

Isabel Allum

ita2121@columbia.edu | 202-748-6902 | itallum.com

EDUCATION

Columbia University

2025 - Expected Dec 2026

MS in Computer Science, Machine Learning Track

New York, NY

Relevant Courses: Machine Learning • Artificial Intelligence • Introduction to Databases

University of Chicago

2019 - 2023

BA in Economics, Specialization in Data Science

Chicago, IL

Cum Laude (GPA: 3.89/4), Dean's List 2020 & 2022

Relevant Courses: Econometrics and Machine Learning • Big Data • Data Science Clinic • Data Construction and Interpretation

EXPERIENCE

Charles River Associates

Jul 2023 - Jun 2025

Associate

Chicago, IL

- Conducted data analysis with R, Stata, and PySpark (on DataBricks) for over 10 M&A and antitrust litigation cases
- Performed exploratory data work, ran statistical analyses, and created exhibits through data visualization of large, confidential client datasets to illustrate and substantiate arguments used in expert reports and testimonies
- Authored sections of expert reports, conveying sophisticated economic arguments and key findings from data analysis and research in a clear, convincing, and accessible manner to maximize understanding across diverse audiences

Oliver Wyman

Jun 2022 - Aug 2022

Summer Intern

Chicago, IL

- Wrote hiring job descriptions for client's new IT department, researched competitors to determine client's position in market
- Co-authored presentations and materials for international workshops setting project's direction and strategy

Booth School of Business / Harris School of Public Policy Research Lab

Jun 2021 - Sep 2021

Research Assistant

Chicago, IL

- Coded complex models in R to estimate unemployment insurance coverage under more than 25 alternative benefits systems; findings published by the American Economic Association and presented to Congress
- Utilized Git/Github for version control of code and to communicate detailed progress memos to the principal investigator

PROJECT

Perpetual

Jan 2023 - Mar 2023

- Advised nonprofit Perpetual on data-science related problems with a team of 3 classmates for a 10-week long engagement
- Determined potential distribution and collection points for reusable foodware in two cities through k-means clustering of local parcel data and Google and Yelp API data in Python; demonstrated results to client in regular meetings

LEADERSHIP

Pareto Solutions (Student-Run Consulting Group)

Oct 2020 - Jun 2023

Engagement Manager, Recruitment Director

Chicago, IL

- Managed a 6-person engagement for 3 months; led client and team calls, directed workflows, and finalized client deliverable
- Headed a 15-person recruitment team; directed and participated in the selection of 8 new members out of 107 applicants

SKILLS

Technical Skills: R, Stata, Python, PySpark, Git/Github, Databricks, SQL

Soft Skills: Economic and business research, effective communication (written and verbal), critical thinking and problem solving, client relations, cross-functional teamwork, Mandarin Chinese (8 years' study)