

Sydney Louit

27 Brookwood Lane
Weston, CT, 06883

[LinkedIn](#)
[Personal email](#)

Education

- | | |
|---|-----------------------------|
| University of Connecticut | August 2022 – Present |
| <i>Ph.D., Statistics (In progress)</i> | <i>Storrs, CT</i> |
| <ul style="list-style-type: none">• Passed PhD Qualifying Exam in January 2022• Coursework includes Inference and Probability, research areas include network analysis and spatial statistics.• Vice-President of Graduate Student Committee in Statistics (since May 2023) | |
| University of Connecticut | August 2020 – December 2021 |
| <i>M.S., Biostatistics</i> | <i>Storrs, CT</i> |
| <ul style="list-style-type: none">• Coursework included Linear Models, Mathematical Statistics, Biostatistics, Data Management in SAS and R, Design of Experiments, Survival Analysis, Epidemiology, Statistical Consulting | |
| Cornell University | August 2017 – May 2020 |
| <i>B.S., Biometry & Statistics</i> | <i>Ithaca, NY</i> |
| <ul style="list-style-type: none">• Graduated one year early• Minors: Applied Economics, Astronomy• VP and Historian of Cornell Astronomical Society | |

Publications

- Sydney Louit, Mukul Ram, Kiel Williams, Alex Alduncin, Patrick McCaul, Scott Tranter (2022). "Psephological Correlated Simulation Techniques With Decision Desk HQ: For the 2022 Midterms and Beyond" *Harvard Data Science Review* 4 (4). <https://doi.org/10.1162/99608f92.e5a9a4b0>

Teaching Experience

- | | |
|--|---------------------------|
| Mathematical Statistics I (STAT 3375) | Fall 2023 |
| <i>Primary Instructor and Teaching Assistant</i> | |
| <ul style="list-style-type: none">• Taught an intermediate undergraduate course on mathematical statistics | |
| Elementary Concepts of Statistics (STAT 1100) | Fall 2023 and Spring 2024 |
| <i>Primary Instructor and Teaching Assistant</i> | |
| <ul style="list-style-type: none">• Taught a large lecture (200+ students) on introductory statistics | |

Work Experience

- | | |
|---|---------------------------|
| Data Science Leadership Development Program Intern | Summer 2023 |
| <i>Travelers</i> | |
| <ul style="list-style-type: none">• Under guidance from manager, created machine learning model and experimented with deep learning• Took advanced courses to improve proficiency in Python, SQL, Excel, and Git | |
| Data Scientist | June 2021 – February 2023 |
| <i>Decision Desk HQ</i> | |
| <ul style="list-style-type: none">• Assisted in creating live models• Made race calls on election nights• Developed election forecasting methodologies• With colleagues, wrote and published paper on correlated simulations | |

RMCL Lab Intern

Summer 2017 and 2018

PerkinElmer

Shelton, CT

- Validated data of the certified UV spectrometer
- Analyzed collected data
- Logged and shipped completed UV standards

Awards & Honors

First Prize - Poster Competition

NESS NextGen Data Science Day

November 2021

"Predicting Future Light Pollution Using VIIRS Satellite Data and OECD GDP Projections to 2060"

Speed Poster Award Winner

UConn Statistics in Pharmaceuticals Conference

August 2021

Projects

Light Pollution Economic Analysis

October 2021 – June 2022

- Used 90GB of satellite data to analyze economic growth in countries from 2013-2021. Currently working on an adjustment for oil-dependent economies, which appear much brighter than their economy would suggest.

FIFA World Cup Model

July 2021 – December 2022

- Created a Bayesian Poisson GLM to estimate team quality, then developed an efficient simulator for the structure of the World Cup qualifiers.

2020 Election Live Model

November 2020

- Wrote a Python program to pull live election results from online, paste in spreadsheet, and used the spreadsheet to calculate live probabilities for each state. Projected state and national outcomes in real-time

Specialized Skills

Spoken Languages: English (Native), French, Thai, Mandarin Chinese (mild conversational)

Programming (in order of proficiency): Python, R, SQL, SAS, C++

Software: Excel, LaTeX, Minitab

Machine Learning: Gradient Boosting, Random Forest, Ensembling

Deep Learning: Neural Networks, CNNs