

# Antony Sikorski

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## EDUCATION

### Colorado School of Mines

*PhD: Statistics*

Aug 2022 – May 2026

Golden, CO

### Colorado School of Mines

*MS: Data Science, Machine Learning*

Aug 2022 – May 2024

Golden, CO

### University of California, San Diego

*BS: Applied Mathematics, Minor in Physics*

Sept 2018 – Dec 2021

San Diego, CA

## EXPERIENCE

### Meta

*Reality Labs – Data Scientist Intern*

May 2025 – Aug 2025

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 custom tooling to aid leadership in key decisions.

### LEAP @ Columbia

*AI Research Fellow*

May 2024 – Aug 2024

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

*Machine Learning Intern*

May 2023 – August 2023

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

*Data Analytics Engineer*

Feb 2022 - Mar 2023

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, *arXiv* (2025).
- “Normalizing Basis Functions: Approximate Stationary Models for Large Spatial Data”, **A. Sikorski**, D. McKenzie, D. Nychka, *Stat* (2024).