

Proposal One-Pager

Nicholas Adams Judge, PhD

What

A quant fund governed by an AI software stack, capable of benefitting from inputs - data and algorithms - at scale.

That scale is sufficient not just for a fund, but for a decentralized network of scientists and quant developers. The AI system organized as a traditional fund could thus become the progenitor of, and participant in, a decentralized fund with favorable economies of scale.

The initial focus is on crypto assets over intra-day timelines. The system grows in accuracy as more asset classes are added.

Why

The multi-year development cycle of systematic strategies prevents their easy scalability. By creating a system that intelligently assembles and assesses *components* of forecasts, two important feats are accomplished:

1. The scientific research process is architected towards exponential progress
2. The minimal labor cost of contributing to that process is shrunk by orders of magnitude

How

A binary genetic algorithm (GA) is designed to assess features and algorithms simultaneously while minimizing computational costs. This organizes a constantly-evolving universe that is a scaled version of the scientific research method.

Internal Scalability → Decentralizability

The process is, simply, evolution. If you want to contribute a gene - data or algorithm - to the gene pool, you can. If it is good, it reproduces. If not, it dies.

Why Now

This project would not be technically feasible five years ago. Full time work began two years ago. The remaining roadmap is 4-6 months long. Funding is appropriate at this point because efficacy is related to scale.

Who

Nicholas Adams Judge, Ph.D., *Cofounder*: A political economist whose research focused on the use of GARCH models to examine large covariance matrices as they change over time, Nick has worked full time in crypto since 2016.

Marc Ratkovic, *Cofounder*: An Assistant Professor in the Department of Politics at Princeton University and associate at Princeton's Center for Statistics and Machine Learning, Marc's research has received more than a thousand citations and a number of awards.

Gina Ackerman, *Operations*: Gina was the Director of External Relations under Jeffrey Sachs at Columbia's Earth Institute, focused on growing private revenue for the UN's Millennium Development Goals. Gina holds an MA in Quantitative Studies for Finance from Columbia University.