

# Brianna Schuh

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## EDUCATION

### Yale University

B.S. in Statistics and Data Science

May 2023

## PROFESSIONAL EXPERIENCE

### OnCorps AI (Fintech startup)

Director of Data Science

New York, NY (Remote)

October 2025 – Present

- Designing multi-agent workflows and LLM-powered solutions

### BNY

Associate, Data Scientist II

New York, NY

March 2025 – October 2025

- Led development of an AI-powered tool for Model Risk Management (MRM) that improved first-pass yield on model registration forms from 0% to 81%, significantly reducing delays in risk tier assignments
  - Developed backend system (FastAPI, async, Pydantic) supporting evaluation, save/resume, dynamic form generation, and Word document export
  - Designed OracleDB schema to capture form data, responses, and interaction logs, ensuring synchronization with master records and full auditability
  - Built GPT-4.1-powered evaluation workflow with dynamically constructed prompts; collaborated with MRM associates to refine prompts, improving evaluation quality and user trust
- Served as a speaker at 4 events—including BNY's Engineering Analyst Program graduation, BNY Sophomore Summit, ALPFA Career Workshop, and BNY Emerging Talent Summit—sharing insights on Generative AI for early-career and student audiences
- Co-led a "Prompt-a-thon" for BNY's Hispanic/Latinx ERG, introducing members to Generative AI prompting through workshops

Early Careers Analyst, Data Science

August 2023 – March 2025

- Designed and deployed an LLM-powered agent system that automated vendor data retrieval across multiple sources, saving ~52 hours per day—the workload of 7 full-time employees
  - Implemented OpenAI's function calling, creating JSON schema-based functions to match user queries with the appropriate agent designed for the specific task, ensuring efficient handling of queries across the various data sources
  - Built a product recommendation pipeline (FastAPI + RAG) leveraging 16K+ product embeddings in Azure AI Search to improve query relevance
  - Integrated SharePoint and SQL-based agents for document retrieval and data extraction, streamlining access to all data types
- Developed contract review copilot for the Commercial Law Group; achieved >80% accuracy across 30 vendors through prompt tuning and LLM experimentation, laying the groundwork for ~\$900K in annual savings in legal hours

### Yale University

Undergraduate Learning Assistant (ULA), Multivariate Statistical Methods (S&DS 363)

New Haven, CT

January 2023 – May 2023

- Hosted weekly office hours and supported 240+ students via discussion board and assignment feedback

### Bloomberg LP

Data Analyst Intern

Princeton, NJ

June 2022 – August 2022

- Built an internal app to detect Bloomberg Generic Price (BGN) volatility by using statistical methods and plots to identify outliers
- Designed a proof-of-concept automation tool for bank loan data utilizing microservices akin to Apache Airflow & AWS Lambda

## AWARDS

**Ellsworth Prize in Science & Math, Yale:** Awarded for writing the most distinguished senior thesis in Jonathan Edwards College

**Kappa Kappa Gamma (KKG) Foundation Scholarship, KKG:** Awarded for excelling in academics and promoting sisterhood

## PERSONAL PROJECTS

- **LLM Reading Tutor:** Building a full-stack AI-powered web app using FastAPI, PostgreSQL, and React to help users learn Spanish by reading books with real-time GPT-based explanations
- **Senior Thesis:** Researched password complexity using techniques including k-means clustering, CNNs, and MLPs
- **Cribbage AI:** Implemented a genetic algorithm to optimize the values of a custom cribbage pegging policy

## SKILLS

Python, SQL, Git, LaTeX, Agile, Jira, Machine Learning, Software Engineering, AI, LLMs, Technical Writing, Presentations