

# Daniel Tse

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## EDUCATION

**University of North Carolina at Chapel Hill - Chapel Hill, NC** B.S. in Statistics May 2024

- **GPA:** 3.61/ 4.0 Degree with Distinction
- **Relevant Coursework:** Methods of Data Analysis, Decision Analytics, Mathematical

## DATA ANALYTICS PROJECTS AND COMPETITIONS

**Carolina Data Challenge: Predictive Analytics for NBA Betting Spreads Using Machine Learning**  
Spring 2024

- Developed a predictive model using advanced machine learning algorithms to analyze NBA game spread outcomes, achieving the second-highest accuracy in the class.
- Utilized regression analysis and random forest models to enhance the accuracy of predictions
- Developed a custom data preprocessing pipeline in R to clean, transform, and normalize large datasets

**UNC Course STOR 320: Chicago Crime Data Project** Spring 2023

- Created a semester-long project analyzing crime dataset from Kaggle regarding crime in Chicago
- Created dynamic crime maps using R plotting tools to visualize crime hotspots through heatmaps and GIF animations with ggplot.
- Delivered compelling presentations to share project insights, highlighting associations between crime rates, poverty, and mental health

**UNC Hackathon: Dota 2 (Online Gaming) Draft Picker** Fall 2022

- Created a Python-based web scraping tool to extract real-time data from Dota 2, including character statistics, win rates, and game outcomes
- Designed algorithms to analyze character combinations and select the most effective team composition

## WORK EXPERIENCE

**Home Depot, Inc. - Charlotte, North Carolina** *Head Cashier* May 2023 - August 2023, *Cashier* May 2022 - August 2022

- Demonstrated leadership by overseeing and guiding a team of cashiers
- Assisted in inventory management by tracking sales and coordinating with store owner
- Optimized checkout processes to reduce wait times and enhance experience for customers

## LEADERSHIP AND VOLUNTEERING EXPERIENCE

**Musical Empowerment - Chapel Hill, North Carolina** *Leading Mentor* February 2021 - May 2024

- Orchestrated successful music events, engaging children from underserved communities in Carrboro
- Maintained open and effective communication with over 100 parents, addressing inquiries, gathering feedback, and fostering a strong parent-organization relationship
- Gathered parent feedback using Google Forms and Excel to implement data-driven improvements, aligning students with top-performing teachers

## TECHNICAL SKILLS

- R-Studio
- Excel
- Python
- Java