

Justin Chen

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EDUCATION

Texas A&M University

Master of Science in Quantitative Finance
Mays Business School

College Station, Texas

May 2028

Cumulative GPA: In Progress

Texas A&M University

Bachelor of Science in Applied Mathematics (Statistics Emphasis)
College of Arts & Sciences

College Station, Texas

May 2027

Cumulative GPA: 3.89/4.00

Honors: Mathematics Honors

PROFESSIONAL EXPERIENCE

Math Learning Center

Tutor

College Station, Texas

January 2025 – Present

- Provided individualized tutoring in differential equations, helping approximately 30 students strengthen conceptual understanding and problem-solving strategies through clear, concise explanations
- Translated complex mathematical theories into accessible language, tailoring instruction to accommodate diverse learning styles and academic backgrounds weekly
- Fostered student confidence and independent learning by breaking down abstract concepts into manageable steps and offering practical examples

ShareTea

Shift Lead

Frisco, Texas and College Station, Texas

December 2022 – December 2024

- Ensured satisfaction of 175+ customers per shift while maintaining cleanliness of the store by handling mistakes, complaints, and busy hours
- Managed and delegated 3-5 coworkers every shift to effectively operate during rush hours by assigning roles according to worker strengths
- Demonstrated patience and conflict-resolving skills when confronted with difficult customers or coworkers

Digital Content Creator

Video Editor

Remote

October 2017 – September 2023

- Increased a YouTube channel to 33,400 subscribers by targeting a specific niche and using the YouTube algorithm
- Five years of creative video editing experience in Sony Vegas Pro and Adobe Premiere

INVOLVEMENT & PROJECTS

SCUDEM 2025 Mathematical Modeling Competition — AI Model Collapse

Team Leader

College Station, Texas

September 2025 – November 2025

- Collaborated on a research-style mathematical model exploring how recursive AI training leads to “model collapse.”
- Combined compartmental differential equation theory and Python simulation to demonstrate how the propagation of AI-polluted data across interacting generative models affects long-term data integrity.
- Produced Python visualizations (bifurcation curves, contour maps, stochastic simulations) using NumPy and Matplotlib.

TAMU Datathon

Data Visualization & Forecasting Dashboard (Hackathon Project)

College Station, Texas

November 2025

- Used Python, Streamlit, Pandas, Plotly, and Excel to build an interactive inventory management dashboard that visualized sales, ingredient usage, and shipment data to reduce waste and predict ingredient restock needs.
- Processed and merged multiple restaurant datasets to uncover spending patterns and seasonal trends.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in Chinese

Technical Skills: Proficiency in Python, Java, C++, R, Tableau

Certifications & Training: Wall Street Prep Excel, Wall Street Prep PowerPoint, Khan Academy Finance and Capital Markets

Relevant Coursework: Probability, Stochastic Calculus, Financial Accounting, Differential Equations

Activities: MSQF Student, Chess Club, Math Tutor, Data Science Club, Datathon, SCUDEM

Interests: Math, Chess, Music (Piano and Marching Band), Ice Skating, Boxing