

Sydney Louit

27 Brookwood Lane
Weston, CT, 06883

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

Education

University of Connecticut

August 2022 – Present

Ph.D., Statistics (In progress, expected completion in 2025)

Storrs, CT

- Passed General Exam in November 2024
- Coursework includes Inference and Probability, research areas include network analysis and spatial statistics.
- Vice-President of Graduate Student Committee in Statistics (2023-2024 year)

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

- Zachary Donnini, **Sydney Louit**, Shelby Wilcox, Mukul Ram, Patrick McCaul, Arianwyn Frank, Matt Rigby, Max Gowins, Scott Tranter (2024). “Election Night Forecasting With DDHQ: A Real-Time Predictive Framework” *Harvard Data Science Review* 6 (4). <https://doi.org/10.1162/99608f92.ccb395f0>
- **Sydney Louit**, Jun Yan, Panpan Zhang, Evan Clark, Niketna Vivek, Alexander Gelbard (2024+). “CALF-SBM: A Covariate-Assisted Latent Factor Stochastic Block Model” *Submitted*
- **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

Statistical Methods (STAT 3025)

Fall 2024 and Spring 2025

Primary Instructor and Teaching Assistant

- Taught a sophomore-level undergraduate course on mathematical statistics

Elementary Concepts of Statistics (STAT 1100)

Fall 2023 and Spring 2024

Primary Instructor and Teaching Assistant

- Taught a large lecture (200+ students) on introductory statistics

Mathematical Statistics I (STAT 3375)

Fall 2023

Primary Instructor and Teaching Assistant

- Taught an intermediate undergraduate course on mathematical statistics

Work Experience

Data Science Leadership Development Program Intern

Summer 2023 and 2024

Travelers

Hartford, CT

- Under guidance from manager, created machine learning model and experimented with deep learning
- Learned and applied SAS skills to refresh an existing model with feature engineering
- Took advanced courses to improve proficiency in Python, SQL, Excel, and Git
- Part of a team that won program-wide coding competition in 2024
- Received an official job offer beginning in Fall 2025

Data Scientist

June 2021 – February 2023

Decision Desk HQ

Alexandria, VA

- Assisted in creating live models
- Made race calls on election nights
- Developed election forecasting methodologies
- With colleagues, wrote and published paper on correlated simulations
- Worked during 2024 election night, and was part of the team that correctly projected most races before all other networks

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

JSM Student Paper Award

ASA - American Statistical Association

February 2025

"CALF-SBM: A Covariate-Assisted Latent Factor Stochastic Block Model"

Student Paper Award - Honorable Mention

ICSA - International Chinese Statistical Association

May 2024

"CALF-SBM: A Covariate-Assisted Latent Factor Stochastic Block Model"

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

External Projects

Chessbot

July 2024 – Present

- Coding project in C++ to design a chess-playing bot. Currently plays at approximately a 1400 Elo rating.

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, SAS, SQL, C++

Software: Excel, LaTeX, Minitab

Machine Learning: Gradient Boosting, Random Forest, Ensembling

Deep Learning: Neural Networks, CNNs