Christopher Hynes

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Education

Georgia Institute of Technology Jan. 2024 – Expected Dec. 2026
M.S. in Computer Science. Cumulative GPA: 4.0 *Atlanta, GA*

University of South Carolina: Honors College Aug. 2018 – Aug. 2022
B.S. in Statistics, Economics; Summa cum laude, GPA: 4.0 *Columbia, SC*

University Carlos III of Madrid Sep. 2021 – Jun. 2022
Study Abroad Program *Madrid, Spain*

Awards & Honors

Stephen D. Durham Award 2022
Awarded to the top senior statistics student for exceptional academic performance.

Phi Beta Kappa Honor Society 2022
Top academic honor society in the liberal arts and sciences

Palmetto Fellows Scholarship 2018 – 2022
Competitive South Carolina state scholarship awarded for exemplary academic achievement.

Presidential Scholars Award 2018 – 2022
Merit-based scholarship awarded to Palmetto Fellows with a 1450+ SAT or 33+ ACT.

Experience

Data Analyst Intern Jun. 2023 – Sep. 2023
GreyNoise Intelligence; Finance and Operations Team *Washington, DC*

- Automated Excel error checks across multiple datasets to identify inconsistencies
- Rebuilt and partially automated NAICS-to-industry mapping in Excel to improve classification relevance
- Developed automated financial models in Excel to streamline deal calculations for the CX team, including handling mid-term customer upgrades and co-term subscription merging
- Partially automated company vendor and transaction breakdown in Excel, enabling detailed spend analysis by vendor, category, and month from year-specific data
- Created a company cash investment tracker in Excel, integrating financial institution data to forecast returns and include them in monthly financial forecasts
- Conducted detailed analysis of customer churn and point of origin using R, identifying key variables influencing churn rates and successful lead-to-conversion rates (e.g., industry, contract size, account history)

Undergraduate Research Assistant May 2021 – Oct. 2021
Darla Moore School of Business; Division of Research *Columbia, SC*

- Conducted a literature review on spatial segregation and relevant metrics, focusing on the impact of neighboring effects in Charleston's neighborhoods
- Collected and cleaned data on various economic, social, and demographic characteristics of MSAs to analyze factors influencing STEM worker agglomeration
- Computed location quotients for STEM/knowledge workers and conducted regression analysis to identify key factors driving STEM worker agglomeration across MSAs, using Stata and R
- Redesigned professor's course material to ensure compliance with university accessibility standards, improving accessibility for all students

Undergraduate Research Assistant Jan. 2020 – Jan. 2021
University of South Carolina; Department of Economics *Columbia, SC*

- Digitized and organized CDC vital statistics data (natality, maternal mortality rates, live birth order, and live births by attendant) to support analysis of racial disparities in birth outcomes post-hospital desegregation

Projects

Revisiting Neural Models for Hospital Readmission | *Python (PyTorch), Colab* Mar. 2025 – Apr. 2025

- Reimplemented a published neural network (CONTENT model) and GRU benchmark for hospital readmission prediction using PyTorch
- Conducted statistical significance testing, finding performance gains to be non-significant under the original setup
- Improved model accuracy by applying hyperparameter tuning via grid search, resulting in statistically significant gains ($p < 0.0001$)
- Gained hands-on experience with LLMs by integrating them into model development and documenting their use as part of the research process

Machine Learning for Finance: Capstone Project | *Python (Pandas, NumPy), Git* Jan. 2024 – May 2024

- Implemented a decision tree algorithm from scratch
- Created a basic market simulator to test stock trade orders and track portfolio values over time
- Implemented technical indicators to generate buy/sell signals, including a custom-designed indicator
- Used technical indicators to train a strategy learner, applying a bagged random tree model to maximize risk-adjusted return
- Compared the performance of a manual strategy with that of the strategy learner

Individual HCI Project: Streamlined Camera Mode Selection in iOS | *Figma* Oct. 2024 – Nov. 2024

- Conducted naturalistic and participant observations, a user survey, and a heuristic analysis to analyze the existing iOS camera mode selection interface
- Brainstormed design alternatives and developed an initial prototype, followed by an evaluation survey and analysis
- Created a functional Figma prototype and conducted a final user evaluation, where participants significantly preferred my redesigned interface over the original

Thesis: The Effects of Chile's Neoliberal Reforms in the 1970s | *R, tidyverse* Aug. 2020 – May. 2022

- Conducted extensive research on Chile's economic reforms and economic history
- Cleaned and prepared cross-country macroeconomic data from the World Bank
- Used the synthetic control method to create a counterfactual "synthetic" Chile to estimate the impact of the reforms on Chile's GDP per capita
- Found a significant positive effect of the reforms on GDP per capita, with robust results across multiple checks

Coursework

Computing: Machine Learning for Trading, Big Data for Health Informatics, Big Data Analytics, Robotics: AI Techniques, Applied Multivariate Statistics, Computing in Statistics, Human-Computer Interaction, Algorithmic Design
Mathematics and Statistics: Introduction to Analytics Modeling, Statistical Methods I & II, Probability, Mathematical Statistics, Theory of Statistical Inference, Calculus I II & III, Linear Algebra
Economics: Introductory Econometrics, Intermediate Microeconomics & Macroeconomics, Quantitative Microeconomics, Labor Economics, Development Economics, Urban Economics

Technical Skills

Languages: Proficient in R, Python, SQL; Familiar with Java, Stata, SAS
Libraries: tidyverse, NumPy, pandas, matplotlib, PyTorch, Streamlit
Frameworks: Familiar with PySpark, Hadoop (Pig, Hive)
Developer Tools: Familiar with Markdown, Git, Google Colab, Jupyter Notebook
Software & Tools: Microsoft Office Suite (Excel, Word, PowerPoint); Familiar with Tableau, Figma
Data Science and Machine Learning: Proficient in statistical analysis, hypothesis testing, AB testing, forecasting, and prediction; Experience with supervised and unsupervised learning methods (e.g., linear and logistic regression, decision trees, KNN, SVM, clustering, neural networks)

Languages

- English: Native
- Spanish: Advanced
- German: Intermediate
- French: Basic