Johnny Stuto 208-400-0092

Education:

BSc, Applied Mathematics, University of Idaho, 2019
MSc, Statistical Science, University of Idaho, 2021
MSc, Computer Science, University of Idaho, 2024
MSc, Geospatial Intelligence, University of Idaho, 2024
Ph.D. Candidate, Statistical Science, Washington State University, Spring 2027 (Expected)

Skills:

- SAS, Python, Jupyter, NumPy, Pandas, Polars Scikit-Learn, TensorFlow/Keras, RStudio, Tidyverse,
- SQL, Julia, C++, Pascal, MATLAB, HTML/CSS
- Machine Learning & AI Frameworks: Scikit-learn, TensorFlow, Keras, PyTorch, Pennylane
- Techniques: Time Series Analysis, Feature Engineering, Model Development & Evaluation
- LLM Integration: NLP: BERT, GPT, Huggingface
- Data Engineering ETL Processes, Data Warehousing, Postgres and Oracle DBMS
- Hypothesis Testing, Regression Analysis, Bayesian Inference, A/B Testing
- Skilled in methodologies for data analysis, model validation, and technical reporting
- Python ArcPro scripting for geospatial data processing and analysis
- Experienced with ArcGIS Pro for GIS visualization and spatial data management
- Git, GitLab, Docker, Teams
- Familiar with Tableau/ Power BI to visualize complex datasets.
- US ANACI Secret Clearance (2022)
- American Statistical Association & Pi Mu Epsilon, National Mathematical Honor Society Member
- Veteran: Honorable Discharge, US Active Army, Infantry Heavy Weapon Specialist (11-B), 25th Inf. Division

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Employment:

Mathematical Statistician GS-1529-12 | *Bureau of Labor Statistics,* DOL | August 2022 – Present

- Modernized data workflows and conducted advanced statistical analysis across programs like the Quarterly Census of Employment and Wages (QCEW) and Job Openings and Labor Turnover Survey (JOLTS).
- Transitioned data processing workflows from SAS to Python and R, improving scalability and reducing execution time by 80%. Developed Python solutions to track cohort migrations across states and sectors, significantly reducing error-checking script execution time.
- Led comprehensive evaluations of the Quarterly Business Survey (QBS) sampling methodology to enhance cost-efficiency and reduce sampled establishment errors.
- Collaborated on state-requested wage records projects, completing analyses for the Nebraska healthcare, Pennsylvania general employment, and Montana teaching industry projects. Enhanced workflows to accommodate new reporting requirements for state-level employment trends and cross-state wage analysis.
- Created and validated tools to generalize wage record code across multiple datasets, migrating workflows to a cloud environment and modernizing input/output pipelines for data requests.
- Acted as the de facto lead programmer for multi-sector wage projects and managed cross-team knowledge transfer for new methodologies.

Environmental Scientist, *U.S. Army Corps of Engineers*, Dworshak Dam, Idaho, GS-0028-11, 2014–2022

- Ensured compliance with RCRA (LQG), SPCC, CWA, TSCA, CERCLA, NEPA, and OSHA GHS regulations.
- Managed the SDS Database and served as Spill Response ICS Incident Commander.
- Member of the Forward Engineering Support Team (FEST ENVst).
- Authored SPCC plans and managed three NPDES permits.

Environmental Officer, *U.S. Navy*, Guantanamo Bay, Cuba, GS-0028-11, 2012–2014

- Participated in the USGS Sirenia Project as a Manatee Survey and Rescue team member.
- Served as a civilian witness for U.S. Military Tribunals for detainees.
- Ensured OSHA compliance for the U.S. Navy Hospital during Joint Commission inspections