

EDUCATION

A.B. in Physics, Secondary Field in Computer Science

Harvard University

Sep 2020 – May 2024

Cambridge, MA

GPA: 3.74/4.00 · Language Citation in Chinese

Relevant courses: Data Science 1 & 2, Applied Linear Algebra and Big Data, Intro to Probability, Discrete Mathematics

WORK EXPERIENCE

Assistant Language Teacher

Japan Exchange and Teaching (JET) Program

Jul 2025 – Present

Yokote, Akita, Japan

- Serve as an English instructor at two rural Japanese senior high schools, planning and leading lessons, creating assignments, and providing evaluations.
- Teach classes for neurodiverse learners; collaborate with teachers on materials and curriculum.
- Coach students for speech contests, debates, and academic competitions; design cultural-exchange events.

Private Tutor

Freelance; also Harvard Student Agencies (2020–22) and East End Tutors (2022)

Sep 2020 – Present

Hybrid

- Develop curricula and tutor students in mathematics, computer science, machine learning, and physics (grade school through college), adapting instruction for neurodiverse and non-native English-speaking learners.

Strategy and Analytics Intern

NYC Department of Small Business Services

Jun 2023 – Aug 2023

New York, NY

- Cleaned and geocoded data for thousands of businesses in the M/WBE (Minority and Women-Owned Business Enterprises) program using Python, Excel, QGIS, and the Google Geocoding API.
- Built visualizations and reports in Excel, Power BI, and Python used by government officials to monitor program success.

Research Assistant, ATLAS Experiment

CERN

Jun 2022 – Aug 2022

Geneva, Switzerland

- Independently ran daily tests on the ATLAS New Small Wheel (NSW) and analyzed two months of results with PyROOT, NumPy, SciPy, and Matplotlib, producing status reports that informed labor and funding decisions across multiple teams.

STEP Intern

Google, Chrome Web Store Team

May 2021 – Aug 2021

Remote (New York, NY)

- Planned and delivered three end-to-end features on an internal Chrome Web Store platform in a full-stack project using Kotlin, protocol buffers, gRPC, Guice, and Wiz.
- Wrote design documents and shipped production-ready code to a large codebase, incorporating feedback from code reviews.

PROJECTS

Automated Worksheet Reader (github.com/bellatarantino/scanner)

Fall 2026 (in progress)

- Building a Python pipeline (OpenCV, PyMuPDF, pandas) that converts scanned paper post-lesson reflections into structured data, preserving pen-and-paper practice without manual data entry.

Lesson Engagement Tracking (*independent research*)

Fall 2026 (ongoing)

- Tracking engagement of ~500 high school English learners across two schools in rural Japan, using worksheet-reader data and mixed-effects models (statsmodels); findings shared with JET Program supervisors to improve learning methods and track student progress.

SKILLS

Programming

Python, SQL, Java/Kotlin, JavaScript/TypeScript, HTML, Mathematica, L^AT_EX

Data Science & ML

pandas, NumPy, scikit-learn, Keras, TensorFlow, statsmodels, SciPy, Matplotlib, OpenCV

Tools

Git, Jupyter, Excel, Power BI, QGIS, Microsoft Dynamics

Languages

English (native), Mandarin Chinese (pre-advanced), Japanese (intermediate)