Sydney Louit

27 Brookwood Lane
Weston, CT, 06883

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

Education

University of Connecticut
August 2022 – Present

Ph.D., Statistics (In progress) — *Storrs, CT*
- Passed PhD Qualifying Exam in January 2022

University of Connecticut
August 2020 – December 2021

M.S., Biostatistics — *Storrs, CT*
- 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

B.S., Biometry & Statistics — *Ithaca, NY*
- 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). (Accepted, publishing 10/27/22)

Work Experience

Data Scientist
June 2021 – Present

Decision Desk HQ — *Alexandria, VA*
- Assisted in creating live models
- Made race calls on election nights
- Developed election forecasting methodologies

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 – Present

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

FIFA World Cup Model — July 2021 – Present

- Created a Bayesian Poisson GLM to estimate team quality, then developed an efficient simulator for the structure of the World Cup qualifiers. Currently in development for 2022 World Cup

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

Programming (in order of proficiency): R, Python, SAS, Java
Software: Excel, LaTeX, Minitab