Dana Annalise Golden

PhD Candidate Economics · Stony Brook University

700 Health Sciences Drive, Stony Brook, NY 11790

✉ dana.golden@stonybrook.edu | ⌂ https://jgolden36.github.io/ | in https://www.linkedin.com/in/dana-golden-factor/

Education

Stony Brook University *Stony Brook, New York*
DOCTOR OF PHILOSOPHY, ECONOMICS *2021 - 2026*
- Advisors: Yiyi Zhou and Steven Stern
- Certificate in Artificial Intelligence

Georgia Institute of Technology *Atlanta, Georgia*
MASTER OF SCIENCE, ANALYTICS *2020 - 2022*
Concentration: Machine Learning

Georgia Institute of Technology *Atlanta, Georgia*
MASTER OF SCIENCE, ECONOMICS *2018 - 2019*

Georgia Institute of Technology *Atlanta, Georgia*
BACHLEOR OF SCIENCE, ECONOMICS *2016 - 2018*

Professional Experience

2023-Current	**NSF Funded Research Fellow**, BIAS-NRT: Detecting and Addressing Bias in Data, Humans, and Institutions
Summer 2023-May 2024	**Graduate Research Assistant**, Spellman High Voltage Power Electronics Lab
2023	**Graduate Research Assistant**, Eva Carceles-Poveda
2022-2024	**Writing Center Tutor**, Stony Brook Writing Center
Summer 2023	**Data Scientist Intern**, Bureau of the Fiscal Service
Summer 2023	**Economist Intern**, USDA Economic Research Service
2022-2023	**Microenomics PhD Tutor**, Stony Brook Economics Department
Summer 2022	**Economist intern**, Federal Energy Regulatory Commission
2019-2021	**Agricultural Economist**, USDA Economic Research Service
2017-2019	**Peer Tutor**, Georgia Tech Athletic Association
Summer 2017	**Financial Management Student Intern**, Defense Finance and Accounting Service

Working Papers

Deepi Singh, Dana Golden, Gaurav Bhansali, Ali Anwar, Shreepooja Singh, Fang Luo, Yiyi Zhou. 2023. Offshore Horizons: HVDC Wind Farms - Exploring Techno-Economic Dimensions.

Works in Progress

Investment and the Transfer of Power: Dynamic Effects of Transmission in Electricity Markets.

Non Linear Dividend Taxation and Shareholder Disagreement. (with Alexis Anagnostopoulos, Eva Carceles-Poveda, and Gabriel Mihalachel)

The International Determinants of Shareholder Disagreement. (with Alexis Anagnostopoulos and Eva Carceles-Poveda)

Industrial Policies in a Market with Environmental Externalities: Evidence from the Chinese Solar Panel Industry. (with Yiyi Zhou and Xiangjun Ma)

Commodity Markets LLM-based Futures Forecasting. (with Dikshya Mohanty, and Khushboo Singh.)

Stochastic optimal control for renewable energy generation augmented by energy storage systems. (with Deepi Signh)

Conference Presentations

Dana Golden, Dikshya Mohanty, and Khushboo Singh. 2025. Commodity Markets LLM-based Futures Forecasting. Southern Agricultural Economics Association.

Dana Golden, Dikshya Mohanty, and Khushboo Singh. 2024. Transformers but not the Kind You're Thinking of: Commodity Market Forecasting using Natural Language Processing. Economics & Computation. Poster.

Eva Carceles-Poveda, Alexis Anagnostopoulos, Dana Golden, and Gabriel Mihalachel. 2024. Non Linear Dividend Taxation and Shareholder Disagreement. Midwestern Macro.*

Dana Golden. 2020. Can an AI figure out whether an AI can take my job? Structural Blueprint for AI-generated Academic Papers in Economics. AAEA.

Dana Golden. 2020. Solving the Basis Aggregation Problem. AAEA. Poster.

Dana Golden. 2020. Agricultural basis from a game theoretic perspective. AAEA. Poster.

Government and Industry Publications

Comparative Study & Networked Benchmarking of Power Electronics Architectures for HVDC OSW Energy Integration: May 2024

Oilseeds Outlook Report: May 2020-July 2021

Wheat Outlook Report: December 2020-January 2021

Awards, Fellowships, & Grants

2024-2025	**OVPR Seed Grant (with Eva Carceles-Poveda and Ria Rajiv Shah)**, Stony Brook University Office of Proposal Development	*$ 40,000*
2023-2025	**NSF BIAS-NRT Research Fellowship**, National Science Foundation	*$ 74,000*
2021-2026	**Department of Economics Diversity Fellowship**, Stony Brook University Economics	*$ 75,000*

Teaching Experience

Fall 2025	**Economics of Environmental and Natural Resources**, Instructor
Summer 2025	**Data Science and Machine Learning**, Instructor
Winter 2025	**Economics of Environmental and Natural Resources**, Instructor
Summer 2024	**Data Science and Machine Learning**, Teaching Assistant
Fall 2023	**Economics and Sustainability**, Instructor
Spring 2023	**Economics and Sustainability**, Instructor
Spring 2023	**Econometrics (graduate)**, Teaching Assistant
Fall 2022	**Mathematical Statistics (graduate)**, Teaching Assistant
Spring 2022	**Introduction to Economics**, Teaching Assistant
Fall 2021	**Introduction to Economics**, Teaching Assistant
Spring 2019	**Philosophy of Science, Technology, and Human Values**, Teaching Assistant *Georgia Tech*

Outreach & Professional Development

SERVICE AND OUTREACH

2022-2023	**Graduate Student Organization**, Chair of Board of Appeals
2024	**Stony Brook University Game Theory Conference**, Volunteer
2022-2023	**Economics Graduate Student Departmental Grievance Committee**, Student Representative
2021-2025	**Graduate Student Organization**, Economics Senator
2020-2021	**Books Not Bombs**, Tutor
2020-2021	**AEA LGBT Mentoring Program**, Mentor
2017-2022	**Georgia Tech and Archer high school debate teams**, Debate Judge
2019	**Pipeline Project**, Mentor

Skills

- **Programming and Scripting:**
- Python (NumPy·Pandas·GeoPandas·PyTorch·TensorFlow)
- Julia, R, Matlab, Stata, SQL (PostgreSQL/BigQuery)
- Scala, Dask, &PySpark / Spark SQL
- Fortran & CUDA accelerated JAX
- JavaScript (D3/Plotly) & Tableau
- **Machine Learning / AI**:
- Supervised & unsupervised ML (Isolation Forest, PCA, SVM; ARIMA/LSTM time series)
- Reinforcement Learning (Rllib, Gym, deep Q-learning)
- Transformers, Computer vision, & LLM fine tuning (HuggingFace, LoRA/PEFT, OpenCV, NLTK)