Nicolas Casey

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EDUCATION

University of Pennsylvania   **Philadelphia, PA**
The College of Arts and Sciences, *B.A. in Mathematical Economics*   August 2021 – May 2026
The Wharton School*, Minor in Statistics*
- Relevant Coursework: Monetary and Global Economics, Macroeconomics, Honors Calculus, Statistics, Statistical Computing with R, Computational Linear Algebra, Leading Diversity in Organizations, Business Model Innovation Strategy, Entrepreneurship
- Organizations: Lightweight Rowing, Undergraduate Economics Society, Venture Lab, Center for Africana Studies Summer Institute

Regis High School   **New York, NY**
High School Diploma   September 2017 – May 2021
- SAT: 1590; Honors Card (highest academic performance award) every trimester
- Varsity public forum debater and extemporaneous speaker on a nationally top-ranked speech and debate team, Science Research Project Program graduate, founder of TEDxRegis Club

EXPERIENCE

Santander Private Banking International (Banco Santander International — BSI)   **Miami, FL**
Summer Private Banking Analyst   May 2024 – August 2024
- Worked directly for the Executive Director of Data Analytics, CTO, and CIO to produce BSI's first internal AI-driven research project, using R on portfolio data to infer behavioral patterns in client, advisor, and market activity.
- Created a transaction volume visualization tool in Tableau for the CIO's investment team and integrated it into the above AI pipeline, performing a great deal of inferential technical analysis on primarily Latin American securities.
- Contributed to BSI's strategy for standing up a future AI team as an early practitioner at the bank.
- Ultimately presented the results of all these lines of inquiry to a full session of BSI's executive committee.

PURE Property Management   **Los Gatos, CA**
Business Development Intern   June 2023 – April 2024
- Independently restarted an internal project to index property acquisition targets, blending open-source data with proprietary records.
- Overhauled the existing process to rely on a novel artificial intelligence model, supported by custom-developed data validation tools.
- Contributed artificial intelligence-driven analytics to the buy box for determining acquisitions of other property managers.
- Designed guidelines and procedures for organizational data management, avoiding a major expenditure for the firm on a CIO.
- Simulated various rental markets using internal rental data and public market information to optimize rental listings and renewals.

Wharton Venture Lab   **Philadelphia, PA**
Fellow and Product Marketing Intern   September 2022 – May 2023
- Awarded a fellowship in the Venture Initiation Program to assist Ensemble Consultancy as a product marketing intern.
- Wrote Ensemble's go-to-market strategy for bringing its government-facing products to the private sector in its Space Labs division.
- Conducted market research to evaluate product fit, generating product ideas to extend the applicability of Ensemble's space weather API.
- Designed targeted email marketing templates and campaigns based on insights obtained from relevant market research.
- Delivered a letter of intent pipeline (client database, demo scheduler, and email templates) for an upcoming funding round.

Clarifi Education PBC   **Philadelphia, PA**
Backend Engineer   May 2022 – August 2022
- Venture Lab Startup Internship Grant to contribute to Clarifi's platform for boosting educational outcomes in children with ADHD.
- Implemented the entirety of the app's Google Classroom integration in Django using Python, JavaScript, and HTML.
- Developed a Chrome extension, allowing students to easily bring their tasks and tabs into Clarifi's locked-down desktop workspace.
- Wrote detailed documentation files describing architecture, functionality, and next steps for all relevant projects undertaken at Clarifi.

Yale University School of Medicine   **New Haven, CT**
Computational Biology Intern (supervised by Professors Yuval Kluger and Ofir Lindenbaum)   July 2019 – January 2022
- Independently analyzed patient data to identify small molecules with translational potential for non-invasive psoriasis treatments.
- Through the Department of Pathology's interdisciplinary collaboration with the Program in Applied Math, performed quality-control tests of the lab's novel machine learning algorithms, contributing these results as an author on a paper published in September 2021.
- Became one of the lab's primary reviewers after demonstrating proofreading and editing skills that boosted paper acceptance rates.

LEADERSHIP & AWARDS

ComicBooks For Kids: Penn-Drexel Chapter, *Vice-President*   May 2022 – Present
- Philadelphia chapter of ComicBooks for Kids: world's largest charity for comic books and pop culture materials

Hispanic Scholarship Fund, *Scholar and Alumnus*   December 2021 – Present
- Recipient of scholarship offered to the top Hispanic undergraduate and graduate students in the United States.

National Security Language Initiative for Youth (NSLI-Y), *Finalist*   Summer 2020; Summer 2021
- U.S. Department of State program providing overseas language study through highly selective scholarships.
- Received a Novice-High certification in Russian on the ACTFL Oral Proficiency Interview at the end of the program.

Other Affiliations: Columbia University Science Honors Program, Columbia Experimental Gravity Group, Penn Digital Neuropathology, Penn Office of Investments Diversity Leadership Program, Penn Dining Advisory Board, The Corporation of the Pennsylvania Post

CERTIFICATIONS & SKILLS

Languages: Spanish (Native; Level C1 Certificate), German (Professional Working Proficiency), Russian (Limited Working Proficiency)
Technical: Microsoft Office Suite, R, Python, JavaScript, HTML, Unix Shell, Cloud Computing, Research Computing
Certifications: CITI Program Biomedical Research, CITI Program Biomedical Responsible Conduct of Research
Work Authorizations: US/EU Dual National, UK Resident