

Boyue Dong

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EDUCATION

University of Southern California | *Dean's List*

May 2026

Bachelor of Science in Applied and Computational Mathematics, Minor in Artificial Intelligence

Relevant Coursework: Data Structures and Algorithms, Probability Theory, Financial Markets, Linear Algebra, Differential Equations

TECHNICAL SKILLS

Technical skills: JAVA, Anaconda, C++ (Object-Oriented Programming, Data Structures and Algorithms), Python (Object-Oriented Programming), HTML, CSS, Visual Studio Code, Visual Studio, BlueJ, Windows Programming, Command Line Interface/Terminal, Data Analysis, Statistical Analysis, Cost Optimization, Bloomberg Terminal, Microsoft Office, Gsuite

PROFESSIONAL EXPERIENCE

Peak Design, San Francisco, CA
Data Analyst Intern

January - March 2024

- Implemented a regression model using SQL to ensure that the most searched keywords were prominently displayed on user interfaces, improving user experience and search efficiency on e-commerce products by 19% in the first quarter.
- Developed and distributed surveys to identify key customer demographics, increasing targeted marketing accuracy by 20%.
- Performed backend development operations with the Business Technology team to shape data for more usable views.
- Created regular reports on KPIs for marketing campaign effectiveness, identifying and reducing database errors by 25%.
- Collected data from various sources such as Peak Design's sales databases and web analytics tools like Google Analytics to gain comprehensive insights on product performance, customer satisfaction, and website engagement.

PM Warehouse, Pomona, CA
Marketing Analyst

Sept 2021 - Present

- Utilized SQL to analyze online marketing materials and identified unnecessary marketing expenses, which saved up to \$2500. Led a marketing team of 10 members to reach over 15k followers on multiple social media platforms in one year.
- Modified the predictive models on consumer preferences for appliances and increased e-commerce sales by 32%.
- Advised the Sales Team on in-person marketing procedures by drawing insights from predictive models built with Excel.

Revolutionary Press, Chino Hills, CA
Founder and Marketing Director

Nov 2020 - Sept 2021

- Directed a 20+ marketing team and collaborated with other nonprofit presses to assist 10 authors with their publications.
- Increased social media followers by 75% in half a year with data analysis on the targeted book community audience.
- Co-authored a book for elementary school curriculum on fundamental mathematics to increase the exposure of the company.

RESEARCH EXPERIENCE

USC Math Research | Undergrad Researcher (under Julian Chaidez)

April 2024-Present

- Authored a research paper on why piecewise isometry polytopes have zero topological entropy in the two-dimensional case.
- Proved that the multiplicity of repeated transformations on the isometry grows exponentially smaller in a high-order iterate.
- Extrapolated that piecewise isometry killing flow also has zero topological entropy and behaves simply and predictably.

LEADERSHIP AND EXTRACURRICULAR

USC Smart Women Securities Senior Analyst

Aug 2023 - Present

- Led a stock pitch on Adobe for the technology industry group, emphasizing a strong dividend history and global reach.
- Engaged with professionals in the finance industry to organize seminars and perform on-site office visits (Oaktree).
- Conducted ratio analyses, DCF, and LBO modeling and statements (balance sheet, income statement, cash flow statement).

USC Math Club Chair of Technology Team

Aug 2023 - Present

- Led a team of 10 students to construct a website for a collection of essential math resources using HTML and CSS.
- Organized and participated in the annual Social Integral Bee against UCLA and Caltech and helped USC achieve **2nd place**.