Will Torres

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Education

ADELPHI UNIVERSITY   Garden City, NY
B.S. in Computer Science   Expected 2022
GPA 3.75

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

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

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