

Will Torres

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Education

ADELPHI UNIVERSITY

M.S. in Applied Mathematics and Data Science

B.S. in Computer Science

GPA 3.75

Garden City, NY

Anticipated 2023

Anticipated 2022

Research Experience

UNIVERSITY OF TENNESSEE – CHATTANOOGA

Summer Research Assistant

Virtual REU

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

Undergraduate Research Assistant

Garden City, NY

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.

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, (\$6200.00), 2021-2021

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

Academic & Teaching Experience

COLLEGIATE SCIENCE AND TECHNOLOGY ENTRY PROGRAM

Tutor

New York, NY

Jan 2022 – Present

- Tutored undergraduates in database management systems, web programming, Statistics, Calculus 1 and 2, and Python, Java, JavaScript, C, C++, SQL, and R programming.

ADELPHI UNIVERSITY

Teaching Assistant

Garden City, NY

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 for homework and lab assignments.

Academic & Teaching Experience (Cont.)

SELF EMPLOYED

Private Tutor

Virtual/New York
Jan 2014 – Present

- Provided in home/remote academic tutoring and homework assistance to 50+ K-12 and undergraduates in:
Computer Programming: Python, Java, C, C++, HTML, CSS, JavaScript, PHP, MySQL
Mathematics: Algebra, Trigonometry, Statistics, Calculus 1
Test Preparation: NYS Regents, SAT
Software: Excel, Word, PowerPoint

Professional Experience

ADELPHI UNIVERSITY

IT Project Management Assistant

Garden City, NY
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.

Honors & Awards

Dean's List

Spring 2020 | Fall 2020 | Spring 2021 | Fall 2021

Excellence Award

Eastern Colleges Science Conference, 2021

Science Advancement Award

NYS CSTEP, 2020

On-Campus Involvement

ADELPHI UNIVERSITY

Intramural Volleyball, Badminton, and Soccer Team, Co-Captain
 Environmental Action Coalition, Event Coordinator
 The Delphian, Writer

Oct 2021 – Present
 Sept 2019 – Dec 2021
 Sept 2021 – Dec 2021

NASSAU COMMUNITY COLLEGE

NY Public Interest Research Group, Secretary
 NY Public Interest Research Group, Public Relations

Sept 2018 – May 2019
 Sept 2017 – May 2018

Professional Associations

American Mathematical Society
 Association for Computing Machinery
 Collegiate Science and Technology Entry Program (CSTEP)
 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

HONG QIN, Associate Professor

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

(423) 425-4329, hong-qin@utc.edu

CARL GIUFFRE, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University

(516) 237-8584, cgiuffre@adelphi.edu

JOSHUA HILLER, Assistant Professor

Department of Mathematics and Computer Science, Adelphi University

(516) 877-4477, johiller@adelphi.edu