Jodi Yu

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EDUCATION

Boston University   **Boston, Massachusetts**
B.A. in Mathematics and Computer Science, GPA: 4.0   *Graduation Date: May 2026*

University of California, Santa Barbara   **Santa Barbara, California**
B.S. in Applied Mathematics, GPA: 3.95   *Date: Aug 2022 - June 2023*

Homestead High School   **Cupertino, California**
GPA: 3.97   *Date: Aug 2018 - June 2022*

WORK EXPERIENCE

STEPP Lab for Sensorimotor Rehabilitation Engineering   **Boston, Massachusetts**
Data Analysis Research Assistant   *November 2023 - July 2024*

- Investigated **auditory-motor functions** in speakers, focusing on how variation in auditory feedback impacted speech pronunciation within the 40-120 MS hearing timeframe.
- Conducted extensive data cleaning and pitch level analysis to ensure data consistency and reliability.
- Utilized **Matlab** to assess data usability, identify outliers, and ensure accurate voice tracking.

BU - Department of Computer Science   **Boston, Massachusetts**
CS111 Course Assistant   *September 2024 - Present*

- Conduct regular **office hours**, providing individualized instruction in **Python** to enhance students' understanding of key concepts, including recursive design, loops, dictionaries, and mutable data.
- Facilitate collaboration and in-depth dialogue during discussion sections.
- **Grade** and provide constructive feedback on student assignments, promoting progress and comprehension of course materials.

Association for Women in Mathematics, BU Chapter   **Boston, Massachusetts**
Treasurer   *September 2023 - Present*

- Direct the club's **budget allocation** through comprehensive financial planning, communicating with the BU Allocations Board to submit budget requests and spending reports.
- Organize and facilitate weekly meetings.
- Collaborate with the officer board to ensure seamless event planning within budgetary constraints.

PROJECT EXPERIENCE

[Missed Connections](#) - Full Stack iOS Social App
Frontend Developer

- Inspired by the nostalgia of Nintendo StreetPass, tracks user location throughout the day and algorithmically matches like-minded users to allow users to discover new connections.
- Implemented using Swift, Apple's Foundation framework, CoreLocation framework, MapKit, Django and Python, PostgreSQL, and Railway.
- **Outcome:** Won Automatic Admission into *Spark! Technology Innovation Fellowship Course* at BostonHacks.

[Tilings and Topological Disks](#) - Math Research Presentation
Directed Reading Program Researcher

- Conducted an independent study on tiles as closed topological disks and categorizations of plane tilings.
- Collaborated weekly with a math grad student to discuss concepts in topology.
- **Outcome:** Presented research findings to peers and math department faculty.

[Racial Demographics in Higher Education](#) - Data Analysis Project
Data Analyst

- Analyzed the interplay between racial composition, socioeconomic status, and post-grad earnings in higher education using R.
- Extracted, cleaned, and processed large dataset from the U.S. Department of Education to ensure accuracy.

SKILLS & INTERESTS

Programming languages: C++, C, Python, Java, Swift, Matlab, Assembly, R
Coursework: Disct Math | Lin Alg | Diff Eq | Phys I | Data Sci I-II | Vector Calc | Data Struct | Adv Stat and Prob | Comp Systems | Algorithms
Clubs: Edge Contemporary and Jazz Dance Company, Dance Theater Group
Awards: Dean's List-College of Arts & Sciences, AP Scholar with Distinction, All-American Dancer by USA Dance