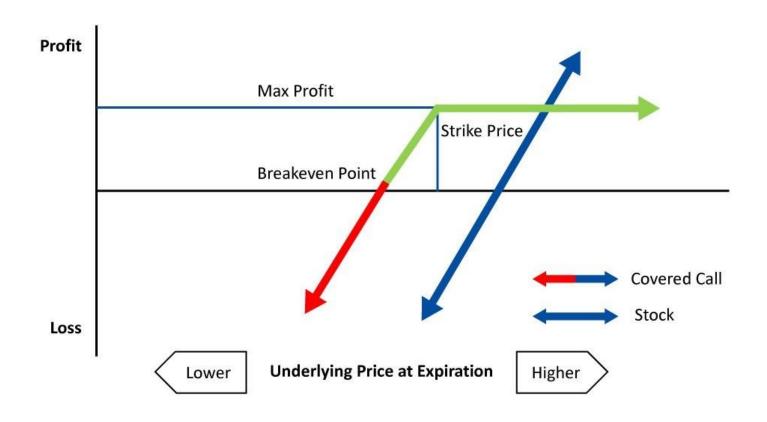
# High yield Structured product

## Covered call payoff

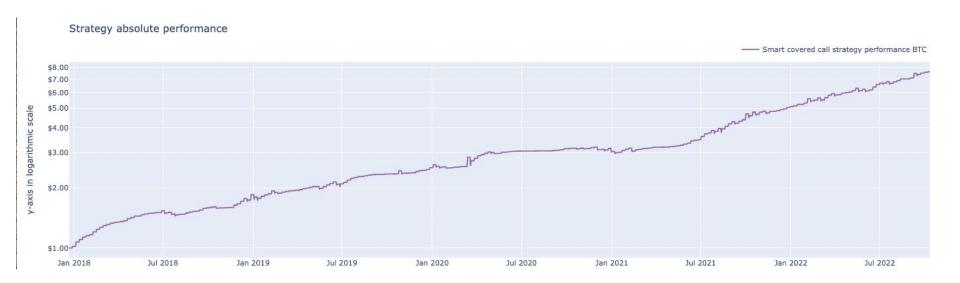


#### Two obvious strategies

- Low frequency one: triggered by a liquidity need and the will not to sell your BTCs:
  you sell covered calls in the money with a long duration (> 6months) and you get an
  immediate huge premium (around 50% of notional) but you have sold the upside of
  your BTCs, but at least you keep them if the price is under K at expiry
  - => high yield structured products

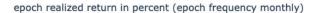
 Middle frequency one: you roll call options on a weekly basis with a strike very unlikely to be hit (cumulated with a stop loss) and you compound the premium.

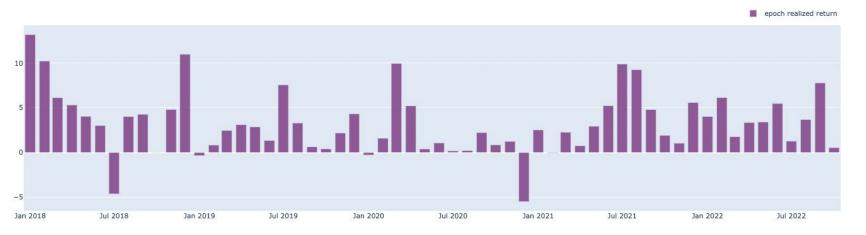
## Weekly rolling covered call strategy

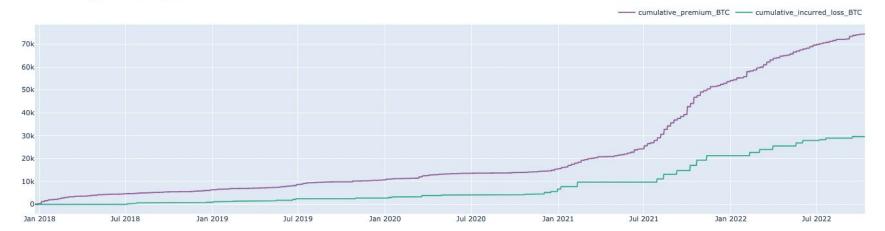


#### Drawdown chart

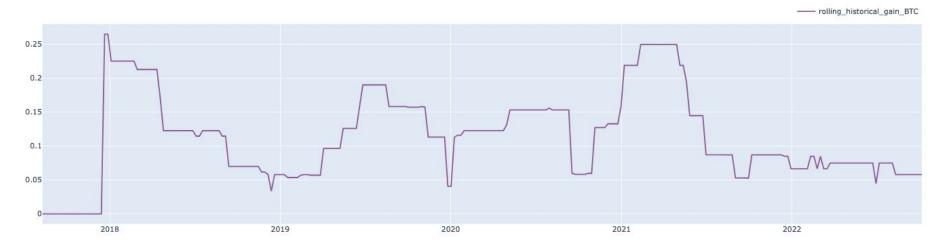






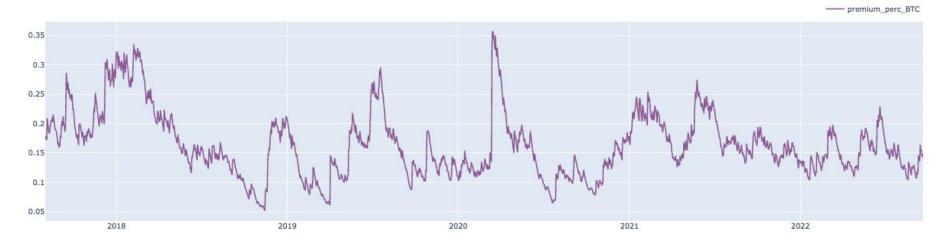


smart strike price from the spot in %

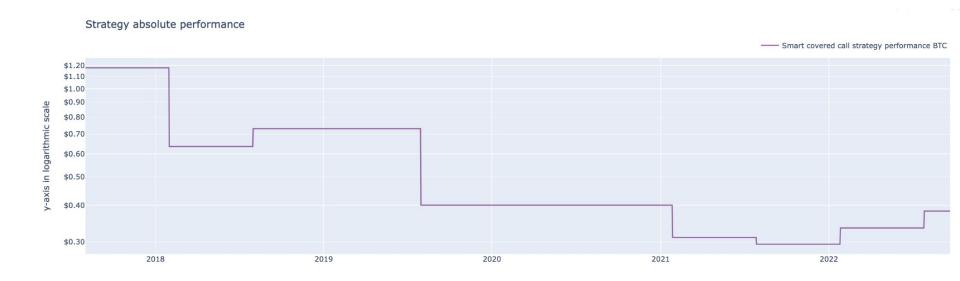


# Structured Products/low frequency: huge time to maturity: big premium

Premium as notional percentage over time at the money 6 months duration



# Systematic rolling covered call at the money 6 months: losing money

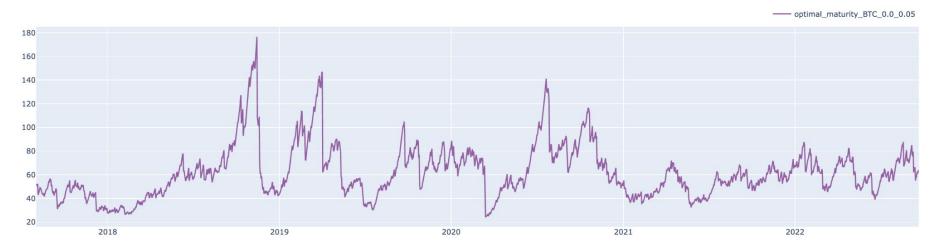


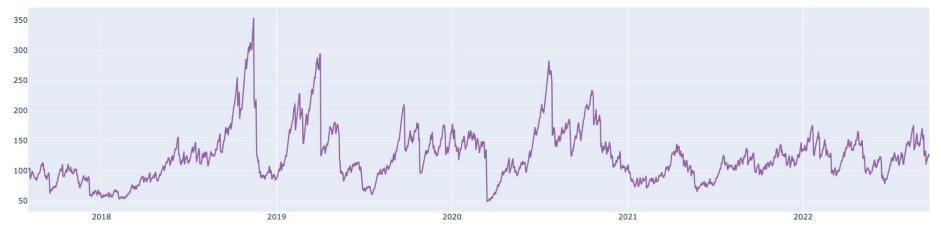
#### Making sure you earn at least R =15% on your BTC

- Compute the maturity T such that premium P(S0, T) in the money (strike S0) is such S0+P(S0,T) = S0\*(1+R)
  - => sell the call option at Toptim: you guarantee the yield but you cap your gain at S0
- We can adjust the strike price to allow a bullishness flavour: S1 = S0\*(1+B),
   B being the bullishness flavour.
  - => Compute the maturity T such that premium P(S1, T) slightly above the money (strike S1) is such S0+P(S1,T) = S0\*(1+R)

# Making sure you earn at least R% on your BTC (upside totally capped B=0)











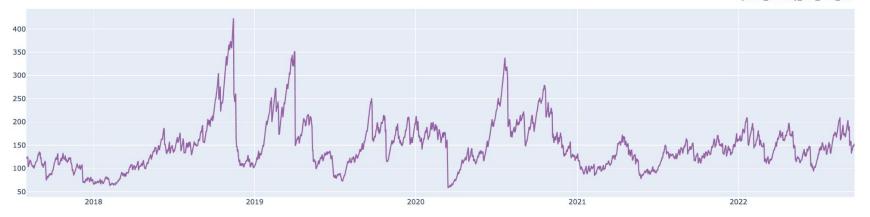


# Making sure you earn at least R% on your BTC (upside capped at B=5%)



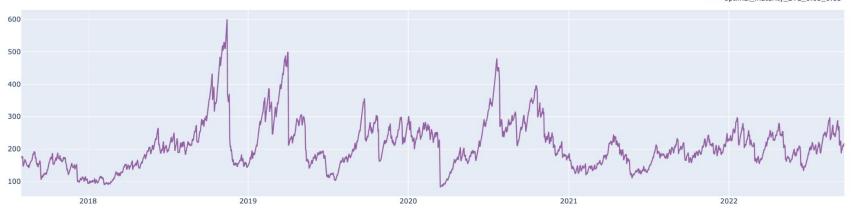
**Optimal Maturity** 



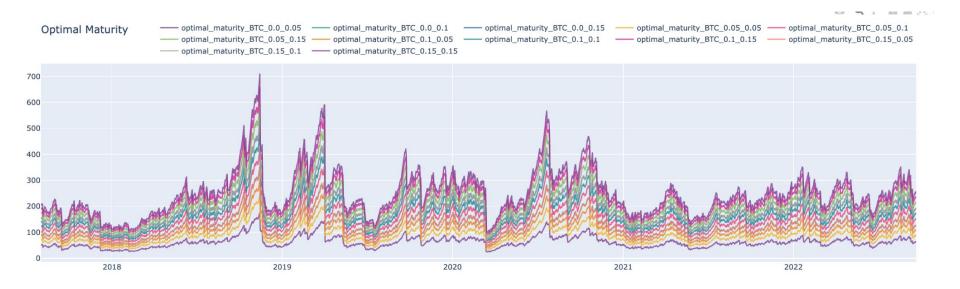


#### **Optimal Maturity**

#### ---- optimal\_maturity\_BTC\_0.05\_0.15



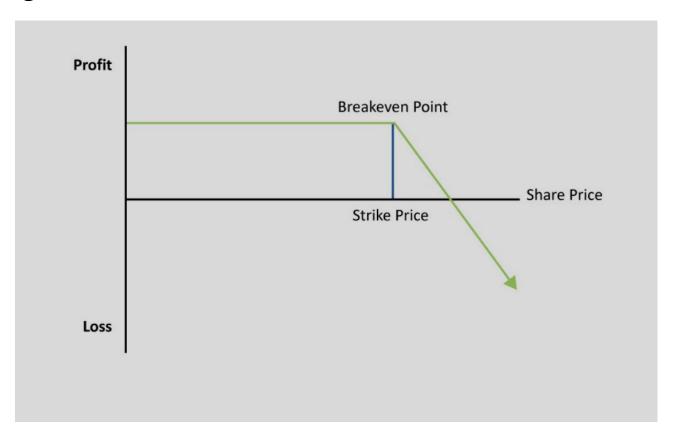
### **Optimal maturity**



#### Strategy

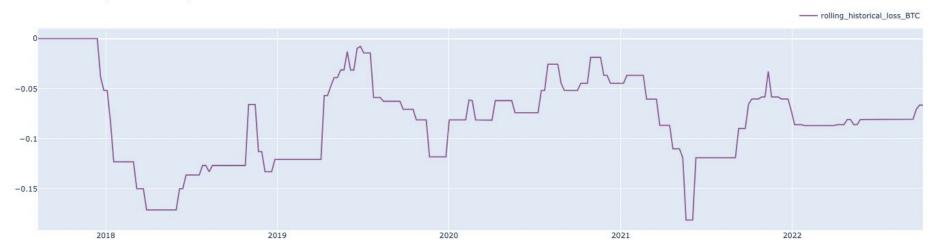
 Same study must be done but with market call prices for a more accurate backtest

## Put selling



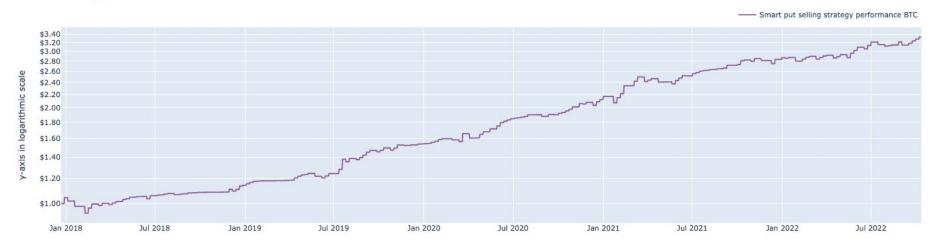
## Weekly rolling smart put selling



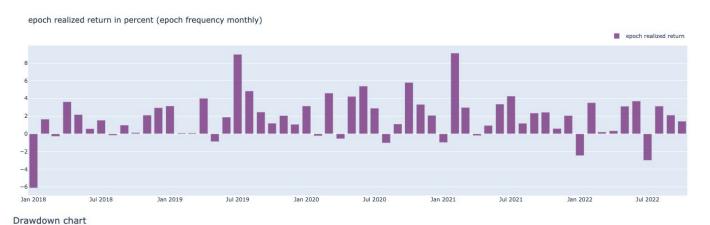


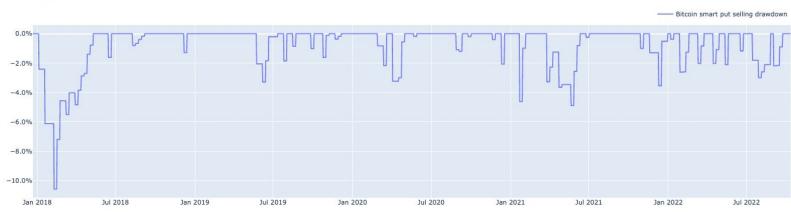
## Weekly rolling smart put selling





#### Weekly rolling smart put selling





# Mix covered call/put selling (strategy combo ½-½)

#### call/put strike price BTC



#### smart strike price from the spot in %



Drawdown chart





#### Strategy CALL\_PUT\_RANGY)

