Annika Nie

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EDUCATION

UCLA ANDERSON SCHOOL OF MANAGEMENT Los Angeles, CA
Master of Financial Engineering GRE: 165 Quant Expected Dec 2027

- *Activities: VP of Careers & VP of Communication, MFE Student Council (2026-2027)*
- *Relevant Courses: Financial Accounting, Investments, Stochastic Calculus*

Relevant Courses: Optimization, Econometrics, Machine Learning with Applications

BRANDEIS UNIVERSITY Waltham, MA
B.S. in Applied Mathematics | B.A. in Economics | Minor in Business GPA: 3.53 Dec 2025

- *Awards:* Provost Scholar
- *Relevant Courses:* Optimization, Econometrics, Machine Learning with Applications, Financial Economics, Mathematical Statistics, Data Analytics and Statistics, Differential Equations

SKILLS & CERTIFICATIONS

- *Technical Skills:* MATLAB, Python, SPSS, SQL, Microsoft Office, Google Workspace, Statistical Modeling, Data Visualization, Image Processing, R, SAP for Business Analytics
- *Certifications:* SAP Business Analyst, SQL for Data Science, Introduction to Python Programming (Coursera)

EXPERIENCE

BRANDEIS UNIVERSITY Waltham, MA
Teaching Assistant in Financial Accounting June 2025- Dec 2025

- Instructed mandatory weekly recitations and held office hours, teaching and working students through core concepts and exercises in financial accounting.

SOUTH IRVINE DOLPHINS Irvine, CA
Summer youth swim team focused on competitive training, athlete development, and seasonal meets.
Head Swim Coach / Assistant Head Coach May 2021-Aug 2024

- Promoted from Assistant Swim Coach to Head Swim Coach, leading operations by supervising/scheduling assistant coaches, coordinating practice, and selecting swimmer events through team management systems.
- Coached swimmers ages 5–17 on stroke technique through individualized feedback during practices and meets.

DEPT of MATHEMATICS, UC IRVINE Irvine, CA
Research Assistant Dec 2022-Aug 2023

- Analyzed biological regeneration data by applying statistical modeling, data preprocessing, and visualization techniques to axolotl skin and limb regeneration datasets.
- Streamlined biological analysis by cleaning datasets and visualizing trends in MATLAB and Python.

XU LAB, CARNEGIE MELLON UNIVERSITY Pittsburgh, PA (remote)
Research Assistant Dec 2020-June 2022

- Contributed to research published at the British Machine Vision Conference by implementing statistical simulations in MATLAB for biomedical imaging analysis.
- Developed graph-based neural network models to segment spatial images for computational biology research.

PROJECTS

Financial Statement Analysis Project Aug 2024-Dec 2024

- Evaluated the relative investment strength of two public companies by analyzing audited financial statements, common-size statements, DuPont decomposition, key financial ratios, and cash flow drivers.
- Recommended the stronger investment opportunity by comparing industry trends and overall performance.

ADDITIONAL INFORMATION

- *Languages: Chinese (Intermediate)*
- *Volunteer Work:* South Irvine Dolphins (2019-2021), National Charity League (2015-2017)
- *Interests:* Swim (3x Varsity Team Captain), Crocheting, Tennis, Matcha, National Parks
- *Publications*: Scan-IT: Domain segmentation of spatial transcriptomics images by graph neural network. In Proceedings of the British Machine Vision Conference 2021 (Paper 406). BMVA Press.