

Will Torres

Glen Cove, NY 11542 | DOB: July 15th, 2000; US Citizen
 (516) 502-5492 | torrwill@gmail.com | [linkedin.com/in/torreswill](https://www.linkedin.com/in/torreswill) | github.com/torrwill

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 – Jul 2021

- Assisted with a research project on COVID-19 cointegration analysis, mentored by Dr. Hong Qin.
- Automated the cointegration analysis of 3000+ US counties using zoo, forecast, VARS, and lmtest.
- Tidied data with tidyverse, lubridate, and dplyr. Visualized cointegrated states using ggplot2.
- Studied time-series analysis (Johansen Cointegration, Augmented Dickey Fuller, and Eigenvalue tests) and aggregated data from NOAA, Johns Hopkins University, CDC, and WHO.

ADELPHI UNIVERSITY

Garden City, NY

Undergraduate Research Assistant

Jan 2020 – May 2021

- Assisted with a research project on agent-based modeling, mentored by Dr. Carl Giuffre.
- Simulated the honeybee overwintering process using NumPy, Pandas.
- Visualized how the honey bee colony can be affected by climate change with PyGame.
- Tidied, analyzed, and visualized simulation data using tidyverse, lubridate, dplyr, and ggplot2.

Academic & Teaching Experience

ADELPHI UNIVERSITY

Garden City, NY

Teaching Assistant

Jan 2021 – Present

- Provided individual and small group instruction for 30+ students in Statistics and Calculus 1.
- Assisted students with programming assignments via code review in Python and R.
- Graded and provided feedback on assignments, labs, and exams.

SELF EMPLOYED

Virtual/New York

Private Tutor

Jan 2014 – Present

- Provided in home/remote academic tutoring and homework assistance to 100+ students in:
Computer Programming: Python, Java, C, C++, HTML, CSS, JavaScript, PHP, MySQL
Mathematics: Algebra, Trigonometry, Statistics, Calculus 1
Software: Excel, Word, PowerPoint

Professional Experience

ADELPHI UNIVERSITY

Garden City, NY

IT Project Management Assistant

Sept 2019 – Dec 2019

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

Presentations

- Torres, W. (2021, Aug). "Cointegration Analysis of COVID-19 Transmission at State and County Levels in the US". Platform Presentation, University of Tennessee – Chattanooga Undergraduate Research Conference, Virtual
- Torres, W. (2021, Apr). "A Simple Agent-based Model of the European Honey Bee (*Apis mellifera*) Overwintering Process". Platform Presentation, Eastern Colleges Science Conference, Virtual

Grants

- National Science Foundation, NSF-REU #1852042, (\$6000.00), 2021 - 2021
- Center for Undergraduate Research in Mathematics, DMS #1722563, (\$3000.00), 2020 - 2021

Honors & Awards

Dean's List

Spring 2020 | Fall 2020 | Fall 2021

Excellence Award

Eastern Colleges Science Conference, 2021

Science Advancement Award

NYS CSTEP, 2020

On-Campus Involvement

ADELPHI UNIVERSITY

Environmental Action Coalition, Event Coordinator

Sept 2019 – Dec 2021

The Delphian, Writer

Sept 2021 – Dec 2021

NASSAU COMMUNITY COLLEGE

NY Public Interest Research Group, Secretary

Sept 2018 – May 2019

NY Public Interest Research Group, Public Relations

Sept 2017 – May 2018

Professional Associations

American Mathematical Society

Association for Computing Machinery

Collegiate Science and Technology Entry Program (CSTEP)

Community Oyster Rehabilitation Effort (CORE)

NY Renews

Technical Skills

Programming Proficient: Python, R, Java

Intermediate: C, C++, HTML, CSS, JavaScript (Node, React, React Native),
MySQL, PHP

Beginner: C#, Go, Kotlin

Software Git, LaTeX, Jupyter Notebook, Spyder, Word, Excel, PowerPoint

Field Specific Terms Frontend Development, Backend Development, Mobile Application Development, Agile Methodologies, Hypothesis Testing, Cross-Validation, Supervised and Unsupervised Machine Learning, Cluster Analysis, Predictive Modeling and Analysis

References

DR. HONG QIN, Associate Professor

College of Engineering and Computer Science, University of Tennessee – Chattanooga
(423) 425-4329, hong-qin@utc.edu

DR. CARL GIUFFRE, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University
(516) 237-8584, cgiuffre@adelphi.edu

DR. JOSHUA HILLER, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University
(516) 877-4477, johiller@adelphi.edu