Wendy Teuchtler

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About Me

Through my background as a molecular science researcher, I enjoy the process of data coming together to form new insights on complicated problems. This led me to transition to data analytics. Throughout my career, I have gathered and organized information to transform it into actionable reports and I look forward to growing my skills in data analytics.

Data Skills

- SQL
- Python
- Excel
- Power BI
- Agile Methodology
- Tableau

Data Experience

Data Analytics Apprentice, Nashville Software School   Expected grad date Jan 2023

Full-time bootcamp focusing on data analytics fundamentals and problems solving. Hands-on training in Python, SQL, Excel, Tableau, and Power BI with a focus on data storytelling, building reports, and creating dashboards. Used real-world datasets and included projects where findings were presented to stakeholders from the community. Instruction and teamwork done remotely through Zoom.

- Source code version control with Git/GitHub
- Project management and tracking with GitHub project boards and issue tracking
- Wrangled data and performed exploratory data analysis using Python's *pandas* library
- Created data visualizations using *matplotlib* and *seaborn*
- Performed geospatial analysis using *geopandas* and *folium*
- Retrieved and analyzed data using PostgreSQL queries, subqueries, and CTEs
- Analyzed data using Microsoft Excel, including using pivot tables and lookups, and used PowerPivot to connect to external data sources
- Built and deployed dashboards using Tableau and PowerBI

Projects

Honey Bee Capstone Project | Python | Tableau

Acquired data from USDA reports on honey bees, cleaned and prepared data for analysis using python. Designed and executed a presentation using visuals created with tableau and python. This capstone sheds light on the environmental factors that contribute to colony stressors and success of managed pollinator colonies.

HUD Housing Market Project – team project | Python
Used python to create an analysis determining the impact affordable housing developments have on neighboring home values. Cleaned and shaped data to generate graphs and other visualizations that demonstrate changing trends of housing prices in areas with and without affordable housing.

Shark Attacks | Tableau
Created a dashboard using data from Kaggle with over a century of shark attack records to gain insights on where and when shark attacks are prevalent. [Shark Attacks Dashboard](#)

Professional Experience

Research Technician II
Baylor College of Medicine/Texas Children's Hospital   Aug 2021- May 2022

Investigated molecular pathways related to hematologic diseases and management of day-to-day lab operations:

- Time sensitive DNA and RNA extractions for patient blood samples
- Maintenance of biobank records for ICON ITP study
- Lab assays including qPCR, ELISA, culture of human primary cells, whole blood processing, flow cytometry
- Implemented new assay protocols
- Managed inventory of all chemical reagents and lab instruments
- Maintained quality standards and aseptic environment necessary for BSL II laboratory

Research Assistant
University of West Florida, University of Washington, Duke University   May 2017- Dec 2020

- Investigated impact of azaborine compounds on mitochondrial membrane potential in HeLa cells
- Studied effects of HAX-1 knockout on neutrophil NETs
- Identification of furrow-associated proteins in Chlamydomonas
- Studied Arp 2/3 complex using larval zebrafish model organisms
- Investigated the relationship between variant genes associated with ALS using *D. melanogaster* as a model system.
- Analyzed microfauna, microflora and chemical changes to Florida beaches and bayous
- Tested the most effective way to recrystallize the trifluoromethylator pharmaceutical reagent using a solvent, non-solvent system.

35N Signals Intelligence Analyst and Soldier   Jul 2009- Nov2013
United States Army, National Security Agency, Fort Meade MD

- Top Secret SCI clearance (out of scope)
- Reported troop activity on over 350 strategic targets leading to hundreds of status-of-forces reports, including aiding the National Geospatial Intelligence Agency in the discovery of adversary training areas, which were subsequently entered into a centralized database for multi-agency use.
- Authored thousands of high-visibility reports, working with various intelligence agencies. Gathered and interpreted signals intelligence data and digital network data for further dissemination.
- Participated in military software training program, and developed training procedures that decreased training time by 50%
- Trained new team members on day-to-day signals operations

Education

Data Analytics Bootcamp Certification   2023
Nashville Software School

B.S. in Biomedical Sciences (4.0 GPA, summa cum laude)   2016-2020
University of West Florida, Pensacola FL

35N Signals Intelligence Training   2011
Army Signals Intelligence Training SCIF, San Angelo, TX

Awards and Achievements

NIH Maximizing Access to Research Careers (MARC) U-STAR Award   2018-2020

UWF Summer of Undergraduate Research Program (SURP) Award   2017

National Security Agency/ Central Security Service Office of Russia   2013

U.S. Army Joint Service Achievement Medal   2013

Publications

"Structures of the Oxidized States of Some Common Biochemical   Fall 2019
    Reducing Agents," A. T. Royappa, A. L. Rheingold, W. C. Teuchtler,
    N. L. Auld; J. Mol. Struct. (2019) DOI: 10.1016/J.MOLSTRUC.
    2019.127268

"Arnold L. Rheingold, A. Timothy Royappa, Niccole L. Auld, Wendy C. Teuchtler,   Spring 2017
    CSD Communication, 2017 (refcode XAPGUT)."