Leo Philip Peregrine Bell

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Education

The Pennsylvania State University *State College, PA*
MS - Statistics *2022-2024*
- **Coursework:** Linear Algebra, Measure Theory, Functional Analysis, Data Mining, Sampling Methods, Regression Methods

The Pennsylvania State University *State College, PA*
BS - Mathematics, BS Economics *2019-2023*
- **Coursework:** Real Analysis, Game Theory, Computational Economics, Abstract Algebra, Mathematical Statistics

Experience

Operations Research Analyst *Huntsville, AL*
United States Department of Defense *2024 – Present*
- Developed allocation optimization model for a budgeting project to help advise senior officials on decision-making for a large-scale funding allocation project. In doing this had to implement large amounts of data cleaning techniques, as well as consider project-specific data constraints.
- Designed and implemented a scenario-based dashboard of the previously mentioned optimization model in Python using Streamlit.

Statistical Consultant *State College, PA*
The Pennsylvania State University, Department of Statistics *2023 – 2024*
- Provided statistical support for various other-departmental graduate students, professors, and researchers
- Presented results and questions to faculty mentors and other students in a twice a week seminar-style "consultant meeting" to get guidance for our own clients as well as provide support for other consultants

Projects

Logistic Regression + Naive Bayes Classification Link ↗
STAT 557 - Data Mining
- Manual coding and implementation of Gradient Descent and Naive Bayes Classifier methods on medical data. The challenge of the implementation being only base R commands were permitted

Perplex Numbers and Applications Link ↗
MATH 421 - Complex Analysis
- Explored the algebraic structure and operations of Perplex (also known as split-complex) numbers, highlighting their differences from complex numbers

Technical Skills

Programming Languages R (tidyverse, shiny), Python (PySpark, PyTorch, pandas, Streamlit, SciPy, Scikit-Learn), STATA, SQL
Technologies: PowerBI, Microsoft 365, Palantir Foundry, GitHub

Misc

Citizenship: US, UK
Personal Hobbies: Fencing, Swimming, Chess, Bass Guitar, Literature
Clearance Status: T3