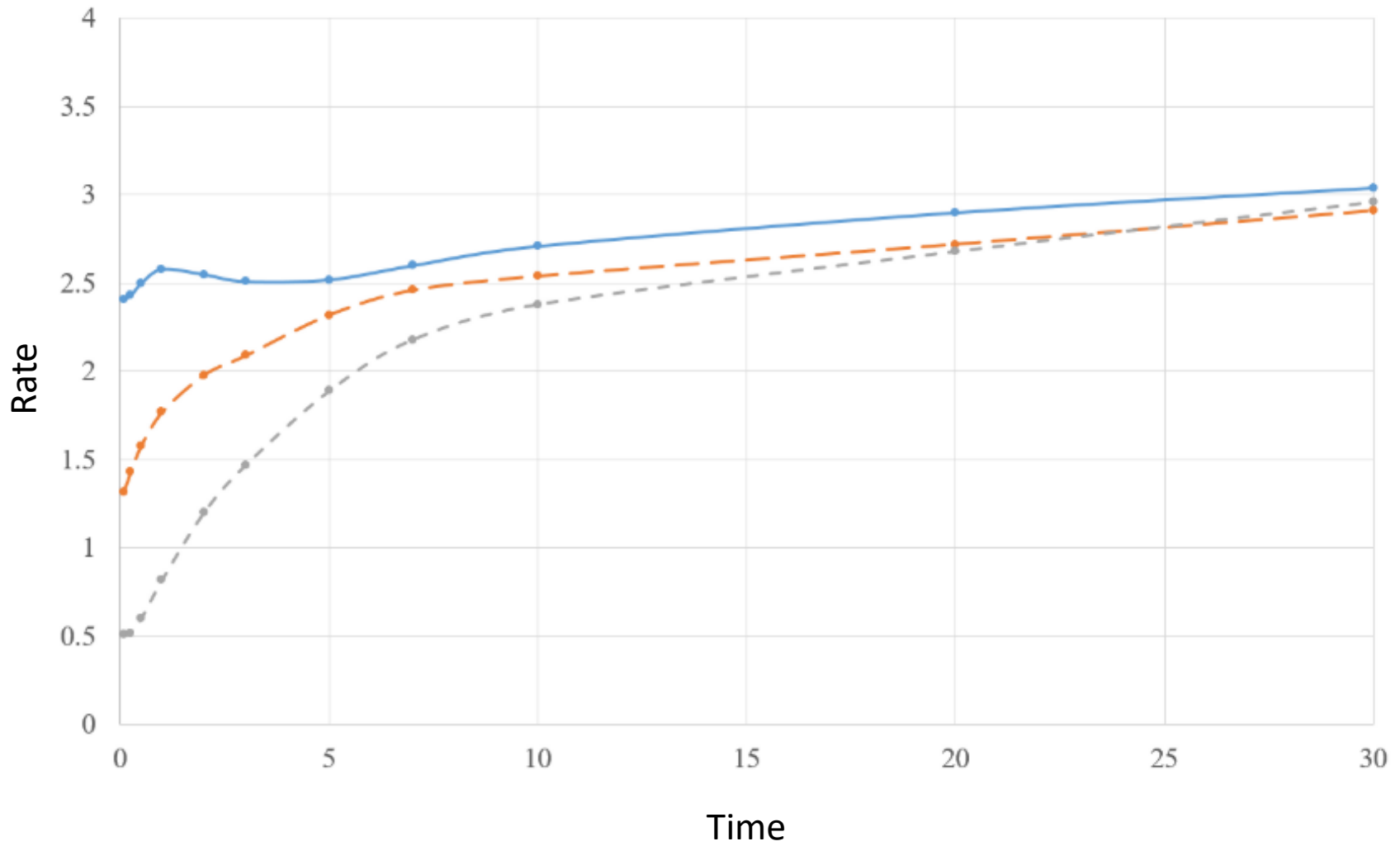


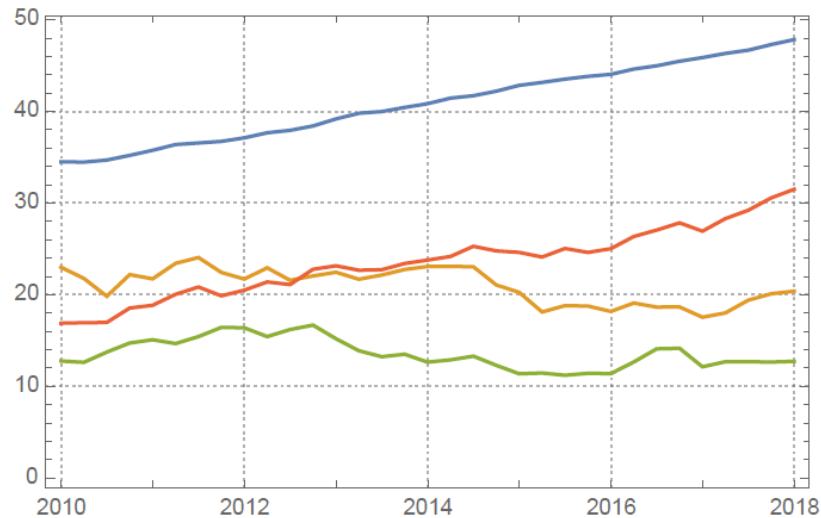
A Classic Problem in Financial Markets



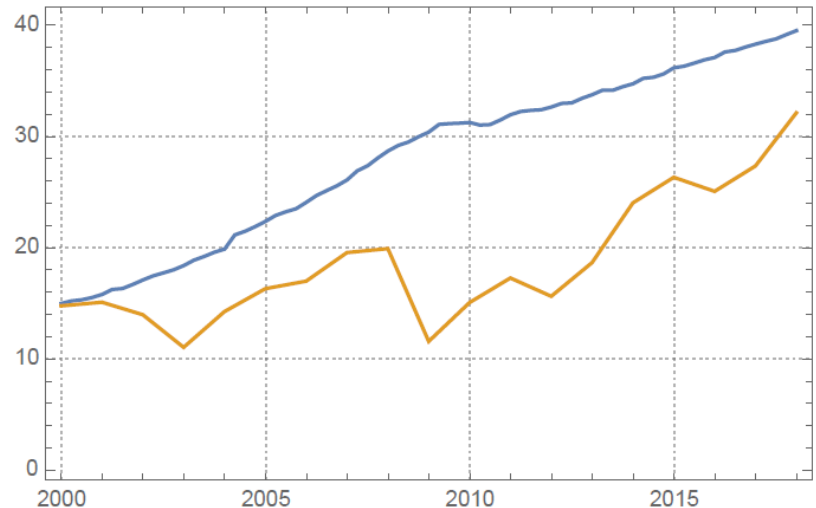
Illustrated are 2017-2019 treasury yield curves.

Source: <https://www.treasury.gov/resource-center/data-chart-center/interest-rates/pages/textview.aspx?data=yield>.

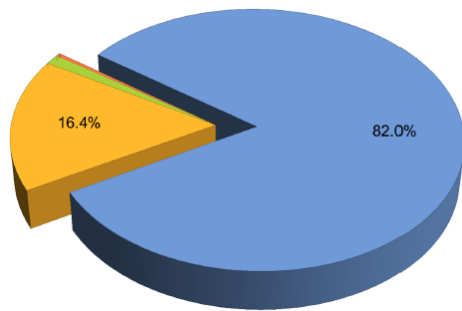
Why This Problem is Important?



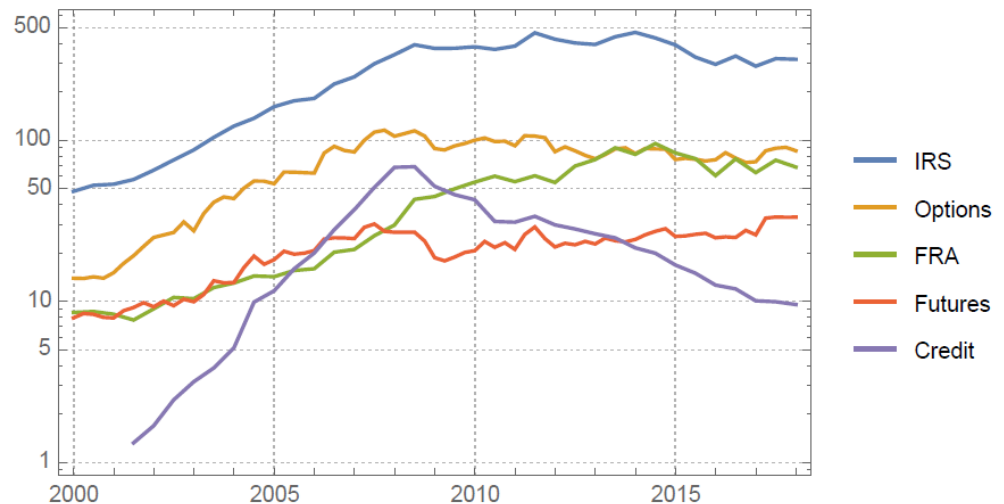
— USD — EUR — JPY — Other



— Debt — Equity

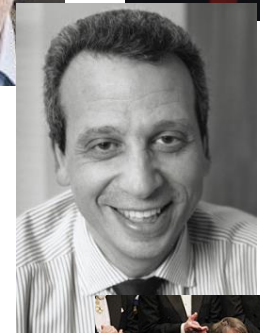
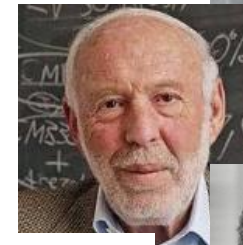
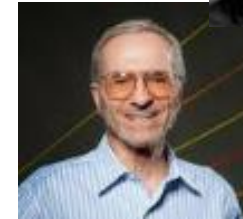
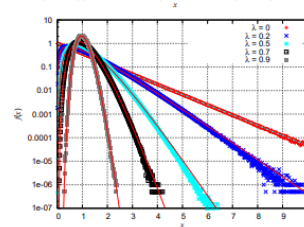
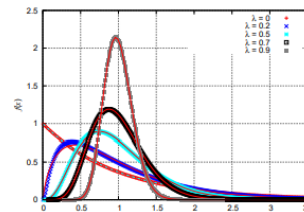
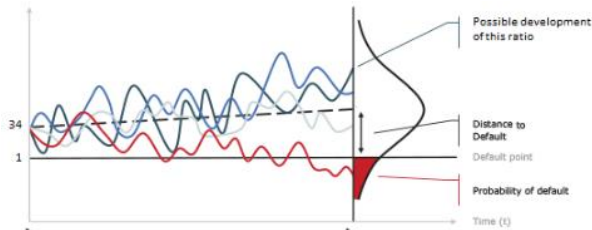
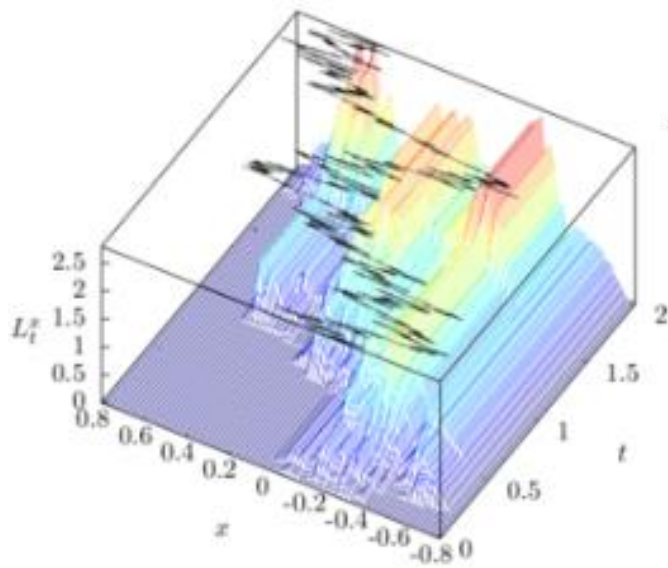


■ Fixed Income (436.2)
 ■ Foreign Exchange (87.1)
 ■ Equity (6.6)
 ■ Commodity (1.9)
 ■ Other (0.1)



— IRS
 — Options
 — FRA
 — Futures
 — Credit

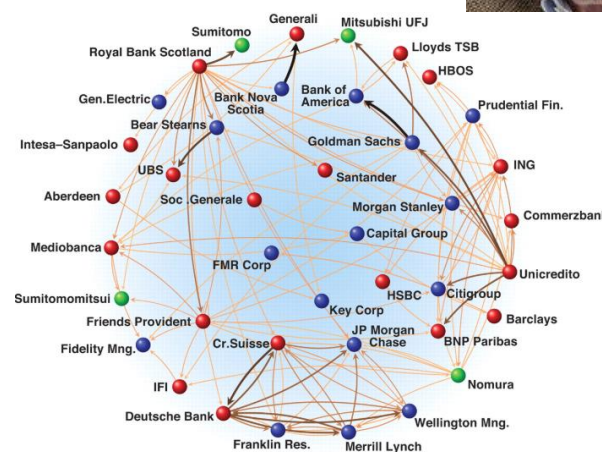
It's Also a Challenging Problem.



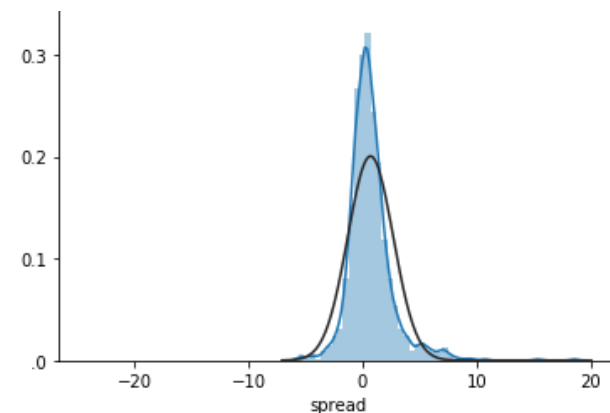
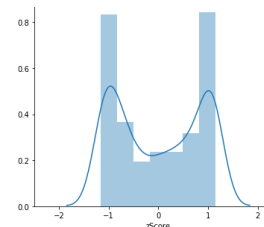
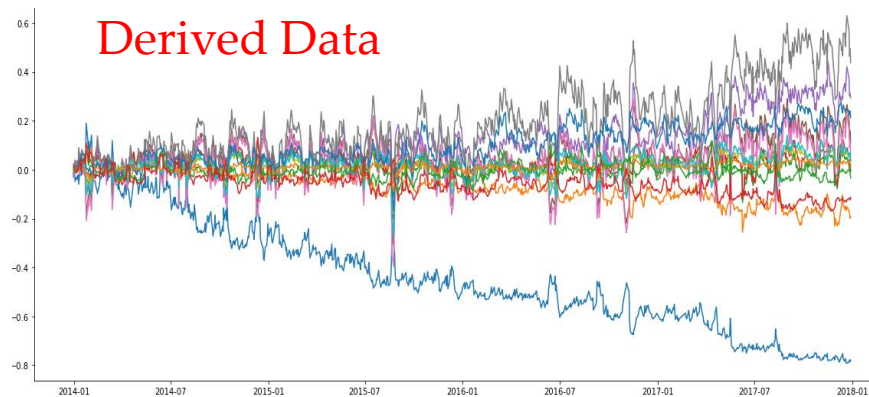
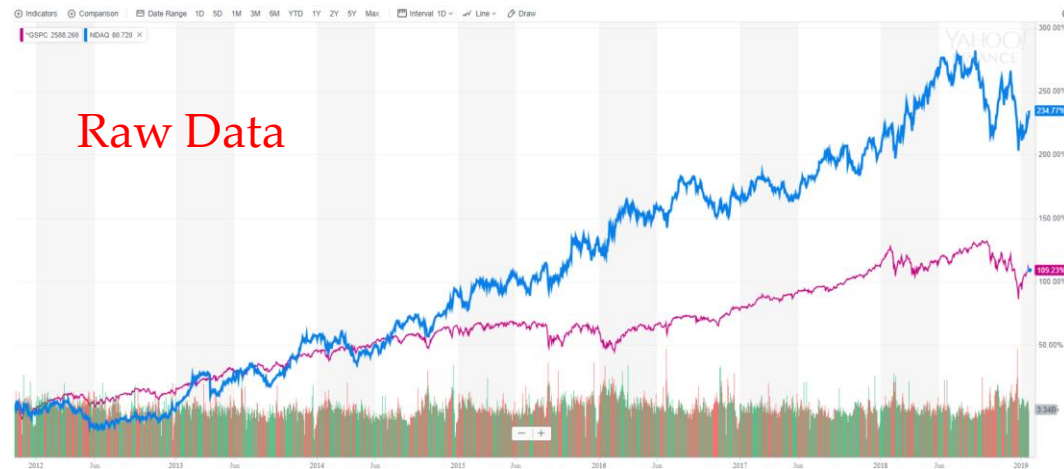
BLACKROCK



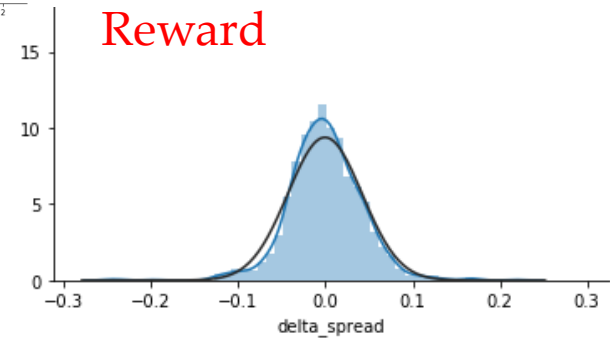
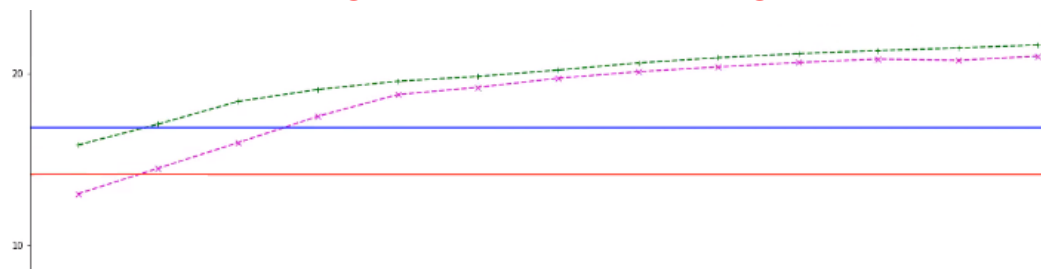
LAZARD



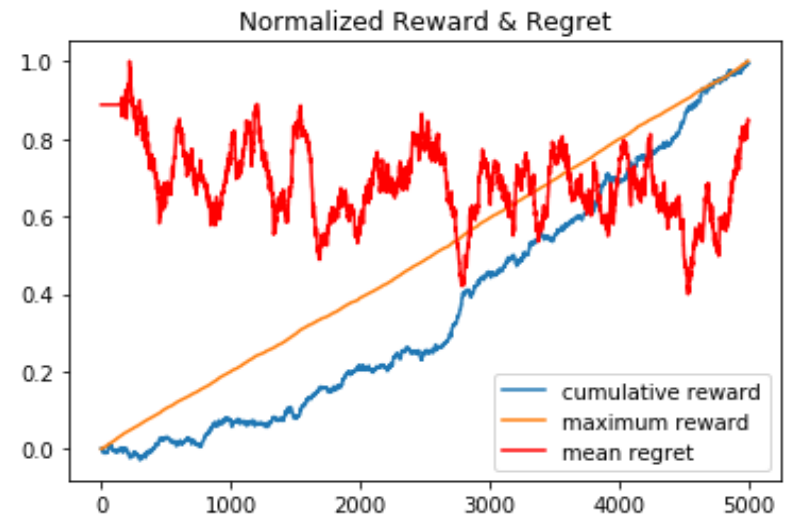
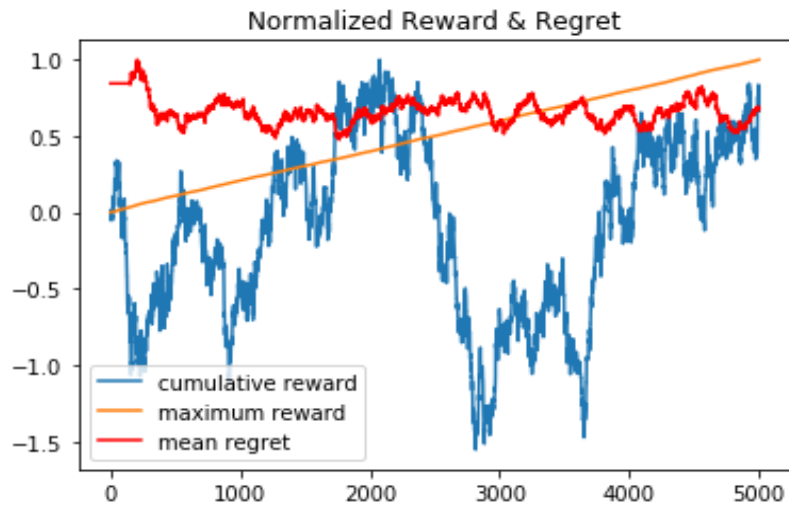
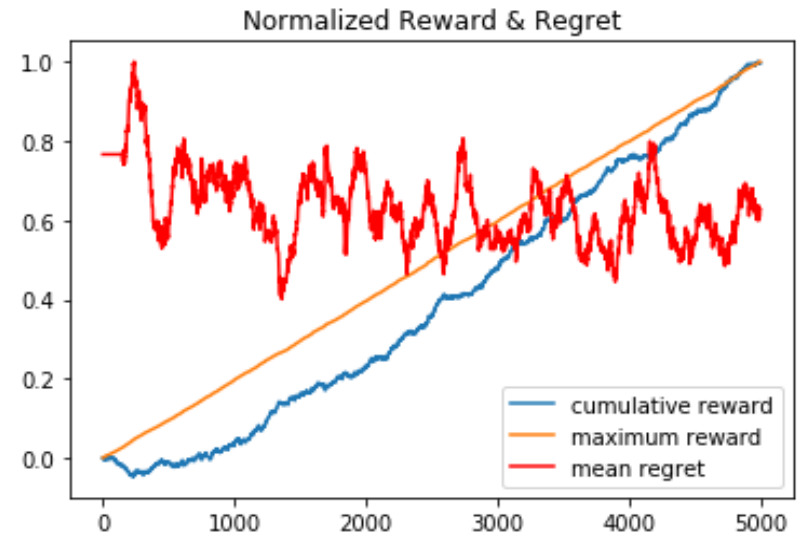
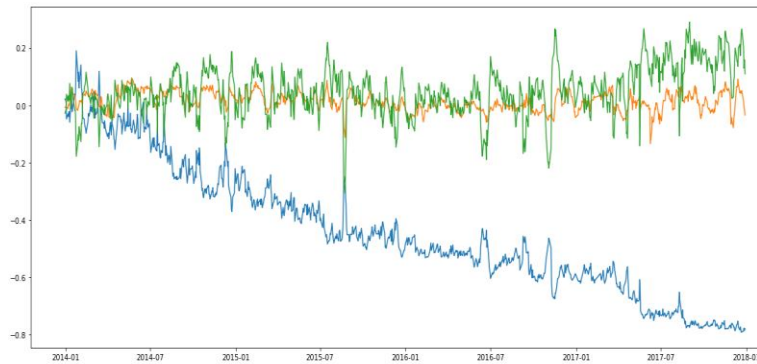
Can Bandits Help? Experiment Setup



More cooking + some forecasting => Context

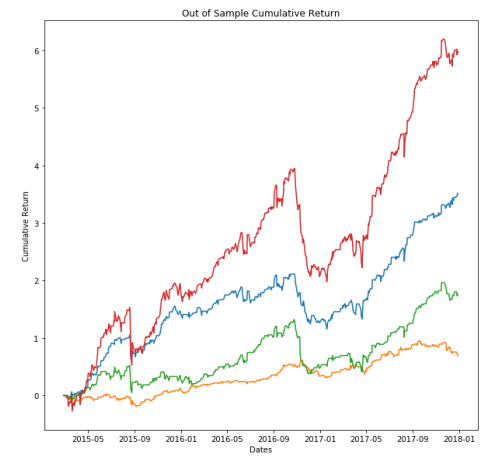
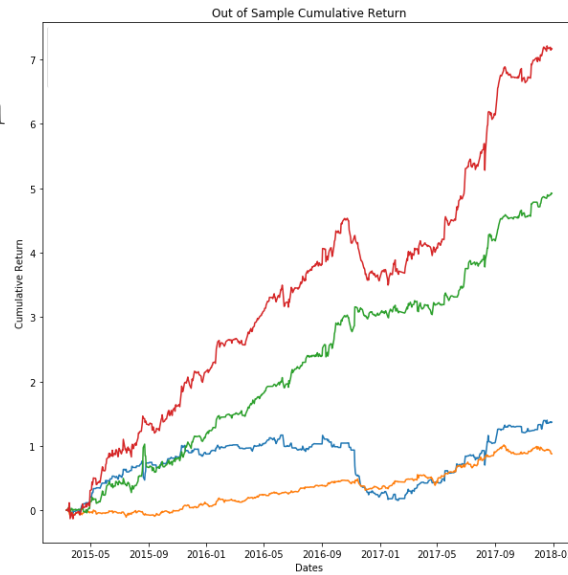


Results

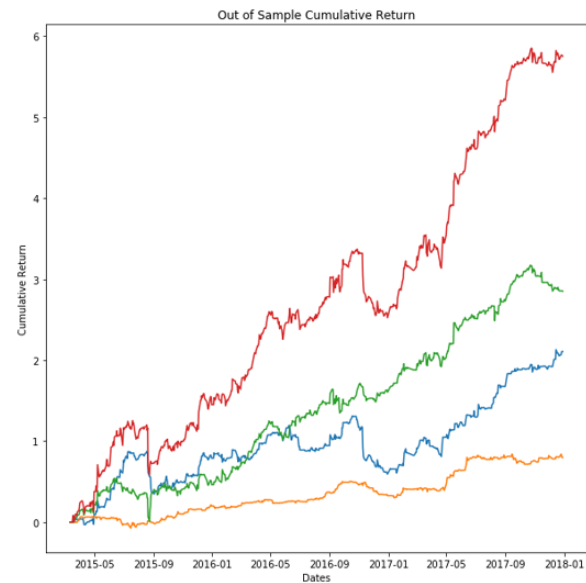
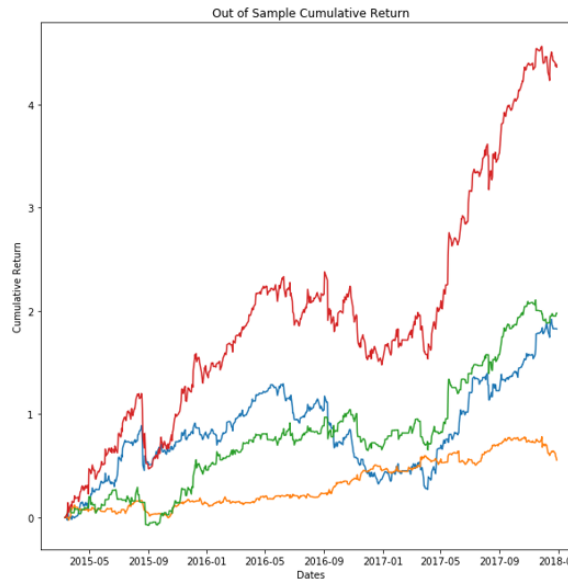


Performance

- Linear Thompson



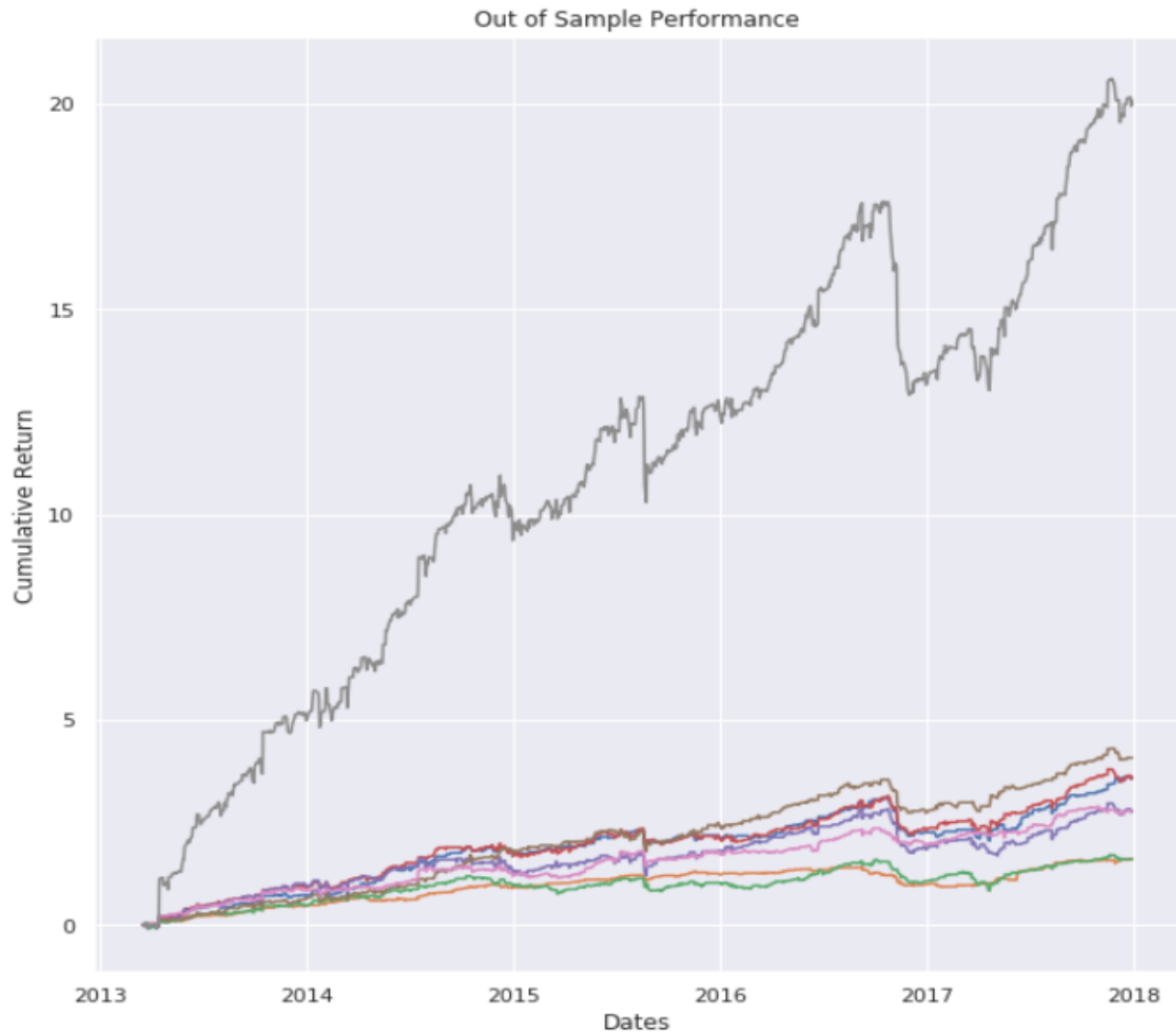
- Hybrid



With a Bit Tuning

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But... Performance Far From Enough

