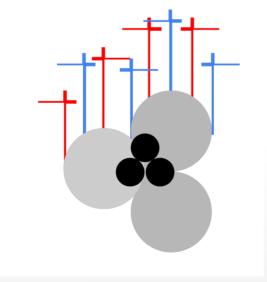
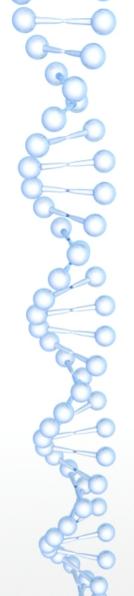


RáfagaTM

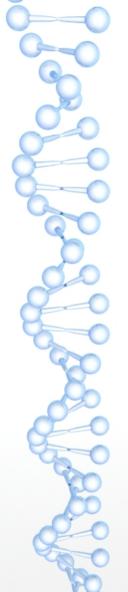




Bao's MRLRSV Model

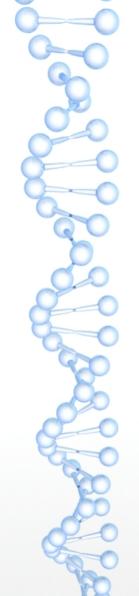
 Estimate spot VIX from evolution of futures modulo strike price evaluation

Call(τ ,K) = e^(-Integral{ r_s ds} over tau) * [F_ τ * Π _1 – K * Π _2]



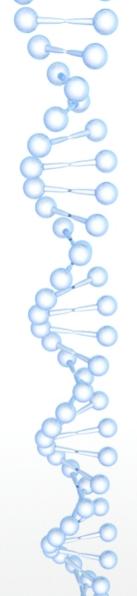
Model Metrics

- Ingests data from CBOE, Bloomberg and Yahoo!
 Finance
- Calculates per-strike value in two seconds on 8GB RAM
- RMSE in initial testing is 3.543 for 30 day call on VIX



Computational Convergence

- Math does not always translate to code easily
- The limit may not yield improvement



Solution

Machine learning on hyper-parameters to tune model