Signal From Noise

Quantum creates uncertainty → Risk → code → Random variables

we can measure and simulate these.

At the very fundamental level, we rely on random number generators for encryption and trustworthy sampling. A famous example is with Lava Lamps which create RNGs.

See the conceptual guide on Quantum vs. Classical and Plain Language guide.

Game Theory & Econometrics: Studying the Universe as a Canvas of Strategy

Classical physics often treats the universe as perfectly deterministic — like a clockwork mechanism where every position and momentum strictly dictates the next. But studying the Universe, particularly rich with complex interactions or market fluctuations, requires moving past rigid determinism. It becomes part art, part science.

the Elegance of Econometrics

Econometrics allows us to observe this non-deterministic universe through the lense of mathematical statistics. Instead of declaring $y = mx + b$ natively, we acknowledge the inherent noise in reality $y = X\beta + \epsilon$