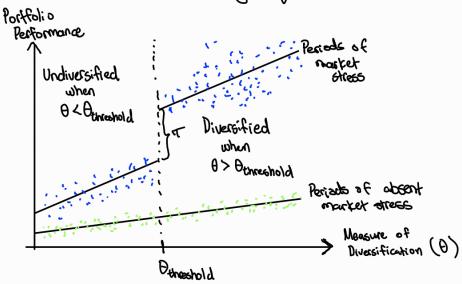
Question: What is the casual impact of <u>DIVERSTFICATION</u> on portfolio performance during periods of market stress?

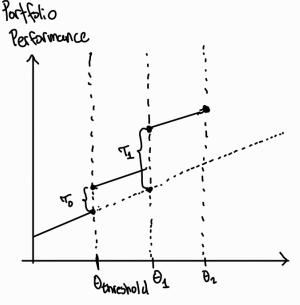
Idea of Model: Discontinuity Regression Model.



Functional Form of RDD.

where 
$$D_i = \begin{cases} 1 & \text{if } \theta \ge \theta_{\text{threshold}} \\ 0 & \text{if } \theta < \theta_{\text{threshold}} \end{cases}$$

Follow-up Question: Is our treatment effect (T) constaint past Objectment?



Past Dancehold, if To is not consecunt, at what the is To the greatest?

Measure of Divershipm (O)

## Data Collection

Acquire	datu	٥٩	basket	
70 /	stock	.s and		
assets				
from Yahoo Finance		-inance		

Construct 1000 portfoliss with varying levels of diversification

Track performance

over time

per:ods of extreme

market volatility

(VIX)

## Dota structure

Portfolio	Correlation	Return in time period = volatile
1	0.67	59.1.
2	1	161.
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,	; , ,	· · · · · · · · · · · · · · · · · · ·
1000	0.28	28-1.