Antony Sikorski

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EDUCATION

Colorado School of Mines Aug 2022 – Present
PhD: Statistics Golden, CO

Colorado School of Mines Aug 2022 – May 2024
MS: Data Science, Machine Learning Golden, CO

University of California, San Diego Sept 2018 – Dec 2021
BS: Applied Mathematics, Minor in Physics San Diego, CA

EXPERIENCE

Meta May 2025 – Aug 2025
Reality Labs – Data Scientist Intern San Francisco, CA
- Formulated custom convex optimization procedures for Reality Labs with cvxpy and pyomo in Python.
- Developed and implemented a suite of deep learning and time series forecasting models.
- Leveraged geospatial data to build tools and visualizations to aid leadership in key decisions.

LEAP @ Columbia May 2024 – Aug 2024
AI Research Fellow New York, NY
- Applied deep learning and equation discovery to create interpretable parameterizations that improve climate model accuracy.
- Mentored two undergraduate students during their REU, resulting in their first conference presentation.
- Led introductory workshops on data visualization, Jupyter notebooks, deep learning with PyTorch, and version control.

NASA Jet Propulsion Laboratory May 2023 – August 2023
Machine Learning Intern Los Angeles, CA
- Developed an unsupervised anomaly detection system using adversarially trained auto-encoders for multivariate time series (Deep Space Network antenna data).
- Designed custom parsers and automated several previously manual data acquisition pipelines, leveraging LLMs to rapidly process the results. Routines that once occupied hours of engineers' time now occur in seconds.

Excelitas Technologies Corp Feb 2022 - Mar 2023
Data Analytics Engineer Boulder, CO
- Identified critical to quality factors and relationships to aid the process engineering team in implementing statistically-informed improvements to maximize product quality and yield.
- Frequently presented results to upper management and aided with strategic decision making.

SKILLS

Programs/Languages: R, Python, PostgreSQL, Presto, Spark, Git, Julia, LATEX, Jupyter Notebooks, RMarkdown
Notable Packages: PyTorch, TensorFlow, Keras, PySR, Pandas, Scikit-learn, ggplot2, dplyr, doParallel
Software Development: LatticeKrig R package 80,000+ downloads (new version released), fields R package 3,500,000+ downloads (currently developing new features, releasing soon)
Core: Statistical Modeling, Deep Learning, AI, LLMs, Data Visualization, Software Development, Version Control
Spoken Language: English (fluent), Russian (fluent), Spanish (beginner)

AWARDS

NSF GRFP Fellow Sept 2024
- Awarded the National Science Foundation Graduate Research Fellowship with a total award of $100,000+, resulting in 3 years of full funding for my PhD research.

SELECT PUBLICATIONS

- "LatticeVision: Image to Image Networks for Modeling Non-Stationary Spatial Data", **A. Sikorski**, M. Ivanitskiy, N. Lenssen, D. Nychka, D. McKenzie, *International Conference on Artificial Intelligence and Statistics (AISTATS)* (2026).

- "Normalizing Basis Functions: Approximate Stationary Models for Large Spatial Data", **A. Sikorski**, D. McKenzie, D. Nychka, *Stat* (2024).