

Patricia Annan

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Education

Master of Science in Economics | University of Wisconsin - Madison | May 2024

Coursework: Econometrics I-III, Data Analysis for Economists, International Finance, International Trade

Bachelor of Arts in Economics, Minor in Mathematics | University of Colorado, Denver | Dec 2020

Certificate in Health and Development Economics

Coursework: Applied Statistics, Statistical Theory -RStudio, Advanced Econometrics, Linear Algebra

Skills

Programming & Data Analysis: Python, RStudio, SQL, Excel, SAS, STATA, SPSS

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn, GeoPandas, Plotly

Quantitative Research & Modeling: Forecasting, Econometrics, Statistical Analysis

Language : French (Diplôme d'études en langue française (DELF) – B1)

Experience

Project Assistant & Course Grader

University of Wisconsin – Madison | Madison, WI | Sept 2023 – May 2024

- Evaluated course assignments, including Data Visualization for Economists, International Macroeconomics, and Economics of Race.
- Provided feedback on data visualization techniques in Tableau, improving students' data storytelling and analytical proficiency.

External Risk Analyst Trainee

Federal Housing Finance Agency (FHFA) | Washington, D.C | June 2023 – Sept 2023

- Extracted and manipulated data from an SQL Oracle database, transferring it to Excel for analysis in RStudio and Tableau
- Performed economic analysis to identify trends, risks, and patterns in the housing market and developed actionable insights in Tableau that informed the decision-making process.
- Report findings to the Chief External Risk Officer, showing the ability to translate complex data into actionable insights.
- Acquired in-depth knowledge of external economic and capital market dynamics and their potential impact on the safety and soundness of the mortgage finance market.

Customer Service Clerk

King Soopers | Englewood, CO | Aug 2014 – Aug 2022

- Managed high-volume financial transactions via Western Union and RIA, ensuring compliance with Anti-Money Laundering (AML) and state regulations.
- Led training for new associates, streamlining service workflows and improving customer experience.

Projects

Store Sales Analysis | *Tableau*

- Analyzed and visualized sales performance, profit, and losses across various dimensions, including year, state, city, department, and category.

Loan Default Prediction | *Python*

- Analyzed financial data for 614 borrowers to assess loan default risk.
- Achieved 82% prediction accuracy using Naïve Bayes and other classification models.

Commodity Price Forecasting | *Master's Thesis* | *Python* | *RStudio*

- Examined the relation between composite commodity prices, real interest, and exchange rates.
- Built a proxy-SVAR model to forecast commodity price movements based on macroeconomic factors.

Financial Inclusion Research | *Independent Study* | *Python* | *RStudio*

- Investigated financial service accessibility across demographics using a logistic regression model.

Housing Price and Crime Rate | *Group Project* | *Python*

- Analyzed the correlation between crime rates and housing markets across the 72 counties in Wisconsin.

Volunteering

AmeriCorps | Madison, WI | Jun 2024-Aug 2024

- Led youth development initiatives in Dane County, aligning with AmeriCorps' national goals.
- Designed and facilitated summer camp activities and tutoring sessions to address educational gaps for middle and high school students.

Certifications

Bloomberg Market Concepts | 2024

Advanced Tableau, Salesforce Trailhead | 2023

UN CC: e-Learn - Children and Climate Change, United Nations Institute of Training and Research | 2018

UN CC: e-Learn - Climate, United Nations Institute of Training and Research | 2017