Nicole Dao

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Education

Virginia Tech   **August 2019 – Present**
Bachelor of Science in Computational Modeling & Data Analytics   *Blacksburg, VA*

Virginia Tech   **August 2019 – Present**
Bachelor of Science in Computational & Systems Neuroscience   *Blacksburg, VA*

Relevant Coursework

- Data Structures
- Math Modeling
- Regression Analysis
- Bayesian Statistics
- Machine Learning
- Internet Technology

Experience

Center for Biostatistics and Health Data Sciences   **August 2022 – Present**
Undergraduate Research Assistant   *Blacksburg, VA*

- Using REDCap to create surveys
- Utilizing R, Python, and SAS to analyze health data
- Working in study design, data management and analysis, power analyses, manuscript preparation, randomization scheme generation, etc.

Virginia Tech   **August 2021 – Present**
Computational Modeling & Data Analytics Peer Mentor   *Blacksburg, VA*

- Managing of a 10-15 group of first year students.
- Keeping attendance, leading small breakout groups, and grading assignments

General Dynamics Information Technology   **June 2022 – August 2022**
Data Analytics and Artificial Intellligence Intern   *Remote*

- Investigated and researched healthcare providers using SQL.
- Utilized Tableau to create dashboards for partners.
- Revised and formatted technical papers.

DataBridge   **August 2021 – December 2021**
Undergraduate Research   *Blacksburg, VA*

- Carried out a project using key data science principles/skills/languages
- Wrote a group final paper and filled in weekly progress reports
- Developed and delivered a final research presentation
- Utilized Google Data Studio to create a dashboard on demographic data

Projects

Extending MIT Sherlock's Utility for Financial Data | *Python, Github, Neural Networks*   **Present**

- Goal is to retrain the model using publicly available test data to improve accuracy with common semantic types used by our client, like address, age, social security, and city
- If time permits, will improve the newly trained model or develop an entirely new model that exceeds its current performance of Sherlock

Technical Skills

Languages: Python, Java, C, R, MATLAB
Developer/Statistical Tools: VS Code, Eclipse, Google Data Studio, Tableau, MiniTab
Technologies/Frameworks: Linux, GitHub

Activities / Honors

ASA Datafest   **April 2021**
Participant   *Virginia Tech*

- Yearly event where teams of undergraduates work around the clock to find and share meaning in a large, rich, and complex data set

Exodus at Virginia Tech   **September 2019 – Present**
Active Member   *Virginia Tech*

- A live and video dance and performance crew that focuses on presenting Korean Pop music to the public