

Antony Sikorski

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EDUCATION

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

EXPERIENCE

LEAP @ Columbia <i>AI Research Fellow</i>	May 2024 – Aug 2024 New York, NY
<ul style="list-style-type: none">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 <i>Machine Learning Intern</i>	May 2023 – August 2023 Los Angeles, CA
<ul style="list-style-type: none">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 <i>Data Analytics Engineer</i>	Feb 2022 - Mar 2023 Boulder, CO
<ul style="list-style-type: none">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, SQL, Git, Julia, \LaTeX , Markdown
Notable Packages: PyTorch, TensorFlow, Keras, 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
<ul style="list-style-type: none">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

- "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)
- "Crystal Growth of Quantum Magnets in the Rare-Earth Pyrosilicate Family R₂Si₂O₇ (R = Yb, Er) Using the Optical Floating Zone Method", H.S. Nair, T. DeLazzer, T. Reeder, **A. Sikorski**, G. Hester and K.A. Ross, *Crystals* (2019).