holiday peaks, utilizing weather data from the National Oceanic and Atmospheric Administration (NOAA) and COVID-19 data from John Hopkins University
- Assisted with creating a sentiment analysis and text classification model on Twitter data
- Studied time-series analysis and various tests including the Johansen Cointegration, Augmented Dickey Fuller, and Eigenvalue tests

**ADELPHI UNIVERSITY**

Garden City, NY

Undergraduate Research Assistant

January 2020 – May 2021

- Assisted with a research project on agent-based modeling, mentored by Dr. Carl Giuffre
- Wrote code in Python to simulate the overwintering process of honey bees in order to visualize how the simulated colony's survival is affected by climate change
- Studied topics such as honey bee biology, physiology, and thermoregulation in conjunction with using Matplotlib, NumPy, Pandas, and PyGame to create a visual aid

## Academic & Teaching Experience

**ADELPHI UNIVERSITY**

Garden City, NY

Teaching Assistant

January 2021 – May 2021

- Provided individual and small group instruction, both in-person and remotely, for students struggling to learn Statistics, Data Analysis, and Computer Programming
- Aided students with programming and computer software skills in Python, R, Java, C, and Excel

**NASSAU COMMUNITY COLLEGE**

Garden City, NY

Laboratory Assistant

September 2018 – May 2019

- Organized and prepared teaching instruments for each laboratory session
- Developed teaching strategies for the Biology Department to improve learning methods of students by incorporating visual aids and sample presentations as guides
- Assisted students in understanding the fundamentals of each experiment to further improve the teaching environment and laboratory setting

## Professional Experience

### ADELPHI UNIVERSITY

Garden City, NY

#### IT Project Management Assistant

September 2019 – December 2019

- Assisted with 30+ projects, portfolios, and department management activities required to support the Information Technology Department
- Created, monitored, and updated milestone reports, dashboards, spreadsheets, forms, and the Information Technology Department's database
- Organized weekly meetings, prepared meeting agendas, coordinated materials, and tracked action plans

## Presentations

Torres, W. (2021, April). "A Simple Agent-based Model of the European Honey Bee (*Apis mellifera*) Overwintering Process". Platform Presentation, Eastern Colleges Science Conference, Virtual

## Grants

Center for Undergraduate Research in Mathematics, DMS #1722563, (\$3000.00), 2020-2021

## Honors & Awards

### Dean's List

Spring 2020 | Fall 2020 | Spring 2021

### Excellence Award

Eastern Colleges Science Conference 2021

### Science Advancement Award

NYS CSTEP 2020

## On-Campus Involvement

### ADELPHI UNIVERSITY, Environmental Action Coalition

#### Event Coordinator

September 2019 –

### NASSAU COMMUNITY COLLEGE, NY Public Interest Research Group

#### Secretary

September 2018 – May 2019

#### Public Relations

September 2017 – May 2018

## Professional Associations

American Mathematical Society

Association for Computing Machinery

Collegiate Science and Technology Entry Program (CSTEP)

Environmental Action Coalition, Adelphi University

NY Renews

## Technical Skills

### *Programming*

#### Fluent:

Python, R

#### Intermediate:

Java, C, C++, HTML, CSS, JavaScript, SQL, PHP

#### Beginner:

C#, Node.js, React, Angular

### *Software*

Linux, Git, LaTeX, Microsoft Office (Word, Excel, PowerPoint), Jupyter Notebook, Spyder, Slack

## References

**CARL GIUFFRE**, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University

(516) 237-8584, [cgiuffre@adelphi.edu](mailto:cgiuffre@adelphi.edu)

**JOSHUA HILLER**, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University

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**HONG QIN**, Associate Professor

College of Engineering and Computer Science, University of Tennessee – Chattanooga

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