

ALEX KARP

OBJECTIVE

Exploring problems at the intersection of renewable energy, statistics, and computer science.

EDUCATION

PERIOD	September 2021 — June 2025
DEGREE	B.S. Statistics & Data Science, Mathematics
UNIVERSITY	University of California, Los Angeles

RESEARCH

PERIOD	May 2024 — Present
TITLE	CREAS Lab, Washington State University, Vancouver <ul style="list-style-type: none">— Use OpenFAST simulation and Monte Carlo methods to develop and evaluate statistical models of wind farm power and revenue generation.— Analyze large wind data sets from the ERA5 API using R and MATLAB.

PERIOD	April 2023 — June 2023
TITLE	Matroid Galois Groups <ul style="list-style-type: none">— Used tools like Git and BASH to search large databases with team members.— Wrote optimized SageMath and Java code to decode and analyze billions of Matroid Galois Groups.

EXTRA-CURRICULAR

PERIOD	May 2022 — Present
TITLE	Shenanigans Comedy Club, Vice-President <ul style="list-style-type: none">— Manage over ninety members spread across eight separate departments.— Acquire venues, book headliners, and advertise our weekly shows.— Write, act, and direct sketches as well as running regular writing workshops.

WRITING

Ivan Karp, Chris Qin — Data-Driven Modeling of Wind Farm Power and Revenue Generation.
[Presented at the IEEE Big Data 2024 REU Symposium, Washington D.C.]

SKILLS

Computer Languages	R, C++, Python, Java, MATLAB
Human Languages	Spanish, Russian
Technologies	Latex, Excel, SQL

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