# Chase Mathis

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## Education

- **Duke University** — Durham, NC
  *Bachelor's of Science in Statistics and Computer Science, Math Minor; GPA: 3.9* — *August 2021-May 2025*
  - **Courses**:
    Data Structures and Algorithms,Machine Learning, Linear Algebra, Modern Bayesian
- **Deerfield Academy** — Deerfield, MA
  *High School Diploma* — *Aug 2017 - May 2021*
  - **Rising Scholars Mentor**:
    Assisted incoming students from underrepresented backgrounds adjust to Deerfield

## Experience

- **Duke Field Hockey** — Durham, NC
  *Data Analyst* — *Fall 2022*
  - Using vast amounts of messy data of historical games, I use Python to extract insights from the data and visualize them with Tableau
  - Analyze Duke's team over the course of the season using more data to help them know themselves better than their opponent does
- **Duke University Statistics Department** — Durham, NC
  *Undergraduate TA* — *Fall 2022*
  - Lead labs in STA 199, Introduction to Data Science, by helping students code in R for the first time and learn basic Statistical practices
- **Representative Susie Lee (U.S. Congresswoman – NV)** — Las Vegas, NV
  *Campaign Intern* — *Summer 2020*
  - Communicated with Representative Lee's constituents during the election year explaining key policies she supports including healthcare and sustainability
  - Directed constituents to COVID relief resources such as stimulus checks and free testing locations

## Academic Projects, Clubs, and Conferences

- **Duke Sports Analytics Club** — Duke University
  *Analyst* — *Fall 2021 -*
  - Learn, teach, and apply data science techniques to analyze sports
  - Presented findings to the club, to teach new techniques in data wrangling, predictive modeling, and trends in sports
  - Work with Duke Athletics to help them gain a competitive edge over their opponents
- **MLB Baseball Prediction** — Duke University
  *Duke Sports Analytics Club* — *Spring 2022*
  - Developed a logistic regression predictive model for MLB game results, and ultimately developed a 66% accurate model
- **Predicting Particle Clusters** — Duke University
  *Data Mining & Machine Learning* — *Fall 2022*
  - Developed a breadth of different models to predict the first four central moments of a particle cluster to help substitute our model for the computationally inefficient numeric solvers used for turbulent systems
  - Investigated the relationship between different parameters and their effect on how particles clustered together
- **Tapia Conference** — Washington D.C.
  *Diversity in Computing* — *Fall 2022*
  - Attended many talks hosted by diverse speakers regarding modern techniques in AI/ML

## Skills Summary

- **Languages**: Python, R, SQL, Java, Proficient in Mandarin
- **Libraries/Tools**: Pandas, NumPy, PyTorch, Tidyverse, Tidymodels, Keras, GIT, Matlab, Tableau, Regex