

# DANA ANNALISE GOLDEN

## Economist and Data Scientist

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## EDUCATION

Doctorate of Philosophy, Economics (current)

**Stony Brook University**

📅 August 21-May 26 📍 Stony Brook, New York

Master's of Science, Analytics (Machine Learning)

**Georgia Institute of Technology**

📅 August 20-August 22 📍 Atlanta, Georgia

Master's of Science, Economics

**Georgia Institute of Technology**

📅 August 18- May 19 📍 Atlanta, Georgia

Bachelor of Science, Economics

**Georgia Institute of Technology**

📅 August 16 - August 18 📍 Atlanta, Georgia

## DISSERTATION RESEARCH

**Electricity Transmission and Market Dynamics**

- Co-advisors: Yiyi Zhou and Steven Stern
- Studying economic impacts of increased transmission on generator investment
- Developing model extending prior electricity market frameworks to transmission
- Performing dynamic programming analysis to understand impacts of increasing transmission on market dynamics

## INTERNSHIPS

Data Scientist Intern

**Department of Treasury Bureau of Fiscal Service**

📅 Summer 2023 📍 Washington D.C.

- Utilized USAspending API data to perform causal inference
- Joined data from USAspending and other sources using reproducible API calls to facilitate analysis
- Worked with other data scientists to develop monthly report on award spending

Economist Intern

**Federal Energy Regulatory Commission**

📅 Summer 2022 📍 Washington D.C.

- Programmed dashboard with SQL and Rshiny combining data on natural gas and electricity markets for improved market anomaly detection incorporating machine learning algorithms including isolation forest, PCA, and SVM
- Developed automatically-updating ARIMA forecasting model for monthly and daily electricity contracts in Python

## SKILLS

Python, Tableau, SQL, R, Spark, Stata, Excel ●●●●●●  
JS, Scala, Julia, Matlab, Fortran, Pytorch ●●●●●●

## EXPERIENCE

NSF Funded Research Fellow

**BIAS-NRT: Detecting and Addressing Bias in Data, Humans, and Institutions**

📅 May 23-Current 📍 Stony Brook, New York

- Participating in weekly, interdisciplinary research seminars
- Pursuing an Advanced Graduate Certificate in Artificial Intelligence
- Utilizing economic expertise to research economics of racial wealth gap
- Designing studies on economic questions as part of an interdisciplinary team of researchers
- Performing web-scraping and economic modelling tasks in pursuit of research goals

Graduate RA

**Stony Brook University**

📅 May 23-Current 📍 Stony Brook, New York

- Advisor Eva Carceles-Poveda: Analyzing financial Compustat data with Python to understand the impact of shareholder disagreement on firm-level TFP
- Spellman High Voltage Power Electronics Lab: Performing research on the impacts of pricing structure on entry and exit in the European offshore wind market
- Performing research related to the economic facets of offshore wind

Graduate TA

**Stony Brook University**

📅 August 21-Current 📍 Stony Brook, New York

- Instructor of record: Economics and Sustainability, Teaching Assistant: Introduction to Economics, data science and machine learning (Undergraduate) statistics, econometrics (graduate)
- Trained students in R, Tableau, and Excel for advanced statistical analysis

Agricultural Economist

**USDA Economic Research Service**

📅 Sep 19-July 21 📍 KC, Missouri

- Published oil crops and season average price data products while contributing to oilseeds and wheat outlook reports and various visualizations based on the reports and data
- Designed and implemented the state trade data product and associated database
- Taught division-wide SQL and trainings related to machine learning and various software