

Christopher Hynes

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EDUCATION

Georgia Institute of Technology <i>M.S. in Computer Science. Cumulative GPA: 4.0</i>	Jan. 2024 – Expected Dec. 2026 <i>Atlanta, GA</i>
University of South Carolina: Honors College <i>B.S. in Statistics, Economics; Summa cum laude, GPA: 4.0</i>	Aug. 2018 – Aug. 2022 <i>Columbia, SC</i>
University Carlos III of Madrid <i>Study Abroad Program</i>	Sep. 2021 – Jun. 2022 <i>Madrid, Spain</i>

AWARDS & HONORS

Stephen D. Durham Award <i>Awarded to the top senior statistics student for exceptional academic performance.</i>	2022
Phi Beta Kappa Honor Society <i>Top academic honor society in the liberal arts and sciences</i>	2022
Palmetto Fellows Scholarship <i>South Carolina state scholarship awarded for exemplary academic achievement.</i>	2018 – 2022
Presidential Scholars Award <i>South Carolina state scholarship awarded for high SAT/ACT scores.</i>	2018 – 2022

EXPERIENCE

Data Analyst Intern <i>GreyNoise Intelligence; Finance and Operations Team</i>	Jun. 2023 – Sep. 2023 <i>Washington, DC</i>
<ul style="list-style-type: none">Automated error checks in Excel across datasets to flag data inconsistenciesImproved NAICS-to-industry classification by rebuilding and partially automating the mapping system in ExcelDeveloped Excel models to streamline deal calculations, including mid-term upgrades and co-term mergesAutomated vendor and transaction breakdowns in Excel to enable detailed monthly spend analysis by categoryBuilt a cash investment tracker integrating financial institution data to forecast returns for monthly planningAnalyzed customer churn and lead origins in R, identifying key drivers of churn and conversionBuilt an interactive churn prediction dashboard with Streamlit to visualize drivers and support retention strategies	
Undergraduate Research Assistant <i>Darla Moore School of Business; Division of Research</i>	May 2021 – Oct. 2021 <i>Columbia, SC</i>
<ul style="list-style-type: none">Reviewed literature on spatial segregation metrics and neighborhood effects in Charleston, SCCleaned and analyzed MSA-level economic, social, and demographic data to study STEM worker agglomerationCalculated location quotients and ran regressions in Stata/R to identify drivers of STEM clustering across MSAsRedesigned course materials to meet university accessibility standards, improving usability for all students	
Undergraduate Research Assistant <i>University of South Carolina; Department of Economics</i>	Jan. 2020 – Jan. 2021 <i>Columbia, SC</i>
<ul style="list-style-type: none">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

Personal Portfolio Website <i>Quarto, Markdown, GitHub Pages</i>	Jul. 2025
<ul style="list-style-type: none">Built and deployed a personal portfolio website from scratch to showcase data science projects and technical skillsConfigured GitHub Actions for automated build, test, and deployment of websiteUsed Quarto to render Jupyter Notebooks and R Markdown into dynamic, maintainable web pages	
Revisiting Neural Models for Hospital Readmission <i>Python (PyTorch), Colab</i>	Mar. 2025 – Apr. 2025
<ul style="list-style-type: none">Reimplemented a published neural network (CONTENT model) and GRU benchmark for hospital readmission prediction using PyTorch	

- Performed statistical testing, finding original paper's results non-significant; improved performance significantly ($p < 0.0001$) via grid search tuning
- Integrated LLMs into development workflow and documented their role in the research process

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

- Developed a trading strategy learner using a bagged random tree model implemented from scratch, trained on custom and standard technical indicators
- Built a market simulator from scratch to backtest and compare the ML strategy against a custom manual strategy, optimizing for risk-adjusted returns

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

- Designed and prototyped a functional iOS camera interface in Figma, informed by user research (observations, surveys) and heuristic analysis
- Validated the new design through user testing, which showed significant user preference over the original interface

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

- Used the synthetic control method in R to create a counterfactual "synthetic" Chile using World Bank data
- Estimated the causal impact of the 1970s neoliberal reforms, finding a significant positive effect on GDP per capita robust to several 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, A/B 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