


# About Me

-  [samforeman.me](https://samforeman.me)
  - [Data Science @ ALCF](#)
- Undergrad (2010 — 2015):
  - UIUC:
    - Engineering Physics
    - Applied Mathematics
- Grad School (2015 — 2019):
  - University of Iowa
    - PhD. Physics
    - ["A Machine Learning Approach to Lattice Gauge Theory"](#)
- Postdoc (2019-2022) @ ALCF

## • Current Research:

- [AI + Science:](#)
  - [GenSLMs: Genome-scale language models reveal SARS-CoV-2 evolutionary dynamics\\*](#)
  - [Building better sampling methods for Lattice QCD](#)
  - [Foundation models for long term climate forecasting](#)
- [Scaling Large Language Models](#)
  - [Optimizing distributed training across thousands of GPUs](#)
  - Building new parallelism techniques for efficient scaling
- You can get a live view of some of my recent talks [here](#)

*\*[ACM Gordon Bell Special Prize for HPC-Based COVID-19 Research](#)*

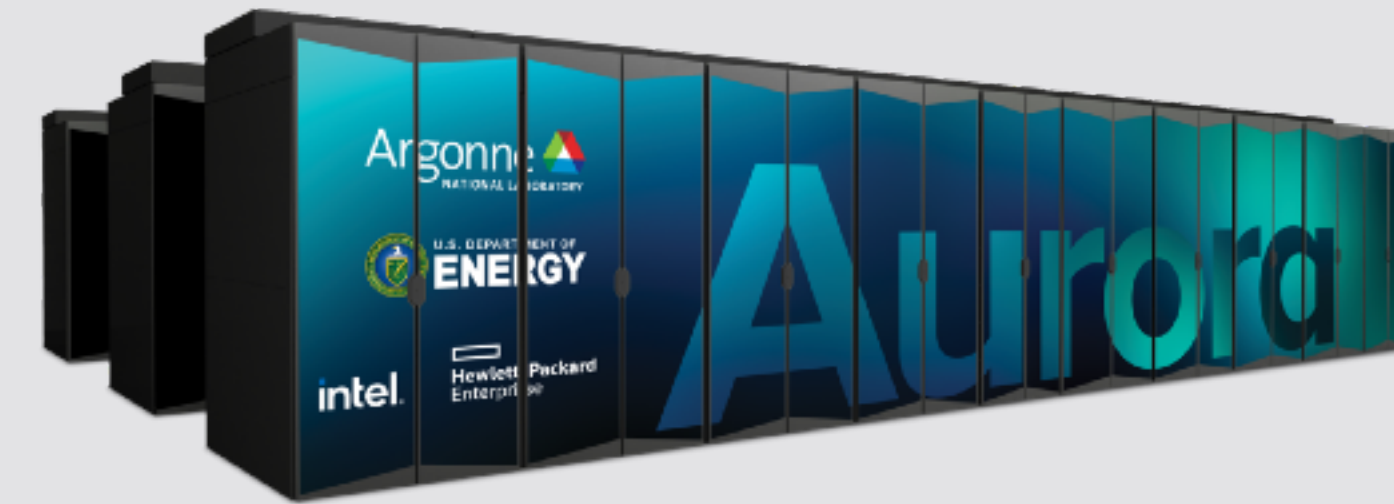


# Argonne Leadership Computing Facility (ALCF)



The [ALCF](#) provides world-class computing resources to the scientific community.

- Users pursue scientific challenges
- In-house experts help maximize results
- Resources **fully dedicated to open science**



Architecture supports three types of computing:

## 1. Large-scale Simulation

- PDEs, traditional HPC

## 2. Data Intensive Applications

## 3. Deep Learning and Emerging Science AI

- Training + inference
- Scalable pipelines



**ALCF offers different pipelines based on your computational readiness.**

(Apply to the allocation program that fits your needs)

