

Samuel Fraley

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EDUCATION

Barcelona School of Economics

Barcelona, Spain

Master in Data Science for Decision Making

09/2025 – 07/2026

Relevant courses: Causal Inference and Machine Learning, Deep Learning, Econometrics

Degree awarded by Universitat Pompeu Fabra and Universitat Autònoma de Barcelona

Temple University

Philadelphia, United States

Bachelor of Arts in Economics; Minor in Geographic Information Systems

08/2020 – 06/2022

Foothill College

Los Altos Hills, United States

Associate of Arts in Economics

08/2018 – 06/2020

PROFESSIONAL EXPERIENCE

National Football League (NFL)

Inglewood, United States

Next Gen Stats Research Analyst

08/2023 – 04/2025

- Cleaned and processed temporal player tracking data for model production using Python (pandas, numpy); developed proof-of-concept model to identify defensive blitz paths from raw tracking data.
- Supported engineering team with EDA and feature importance analysis in Python during development of XGBoost models for spatial player tracking and draft prediction.
- Developed SQL views and Amazon QuickSight dashboards delivering player statistics to all 32 clubs, network partners, and fans.
- Fielded ad hoc analytical requests from clubs, coaching staff, and scouts, and authored weekly game preview research packets, communicating Next Gen Stats findings to both technical and non-technical stakeholders.

Magnolia Impact Solutions

Philadelphia, United States

Senior Data Analyst

03/2024 – 08/2025

- Designed and implemented a weighted scoring pipeline in Python to evaluate small business grant applications as part of a client project with the City of Philadelphia's commerce department.
- Analyzed panel data in R focused on individual financial health as part of a multi-year program evaluation project on the impact of Philadelphia's workforce development board.

Philadelphia Works Inc

Philadelphia, United States

Research Analyst / Consultant

07/2023 – 08/2025

- Analyzed regional economic and demographic data in R to provide data-driven insights on the Philadelphia economy, workforce, and occupational outlook.
- Developed Tableau dashboards providing timely updates on the regional economy and program evaluation for workforce ecosystem participants.
- Authored research briefs and reports analyzing the benefits cliff, occupational wage quality, and inflation.

LANGUAGES & TECHNICAL SKILLS

Data Science / ML: Python (pandas, scikit-learn, numpy, PyTorch), R (dplyr, ggplot2), SQL

Visualization & BI: Tableau, Amazon QuickSight, ArcGIS

ADDITIONAL INFORMATION

- Temple University Football Team - NCAA Division I (2020–2022)
- Uplifting Athletes Rare Disease Championship Team Member (2021)
- Jason Witten Memorial Scholarship recipient (2020)