

APOSTOLOS STAMENOS, MS

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SUMMARY

Senior Data Scientist with an MS in Statistics and 5+ years of mission-critical federal experience building ML systems, high-throughput data pipelines, and compliance-constrained automation on **Palantir Foundry**. Led agency-wide system transitions for the national COVID response designing custom automation to maintain data continuity under deadline pressure. Track record of engineering FedRAMP-compliant ML and NLP solutions, translating vague policy requirements into production-grade data systems, and mentoring technical teams to deliver results at scale. Seeking a senior individual contributor or technical lead role in health tech, federal consulting, or data-intensive industry.

EXPERTISE

Platforms & Tools: Palantir Foundry, Git/GitHub, SQL, PySpark, ArcGIS Pro, FedRAMP-compliant cloud environments.

ML & AI: Anomaly Detection, NLP, Bayesian Modeling, Causal Inference, Classification, Spatiotemporal Modeling, Dimensionality Reduction.

Languages: Python (*NumPy*, *SciPy*, *pandas*), R/RStudio (*tidyverse*), C++, LaTeX.

Business Intelligence: Data Visualization, Dashboard Development, Reproducible Workflows, Stakeholder Communication.

Leadership: Cross-functional Collaboration, Technical Mentorship, Translating Policy Requirements into Data Solutions, System Transition Management.

PROFESSIONAL EXPERIENCE

University of Minnesota School of Public Health

Graduate Assistant

Washington, D.C.

August 2025 – Present

- Update online education material to ensure ADA-compliance.
- Grade student assignments to assess biostatistical literacy.
- Provide honest but kind feedback to students about where they went wrong.

Self-Employed

Consultant & Instructor

Minneapolis, MN

August 2024 – Present

- Tech Consulting (product ops, process design, and tooling) for early-stage startups.
- 1:1 instruction in statistics, programming, and computer literacy for undergraduate, graduate, and adult learner students.

U.S. Department of Health & Human Services

IT Specialist Data Consultant

Washington, D.C.

August 2021 – July 2023

- **Led the agency-wide transition** of mission-critical public health systems — [HHS Protect](#) and [Vaccines.gov](#) — from HHS to CDC and ASPR, collaborating with departmental and technical leadership to ensure zero-disruption data and operational handoff across organizations.
- Designed and engineered a **custom automation bridge** for the Vaccines.gov service desk transition to CDC, resolving a critical gap in service continuity with a last-minute solution that maintained uninterrupted operations while CDC finalized its technical setup.
- Built and deployed **FedRAMP-compliant ML and NLP automation tooling** within Palantir Foundry, finding compliant solutions to advance the agency's automation agenda within strict federal security boundaries.
- Engineered high-throughput **data pipelines to ingest, harmonize, and standardize** health data from disparate federal and state sources; deployed ML-driven anomaly detection models to monitor national hospital data system integrity.
- Managed the **full deployment lifecycle of public-facing platforms** ([Healthdata.gov](#) & [HHS OCDO website](#)), delivering actionable insights to senior stakeholders and the public.
- Mentored and led a technical team of **11 interns** in rigorous data practices, reporting dashboards, and professional development.

- Developed Python programs to integrate diverse health equity datasets with federal databases to drive multi-modal insights.
- Generated data-driven recommendations that improved agency-wide data practices and communication of health results.

EDUCATION

University of Minnesota

Expected May 2028

Ph.D. in Biostatistics

Focus: Bayesian Models, Brain Imaging, Causal Inference, Psychopathology, Spatiotemporal Modeling.

North Carolina State University

August 2023

Master of Statistics

The Pennsylvania State University

May 2021

Bachelor of Science, Economics

APPLIED RESEARCH PROJECTS

Bayesian Spatiotemporal Modeling of Neuroimaging Data

Jan 2025 – Dec 2025

Lead Researcher (T32 Training Grant)

- Developing a novel Bayesian ML method for modeling high-dimensional anatomical sensor data (MRI), accounting for complex spatiotemporal correlations.
- Identifying outlier trajectories in pediatric brain development related to mental health conditions through statistical and algorithmic validation.

Bayesian Integrative Analysis of Multiomics Data

Sep 2023 – Dec 2024

Algorithm Lead (T32 Training Grant)

- Designed and optimized C++ code for a Metropolis Hastings sampler to perform simultaneous inference on high-dimensional clinical and genomic datasets.
- Built a multinomial ML classifier to diagnose pulmonary sarcoidosis, utilizing PCA to reduce dimensionality in patient protein data.

PEER-REVIEWED PUBLICATIONS

- [1] Neher, Aidan, Stamenos, Apostolos et al. Dec. 2026. “A Bayesian Integrative Mixed Modeling Framework for Analysis of the Multi-Site Adolescent Brain and Cognitive Development Study”. en. In: *Data Science in Science* 5.1, p. 2600125. DOI: [10.1080/26941899.2025.2600125](https://doi.org/10.1080/26941899.2025.2600125).
- [2] Kittle, Olivia J., [...], Stamenos, Apostolos, et al. Sept. 2025. “Effects of Indoor Temperature, Relative Humidity, and Carbon Dioxide Conditions on Wean-to-Finish Swine Survivability”. en. In: *Agriculture* 15.19, p. 2050. DOI: [10.3390/agriculture15192050](https://doi.org/10.3390/agriculture15192050).

AWARDS

University of Minnesota

September 2023 – August 2025

National Research Service Award Fellow (NIH T32) in statistical genomics and biomedical research.

U.S. Department of Health & Human Services, OCIO

August 2023

Rookie of the Year Award

U.S. Department of Health & Human Services, OCIO

July 2022

Employee of the Quarter Award

Penn State Schuylkill Academic Resource Center

May 2016

Exceptional Academic Assistance Award