

# Antony Sikorski

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## EDUCATION

<b>Colorado School of Mines</b> <i>PhD: Statistics</i>	Aug 2022 – May 2026 Golden, CO
<b>Colorado School of Mines</b> <i>MS: Data Science, Machine Learning</i>	Aug 2022 – May 2024 Golden, CO
<b>University of California, San Diego</b> <i>BS: Applied Mathematics, Minor in Physics</i>	Sept 2018 – Dec 2021 San Diego, CA

## EXPERIENCE

<b>Meta</b> <i>Reality Labs – Data Scientist Intern</i>	May 2025 – Aug 2025 San Francisco, CA
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- Developing scalable optimization procedures at Reality Labs.

<b>LEAP @ Columbia</b> <i>AI Research Fellow</i>	May 2024 – Aug 2024 New York, NY
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- 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.

<b>NASA Jet Propulsion Laboratory</b> <i>Machine Learning Intern</i>	May 2023 – August 2023 Los Angeles, CA
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- 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.

<b>Excelitas Technologies Corp</b> <i>Data Analytics Engineer</i>	Feb 2022 - Mar 2023 Boulder, CO
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- 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, Hive, Git, Julia,  $\text{\LaTeX}$ , 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

<b>NSF GRFP Fellow</b>	Sept 2024
• Awarded the <a href="#">National Science Foundation Graduate Research Fellowship</a> 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).
- R Package LatticeKrig, D. Nychka, D. Hammerling, S. Sain, N. Lenssen, C. Smirniotis, M. Iverson, **A. Sikorski** (2024)