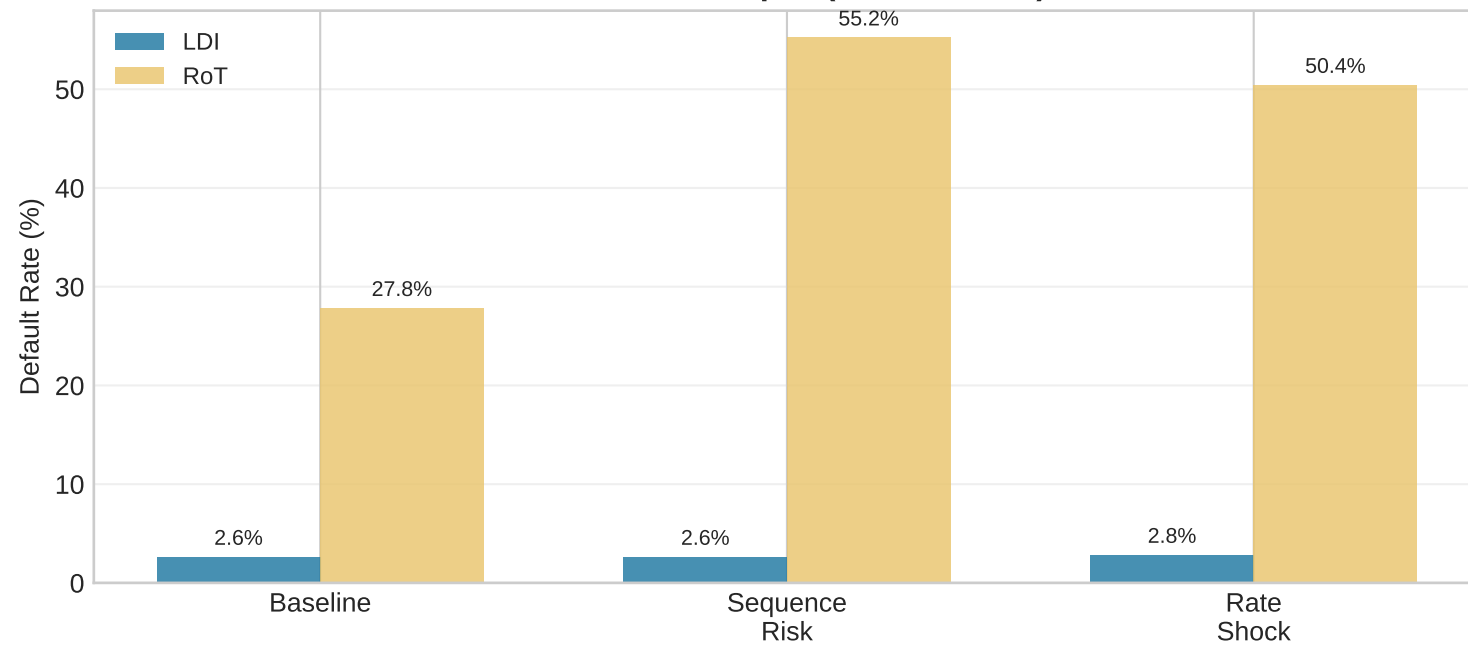
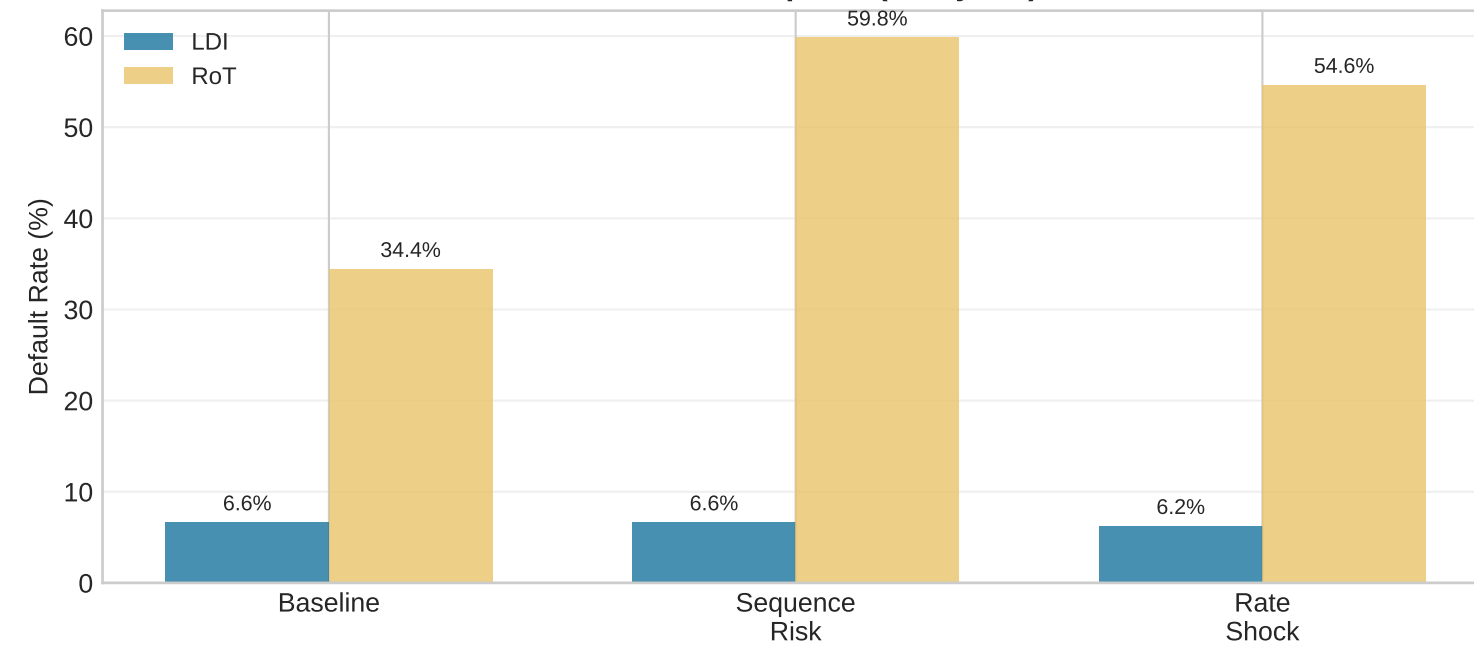


# LDI vs Rule-of-Thumb: Strategy Comparison Across Scenarios

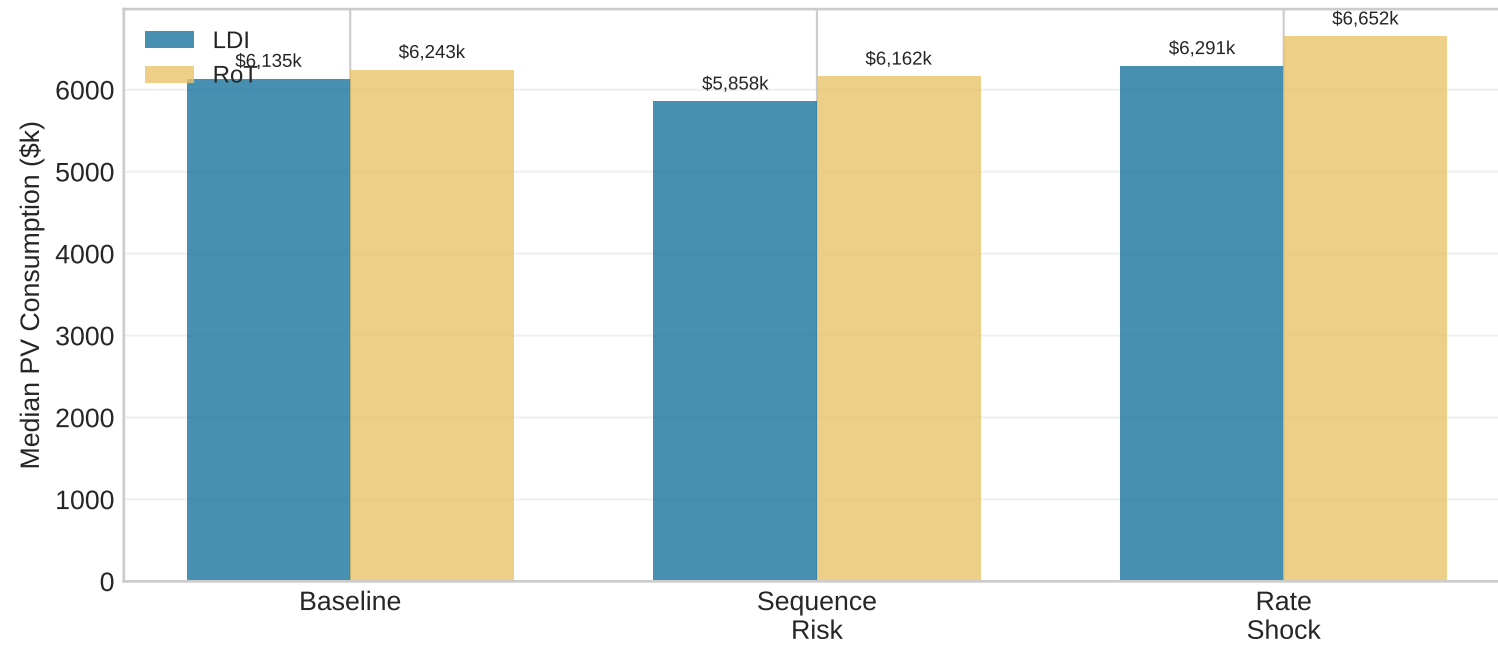
## Default Rates - $\beta=0$ (Bond-like HC)



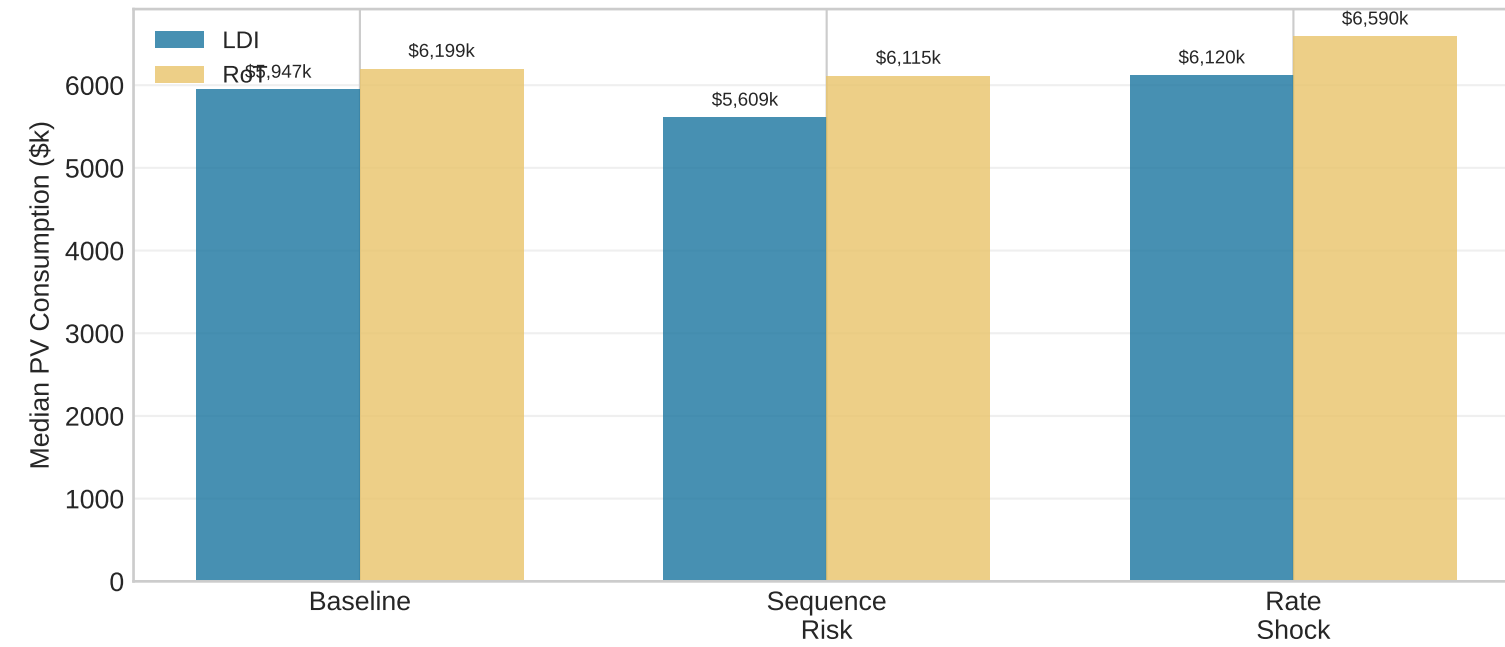
## Default Rates - $\beta=0.4$ (Risky HC)



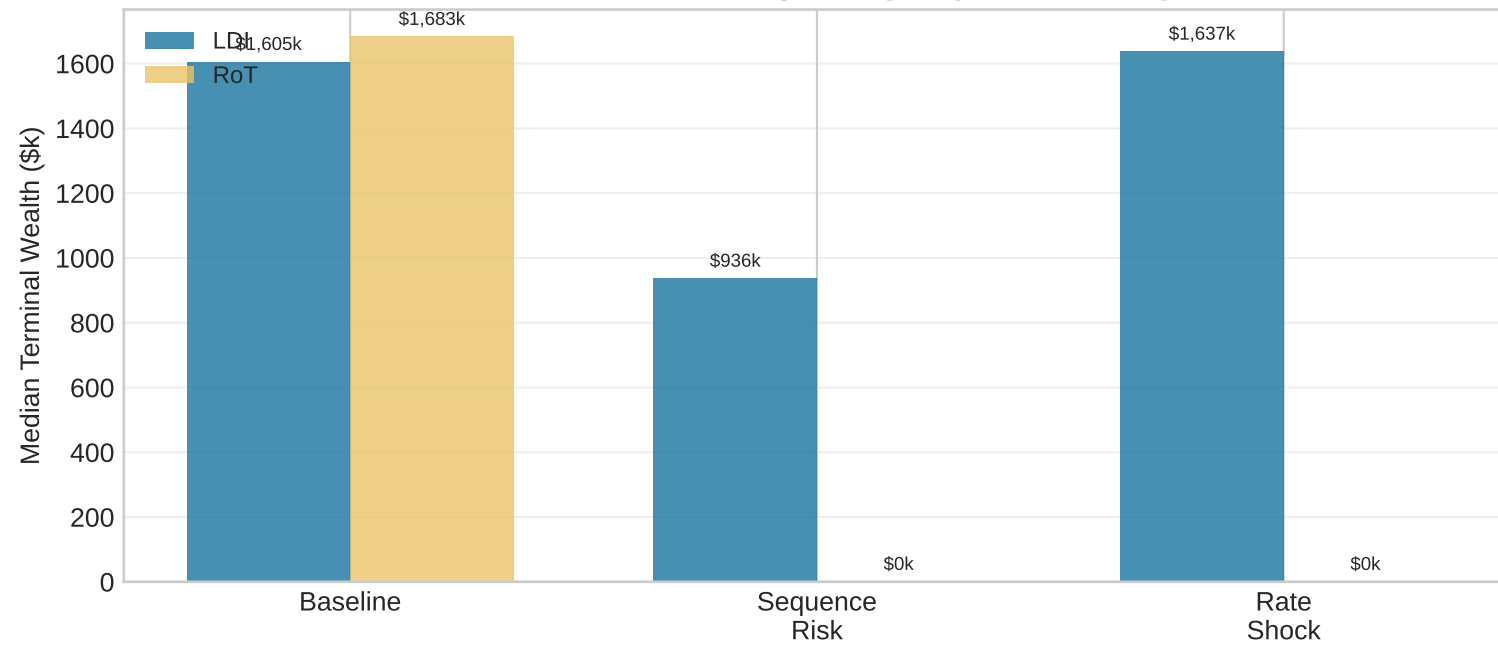
## PV Lifetime Consumption - $\beta=0$ (Bond-like HC)



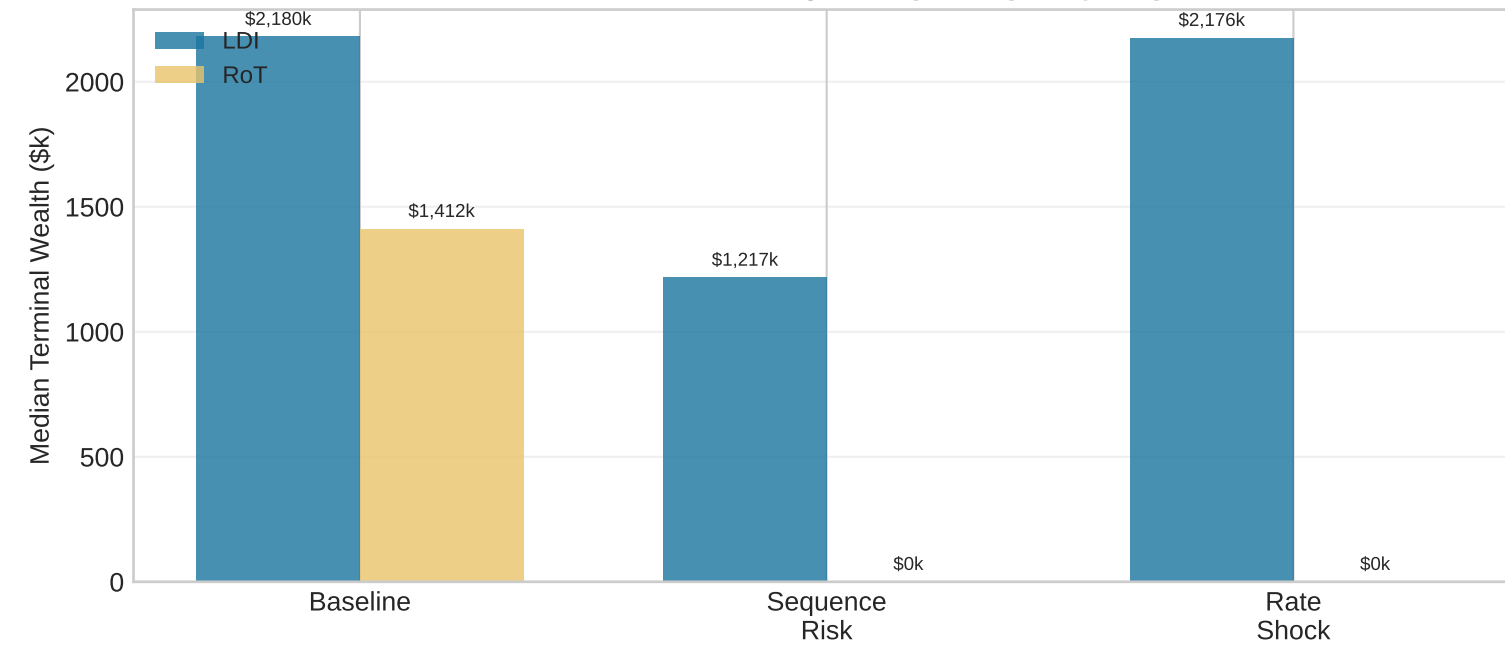
## PV Lifetime Consumption - $\beta=0.4$ (Risky HC)



## Terminal Wealth at Age 95 - $\beta=0$ (Bond-like HC)



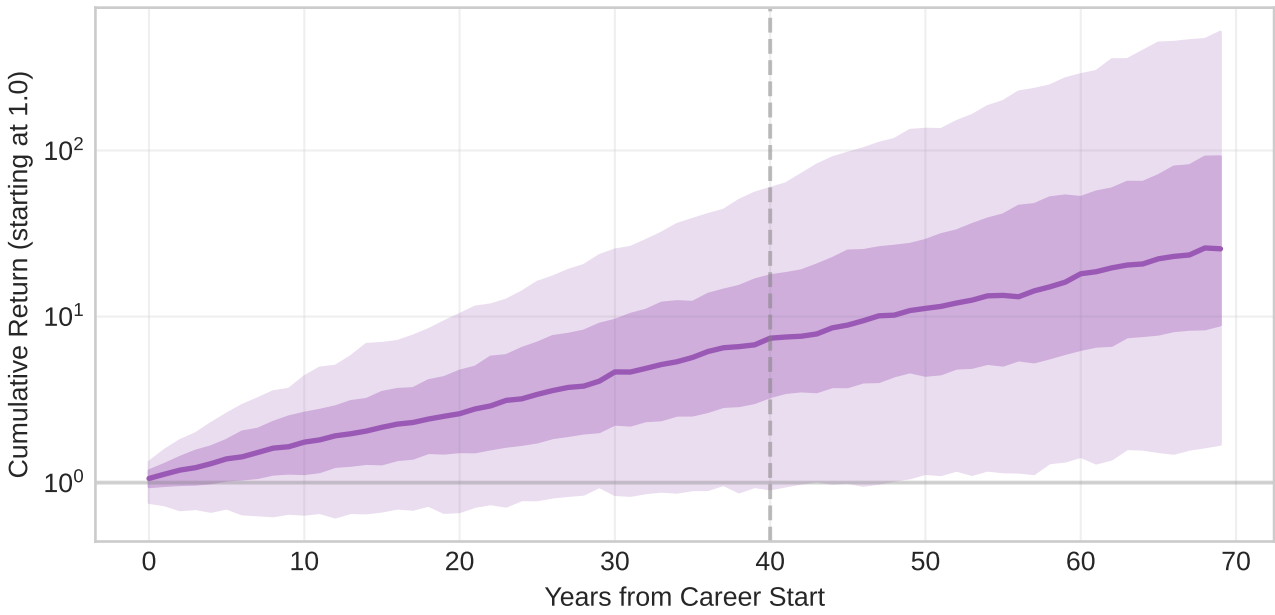
## Terminal Wealth at Age 95 - $\beta=0.4$ (Risky HC)



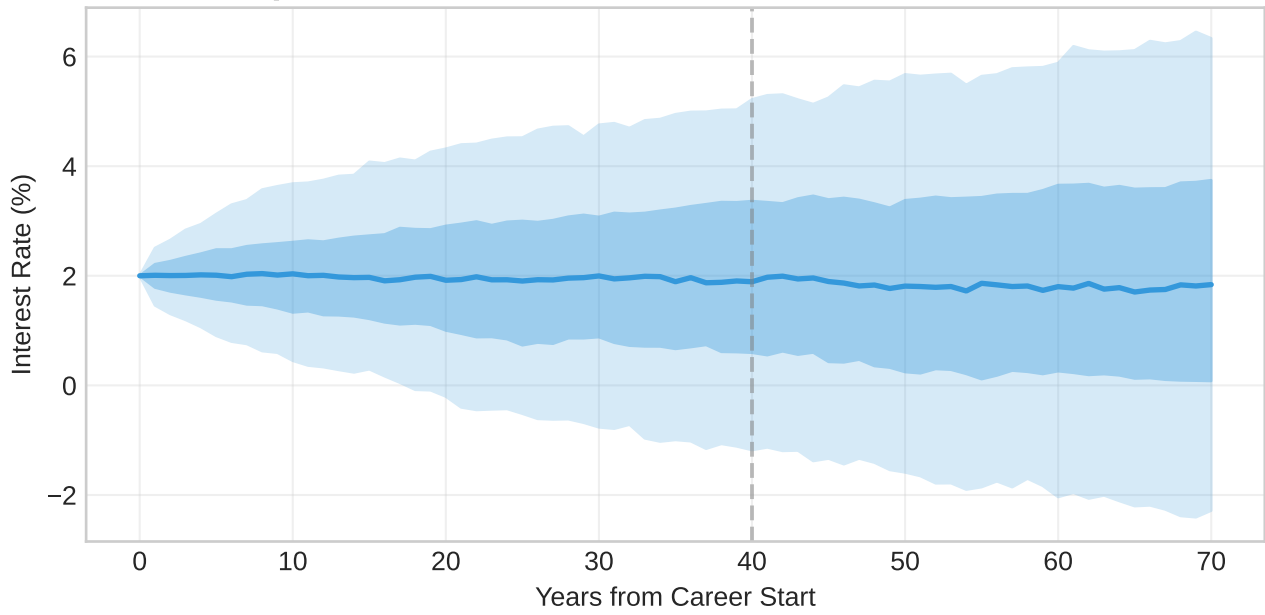
# Baseline: Normal Monte Carlo ( $\beta=0$ , Bond-like HC)

## Standard random shocks - no scenario manipulation

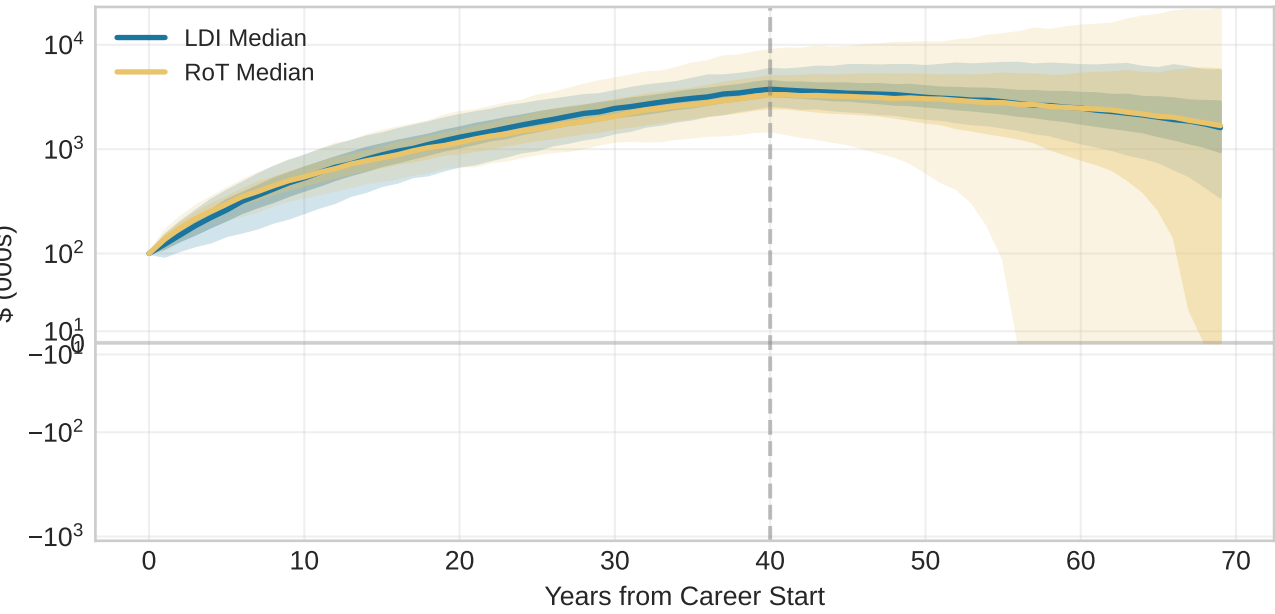
Cumulative Stock Market Return



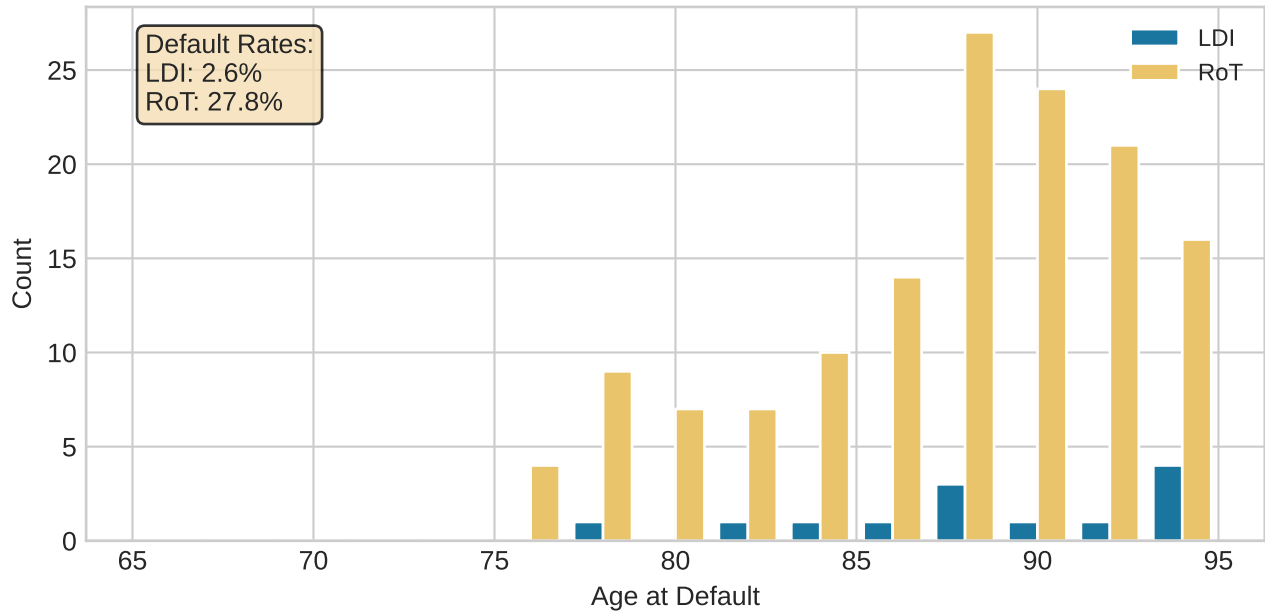
Interest Rate Paths



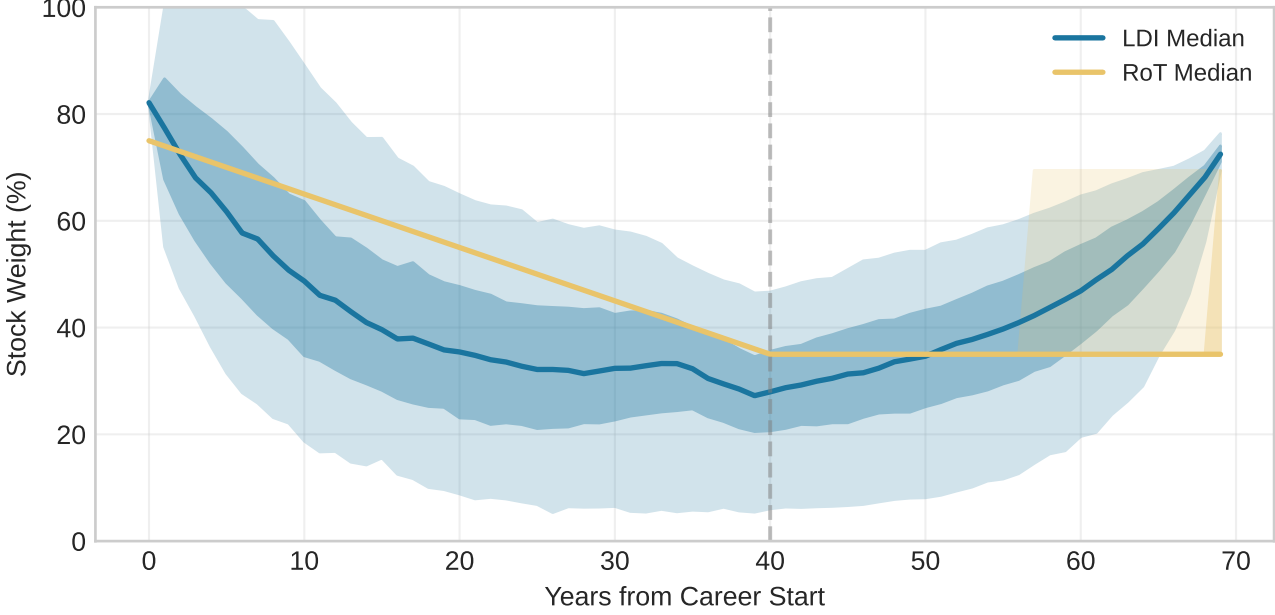
Financial Wealth



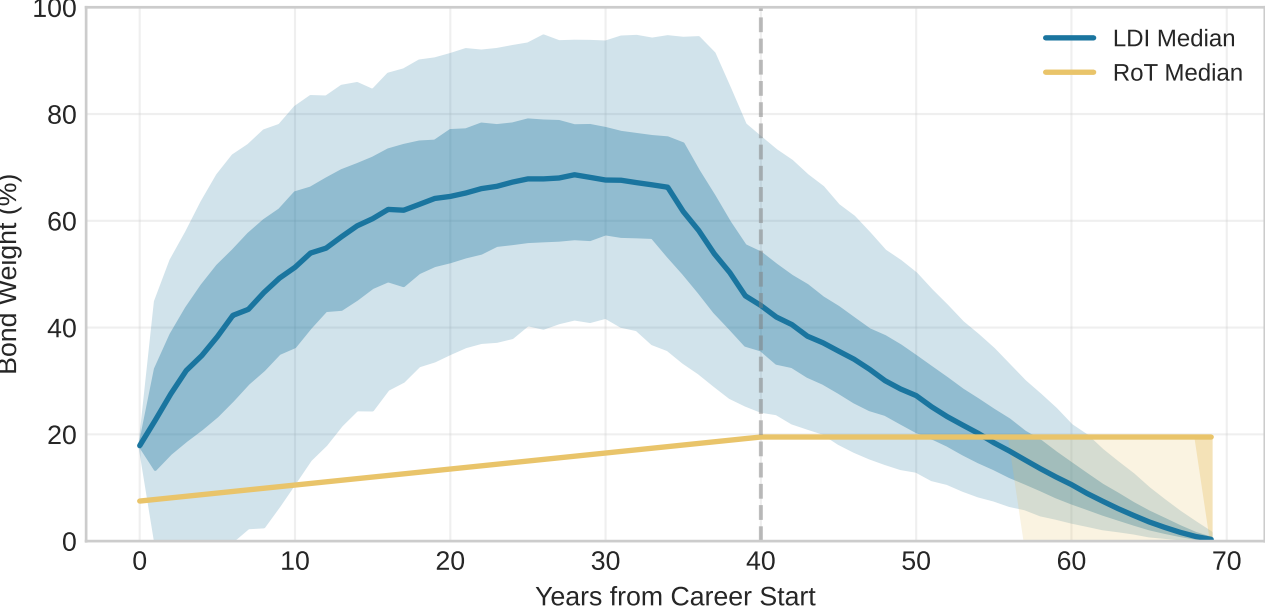
Default Timing



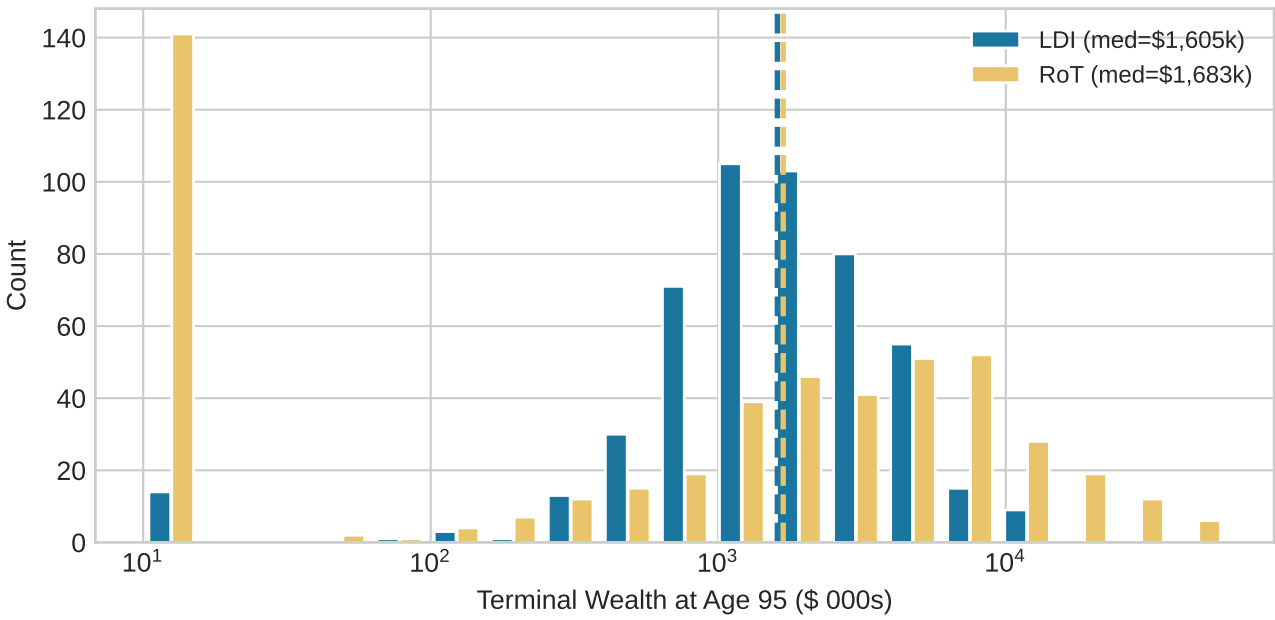
Stock Allocation (LDI Dynamic vs RoT Static)



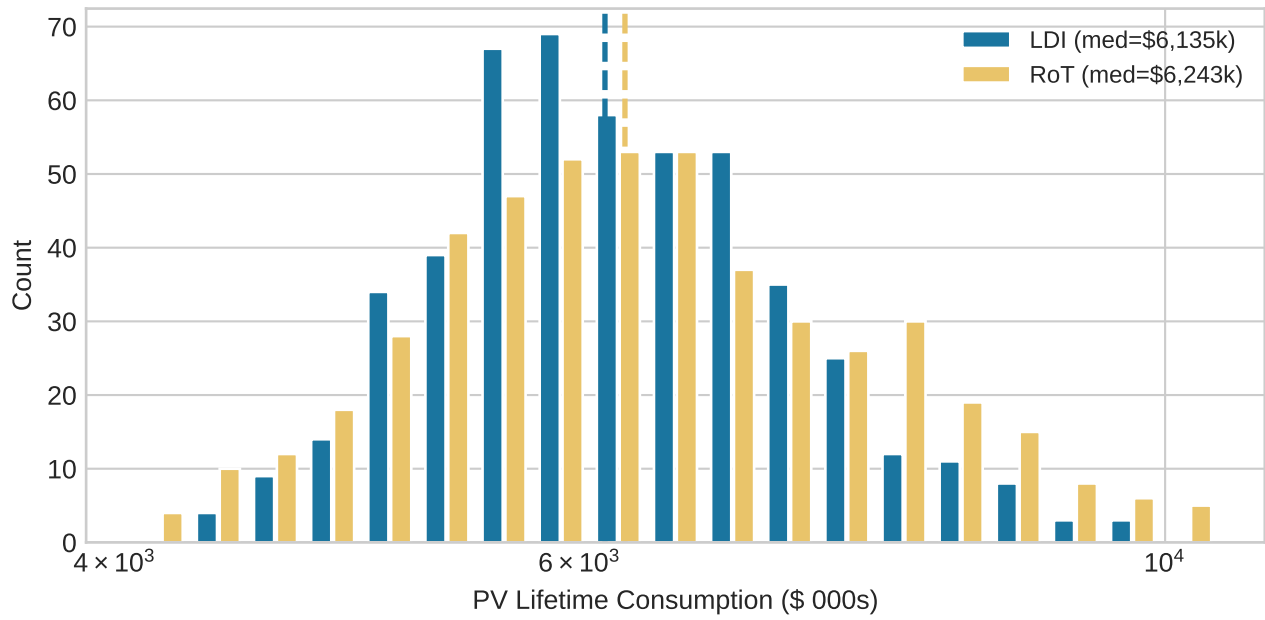
Bond Allocation (LDI Dynamic vs RoT Static)



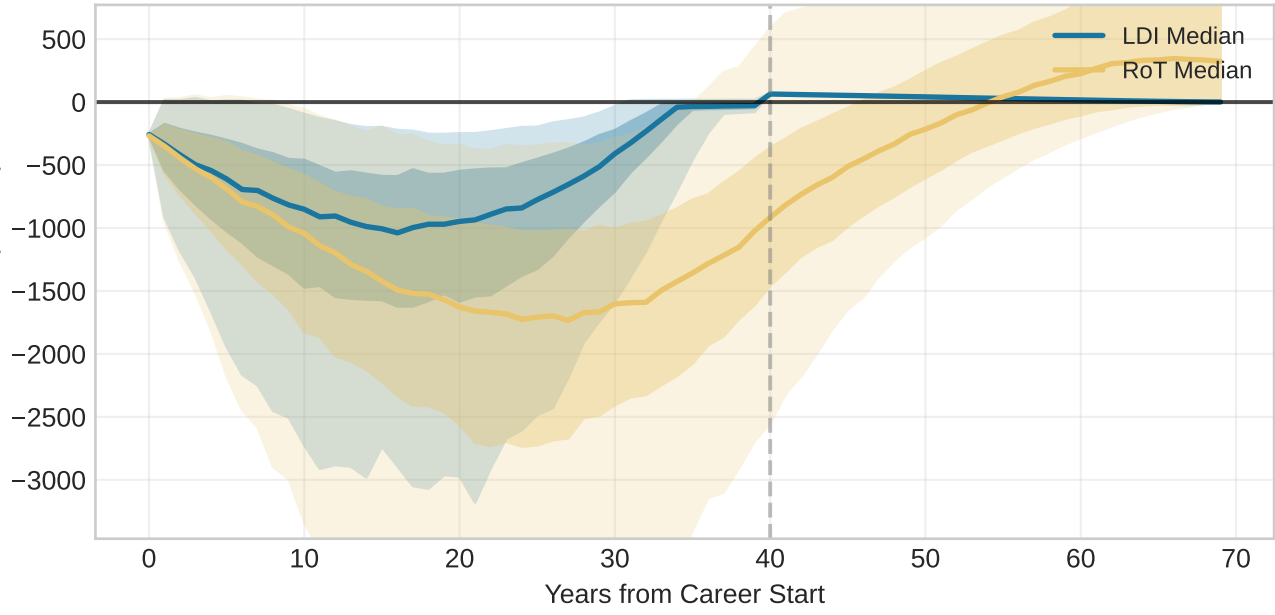
Terminal Wealth Distribution



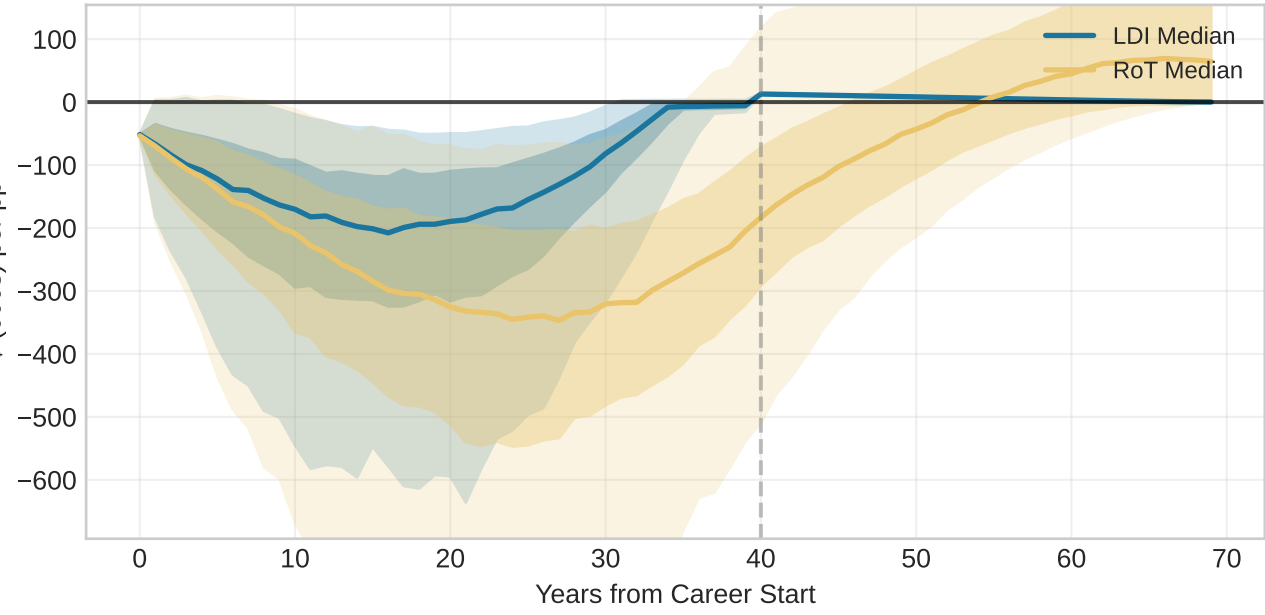
PV Consumption (Realized Rates)



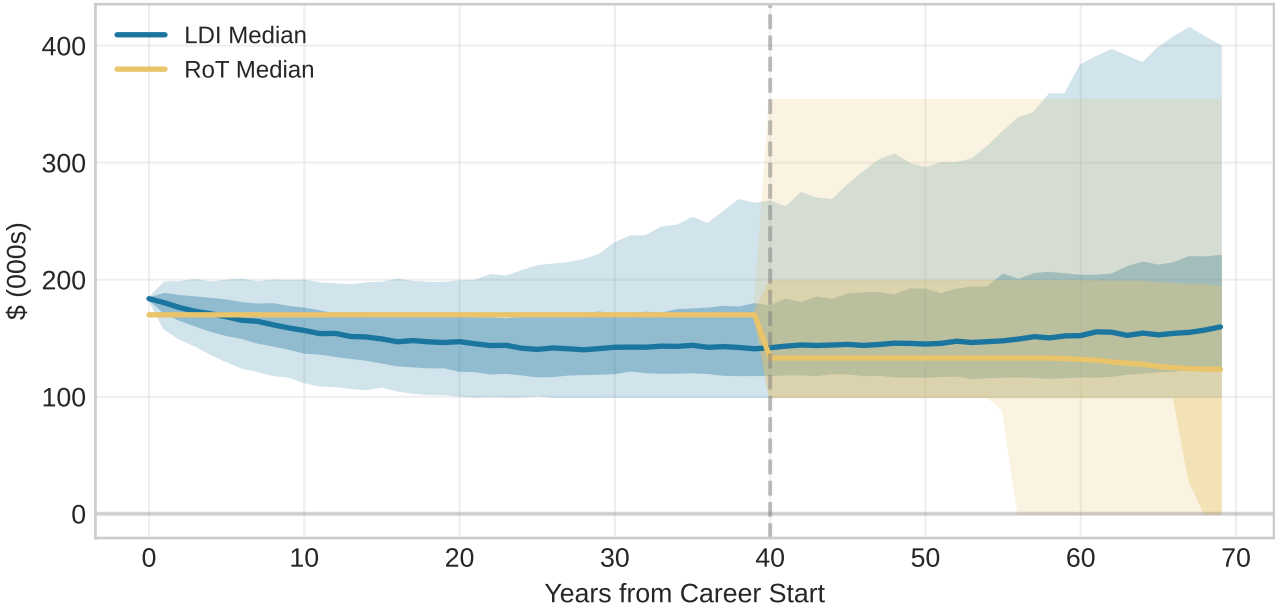
Net Fixed Income PV (Bonds + HC - Expense Liability)



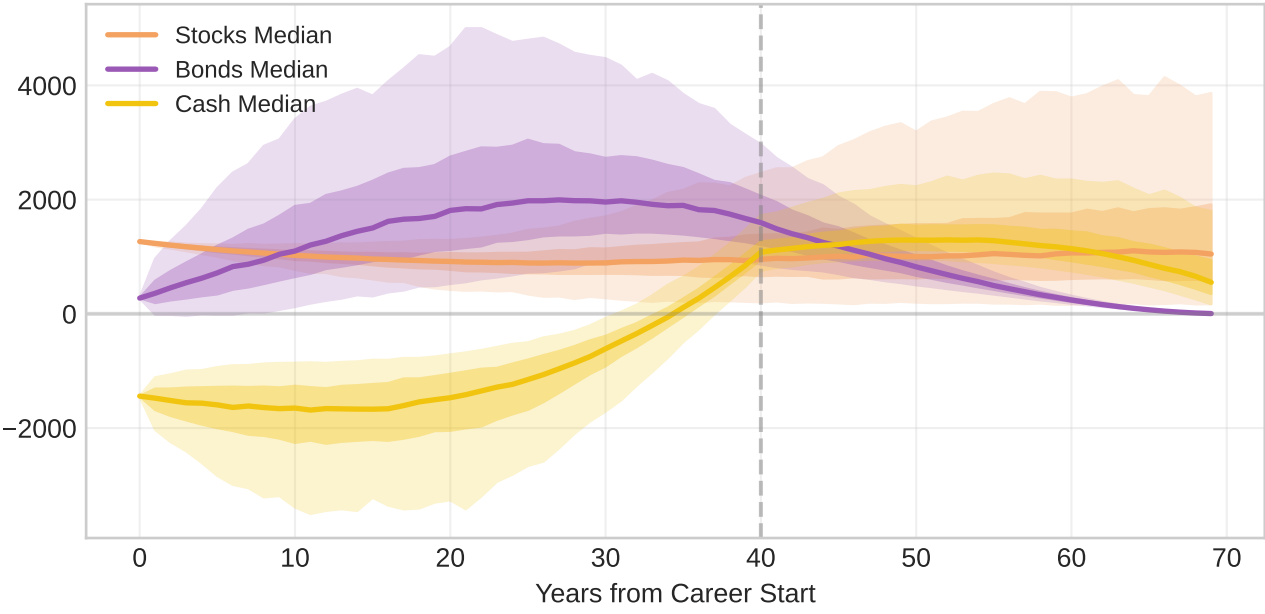
Interest Rate Sensitivity (\$ gain per 1pp rate drop)



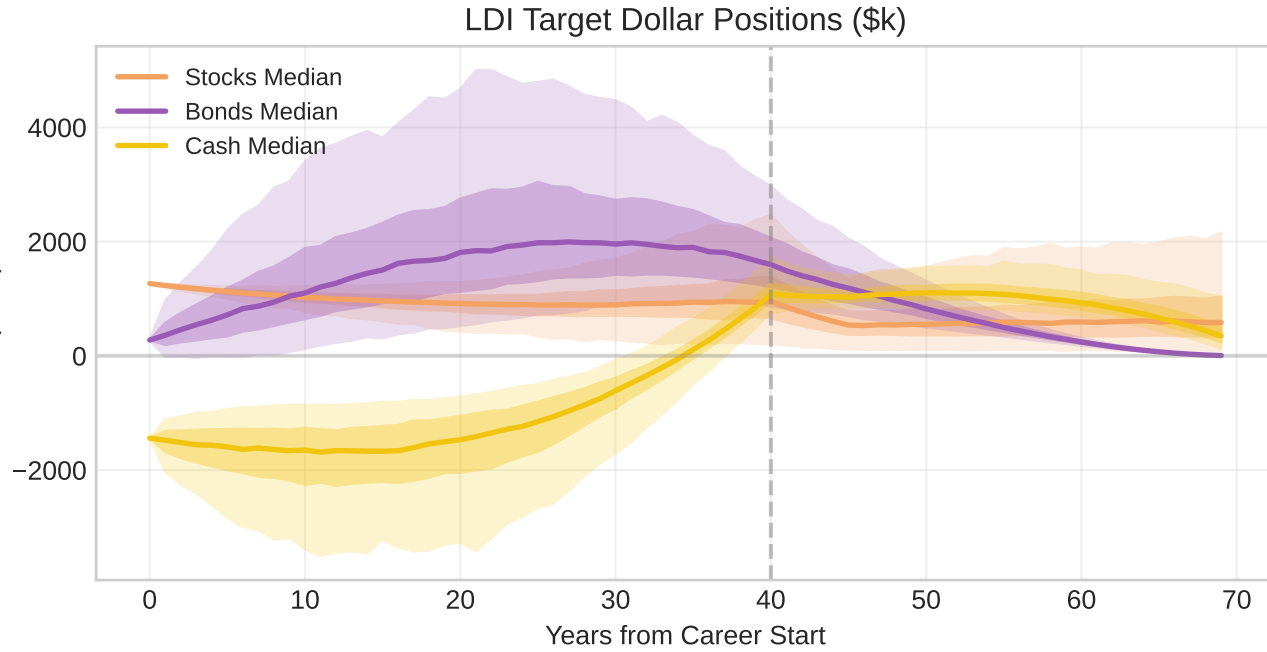
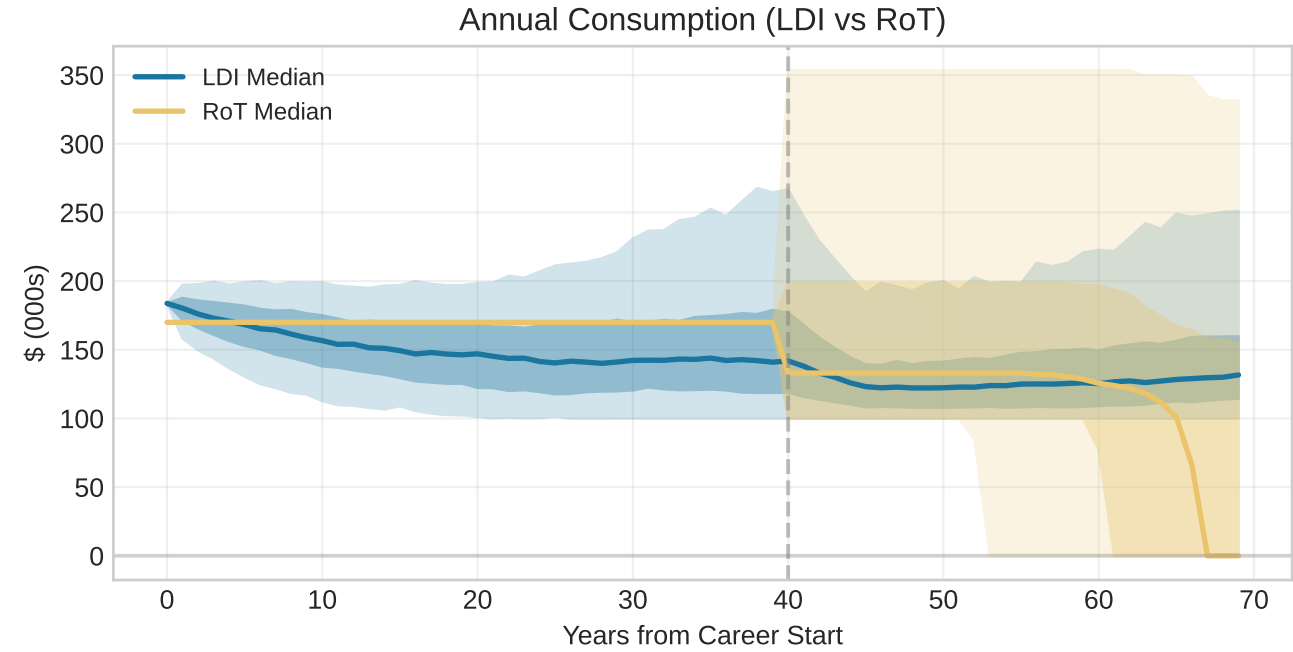
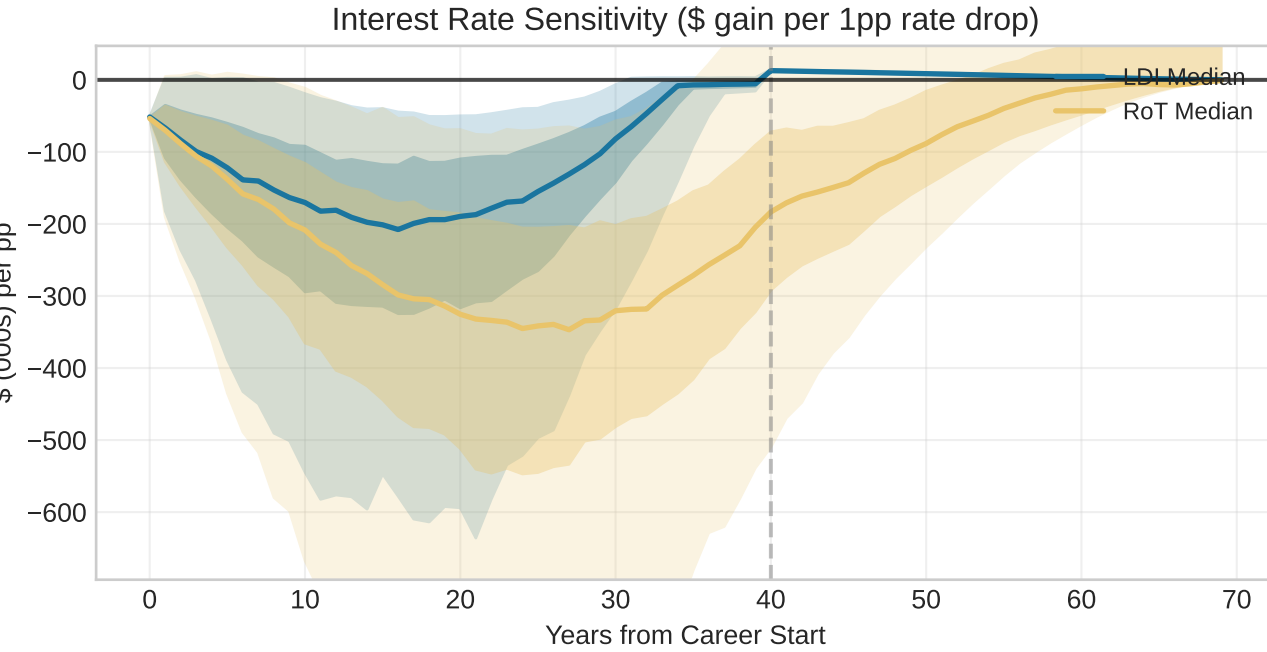
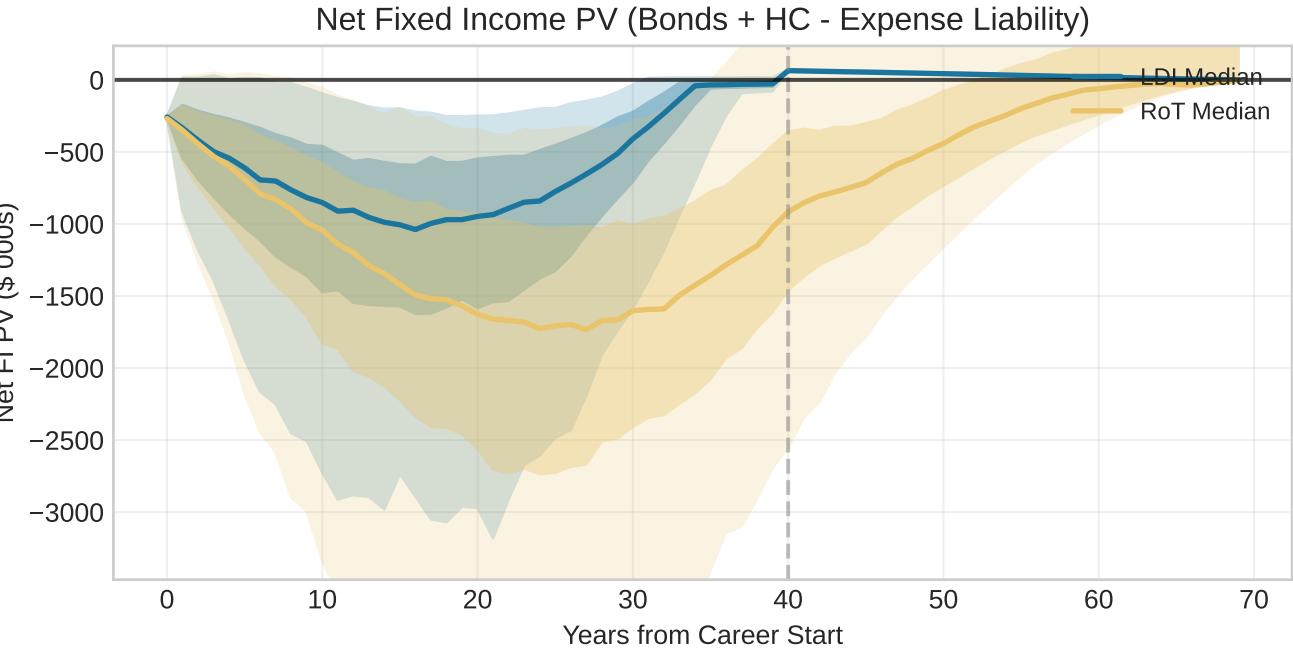
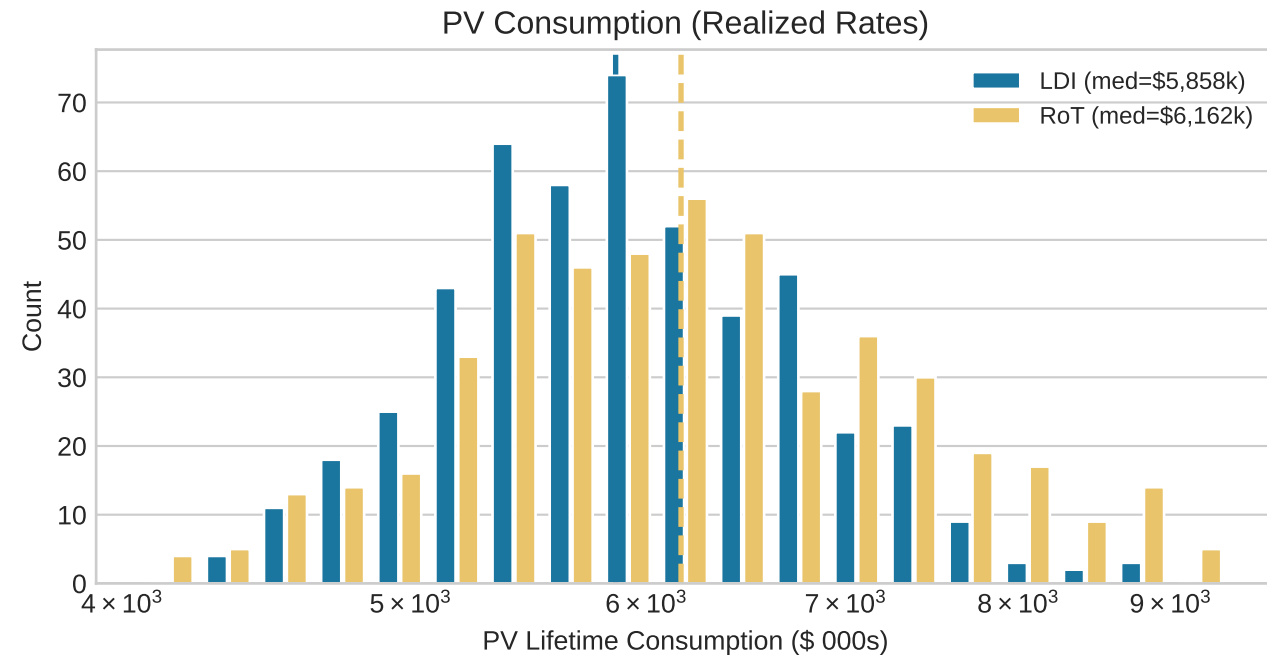
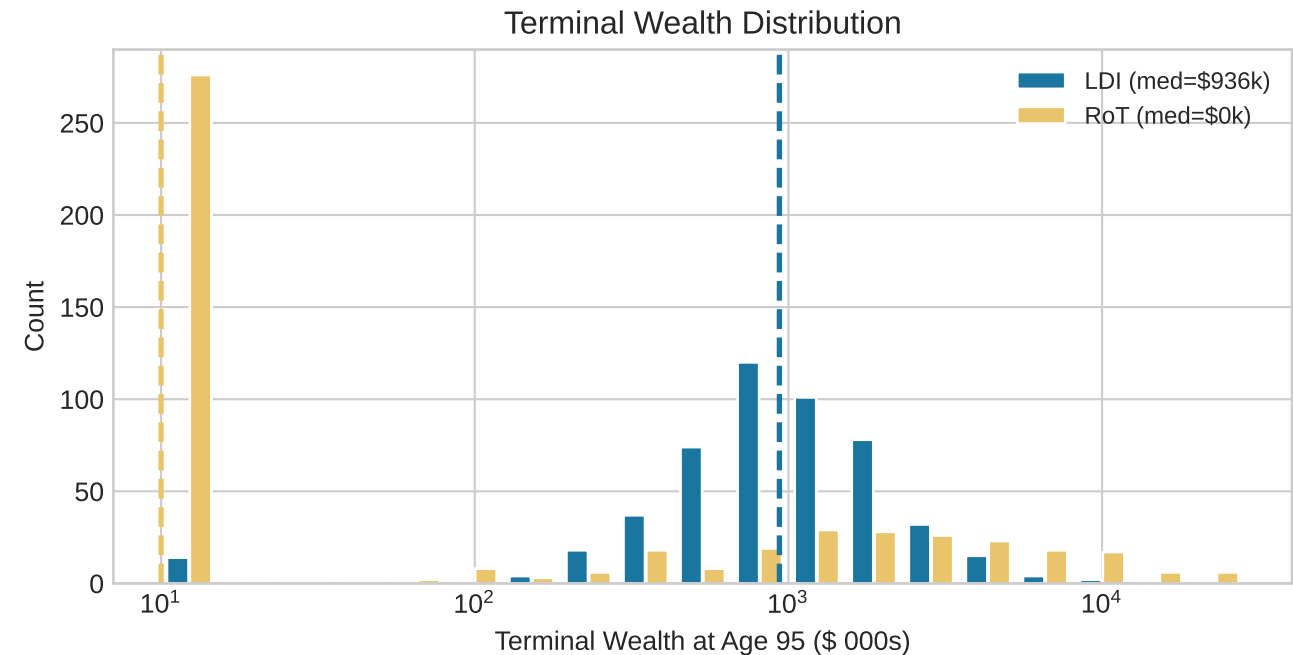
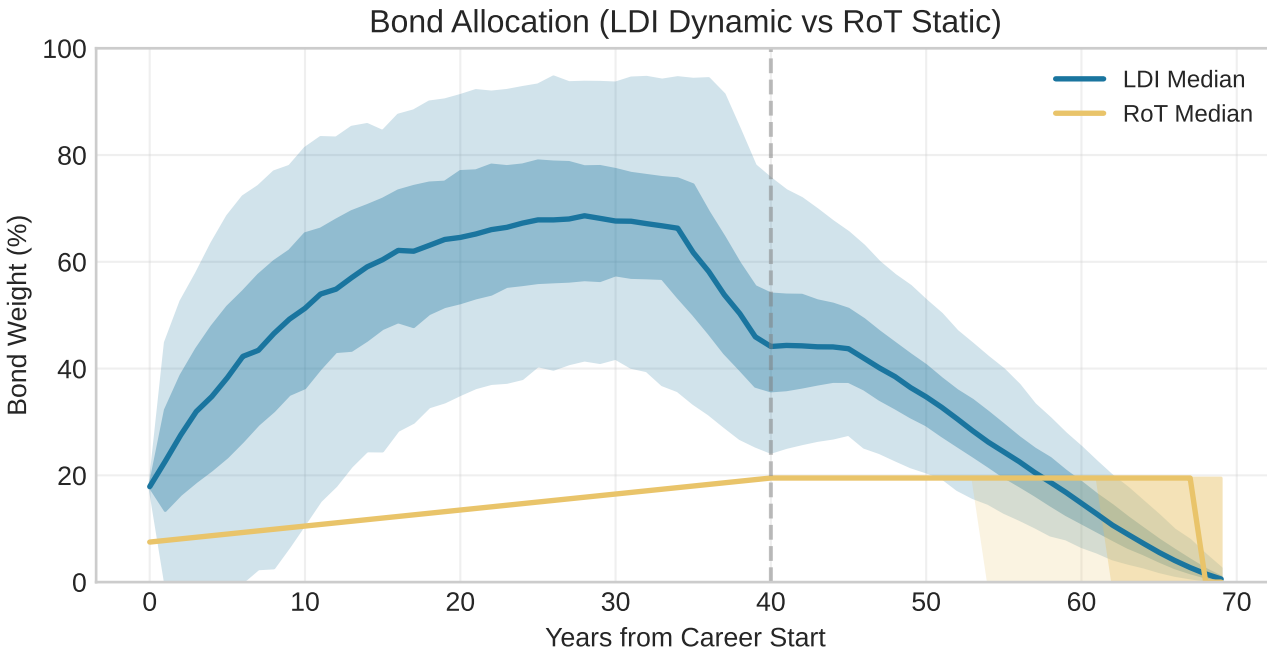
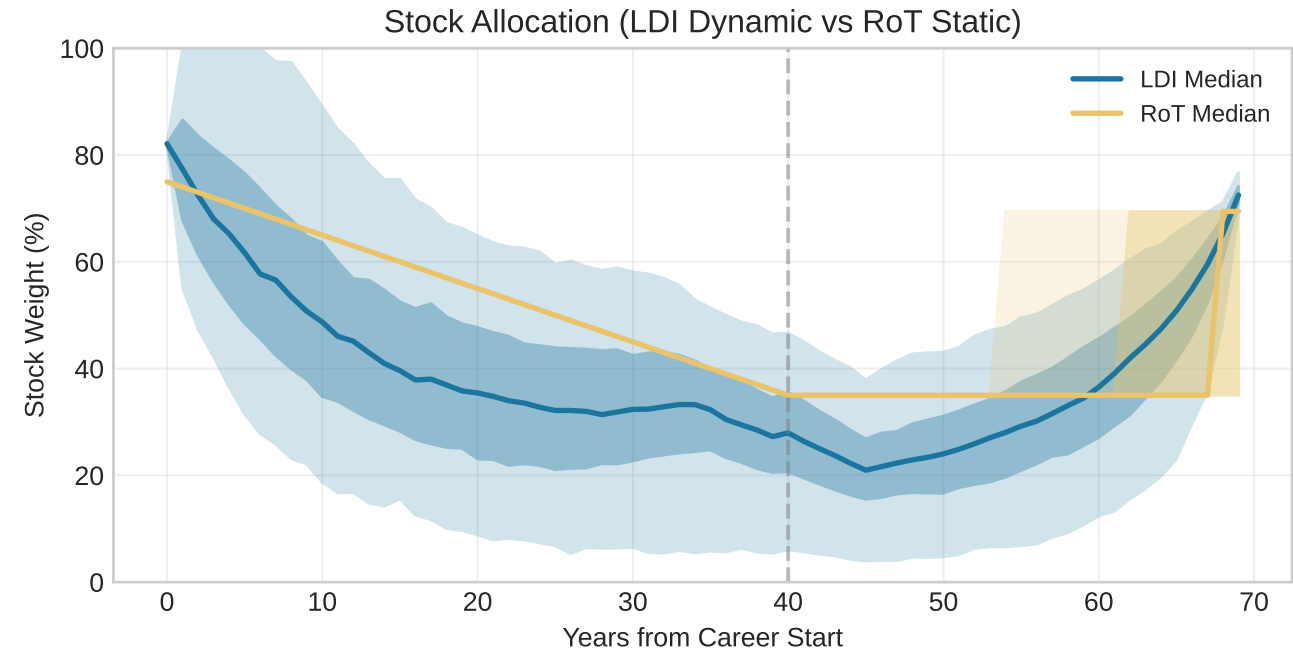
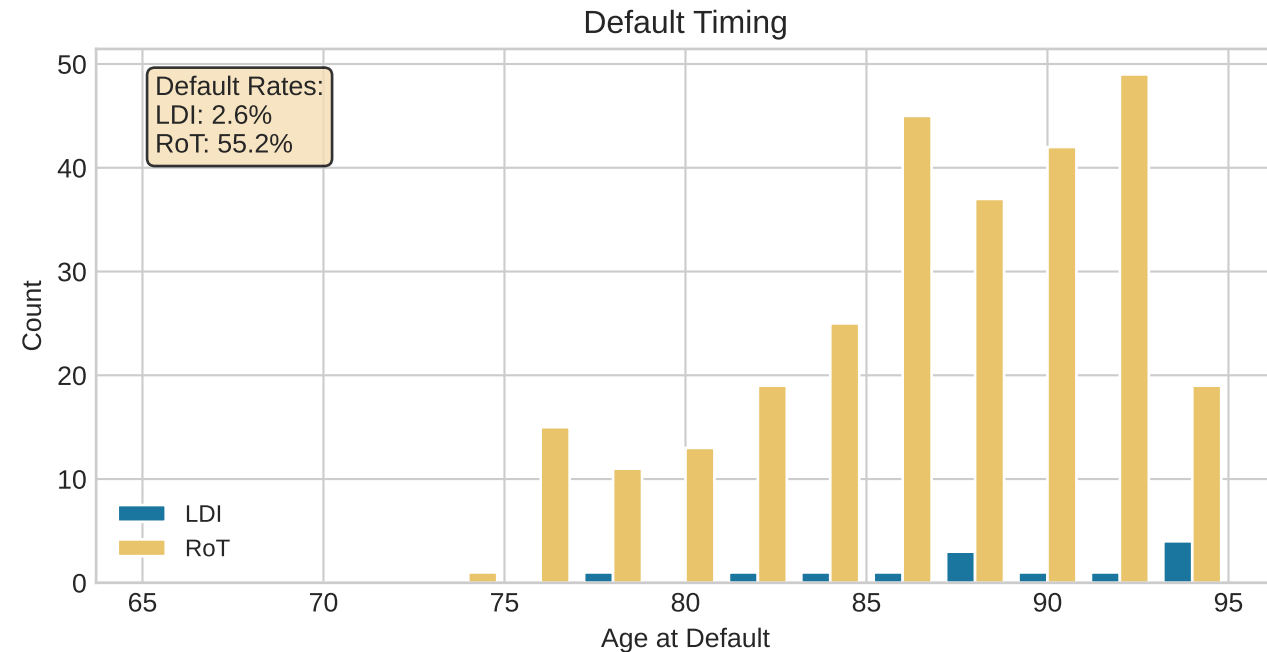
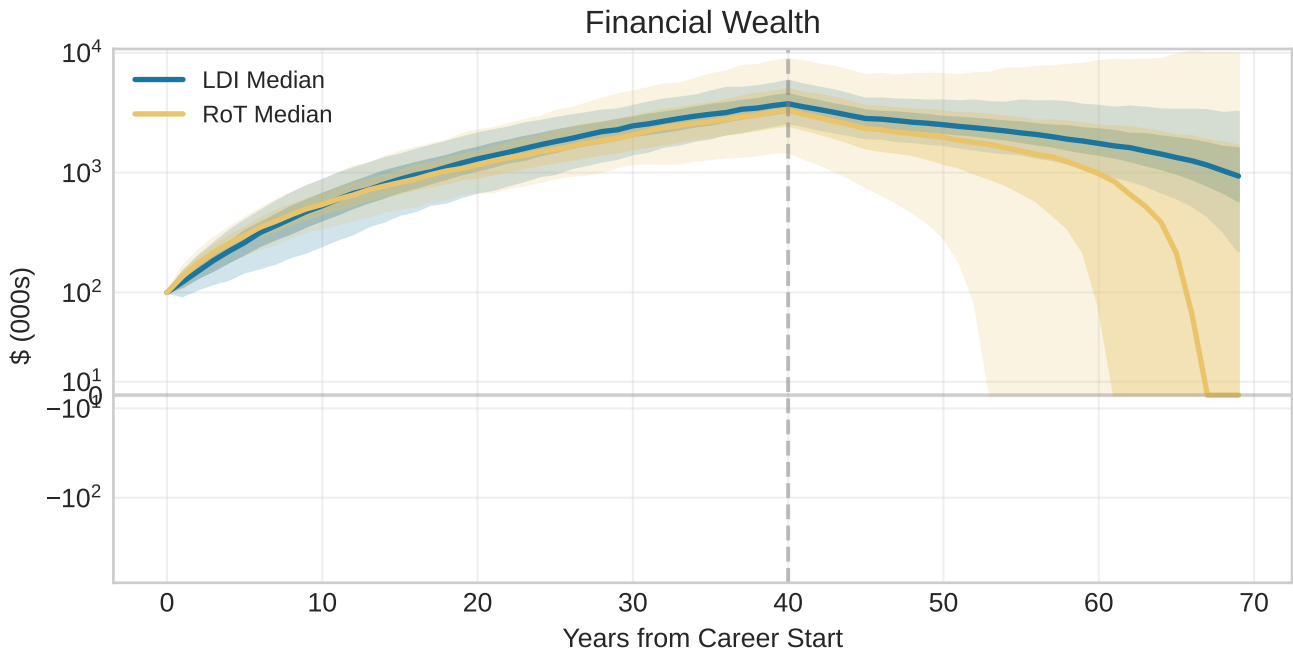
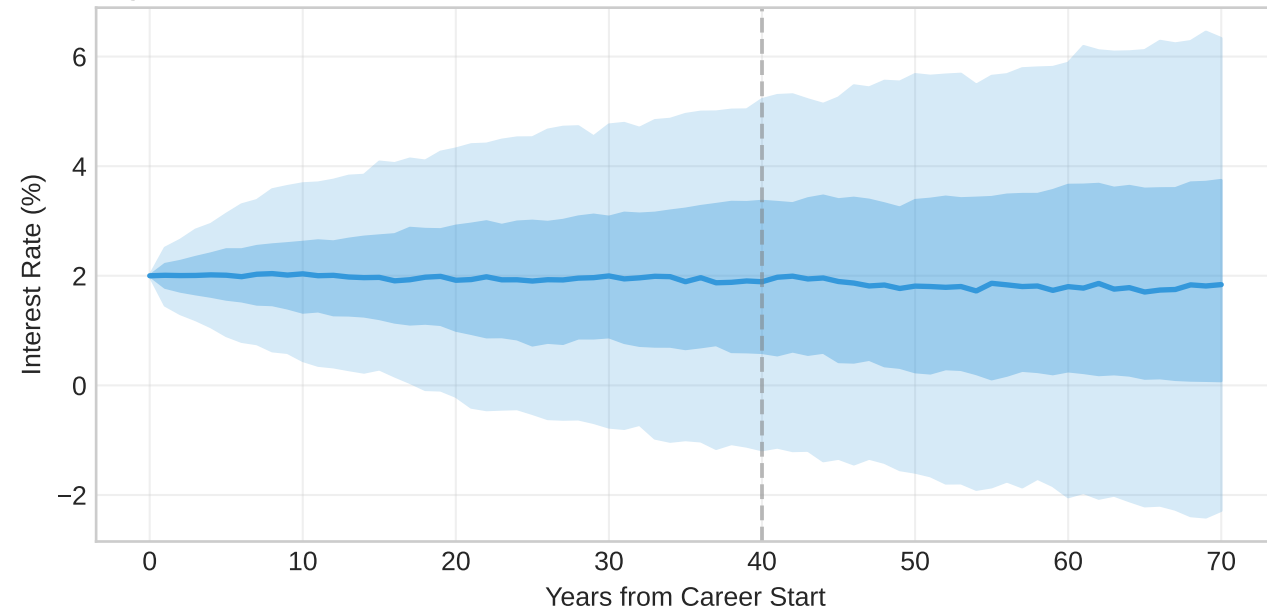
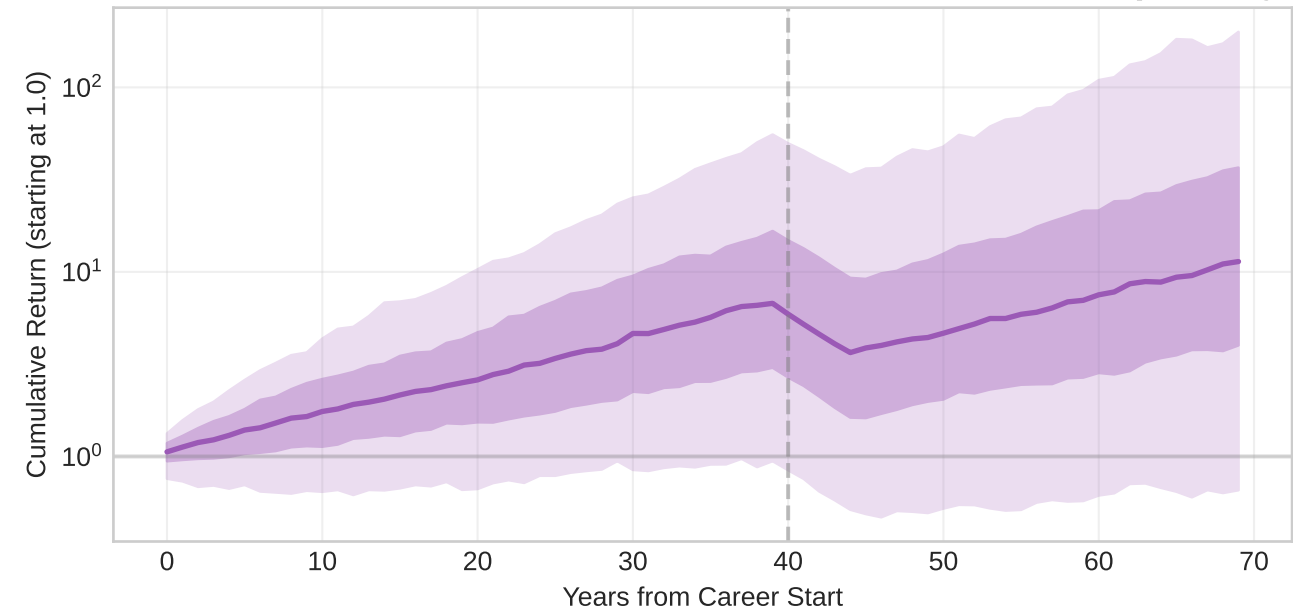
Annual Consumption (LDI vs RoT)



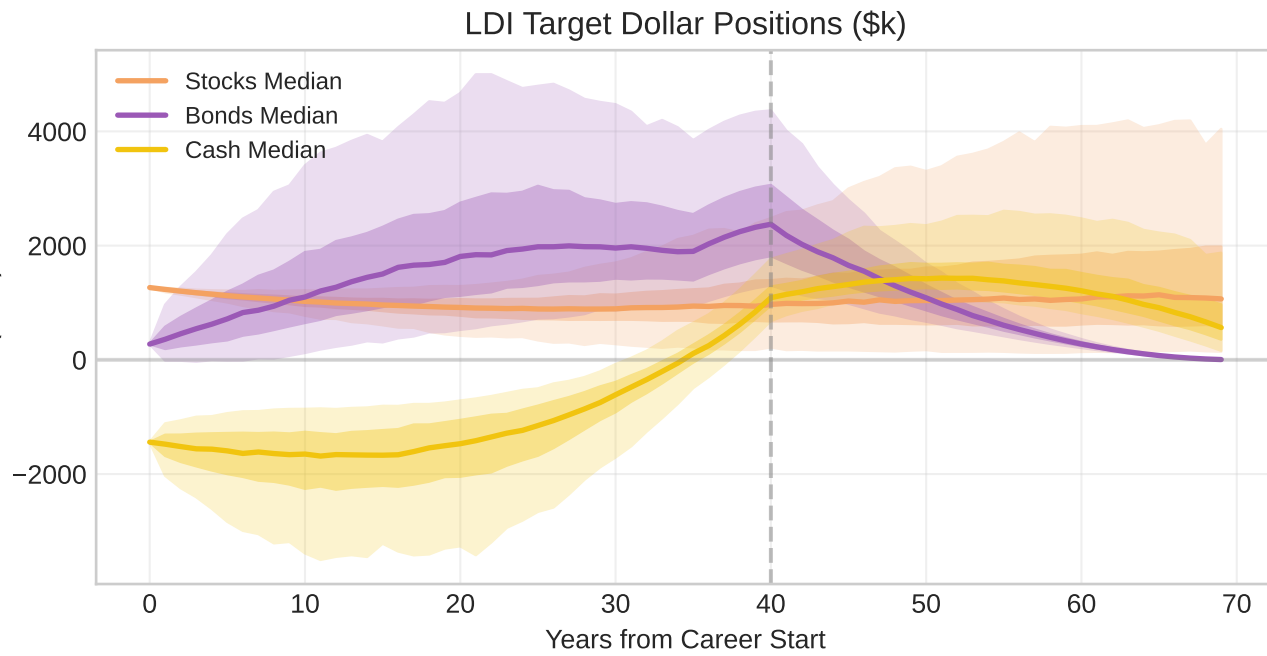
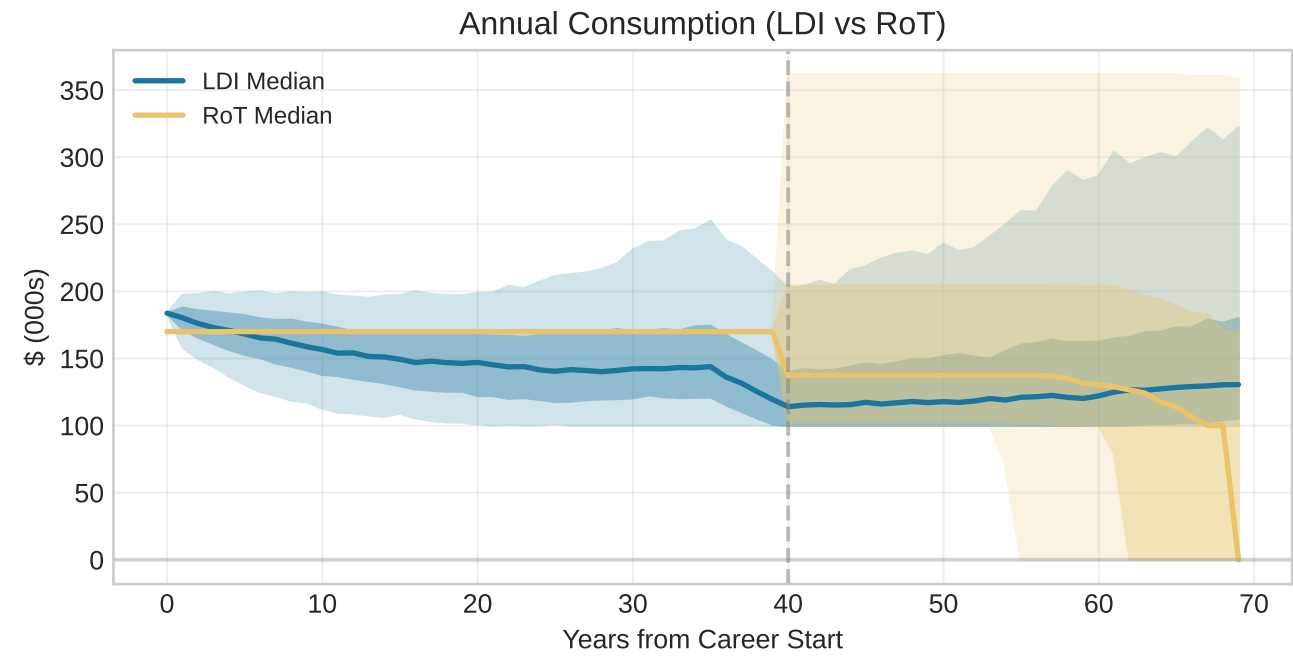
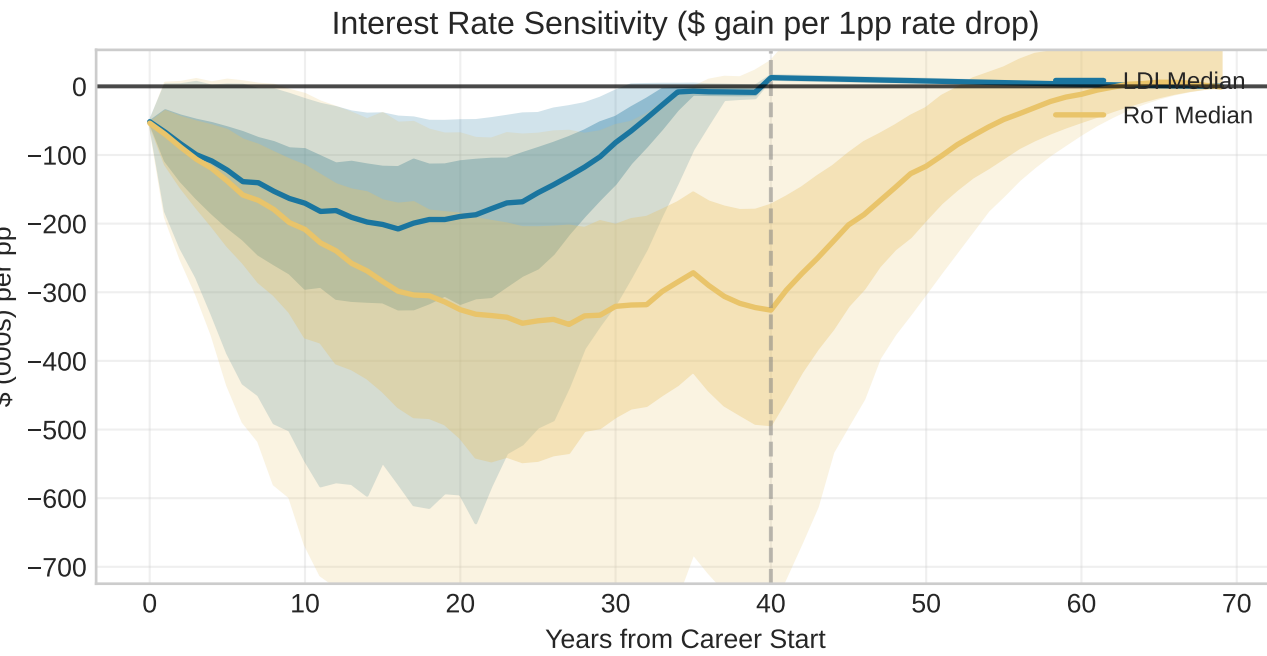
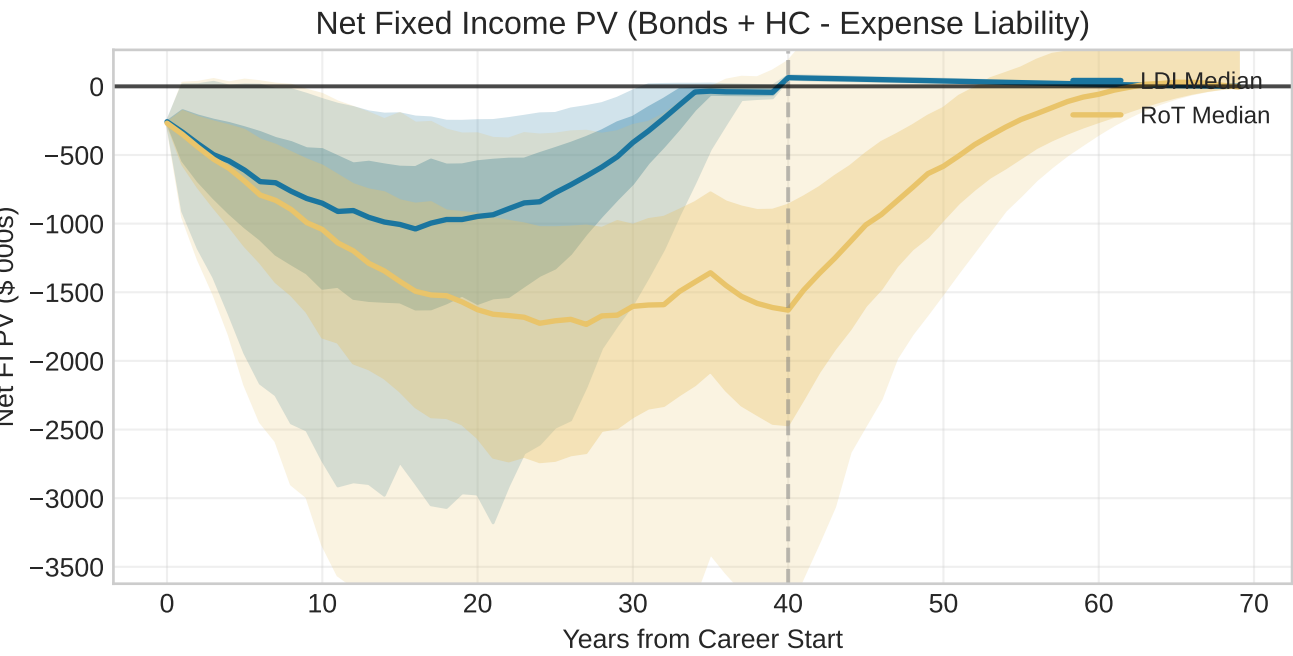
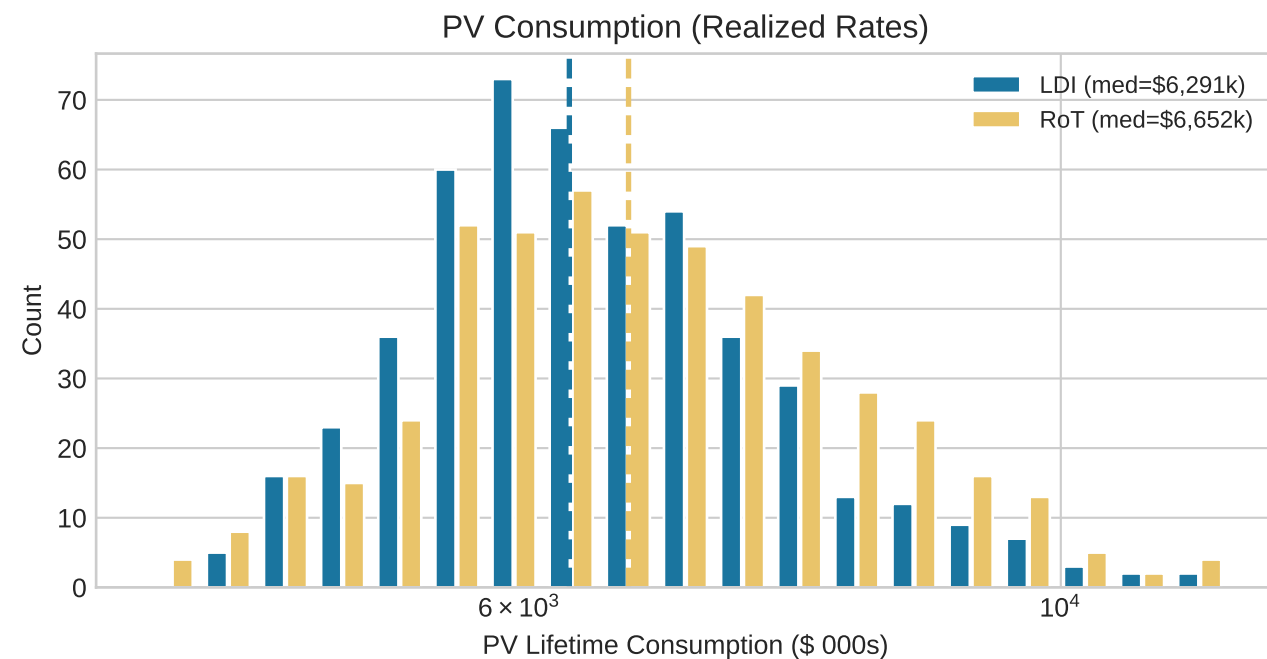
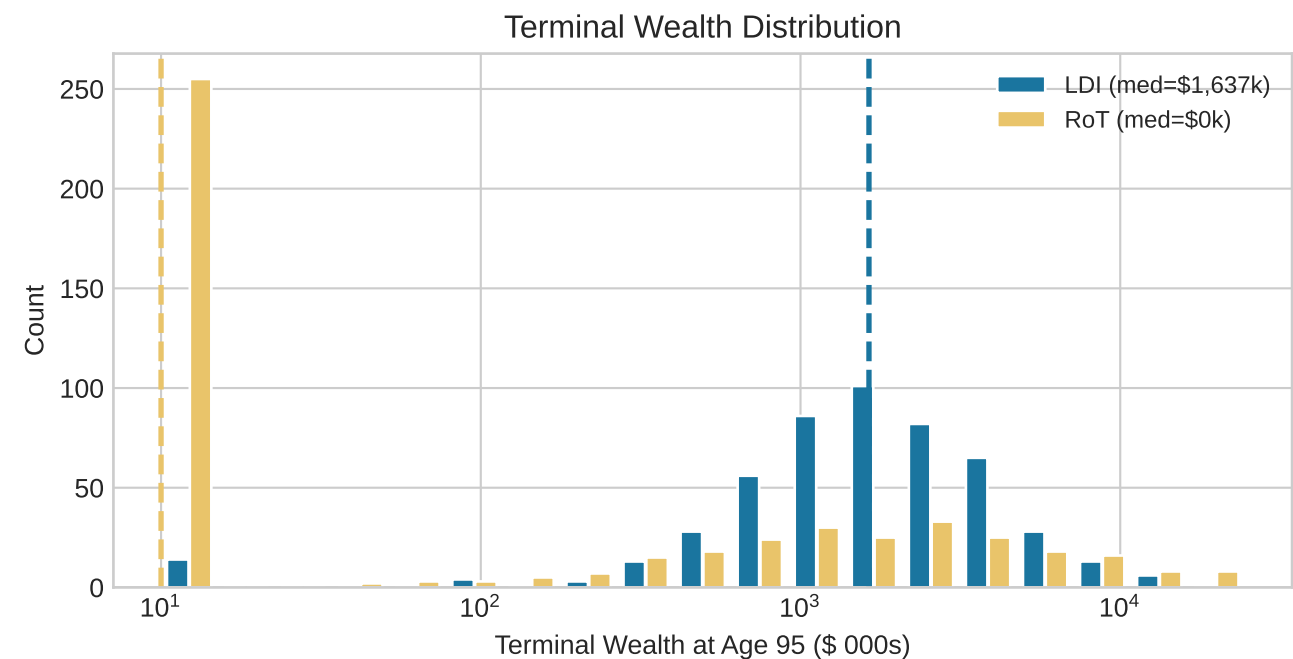
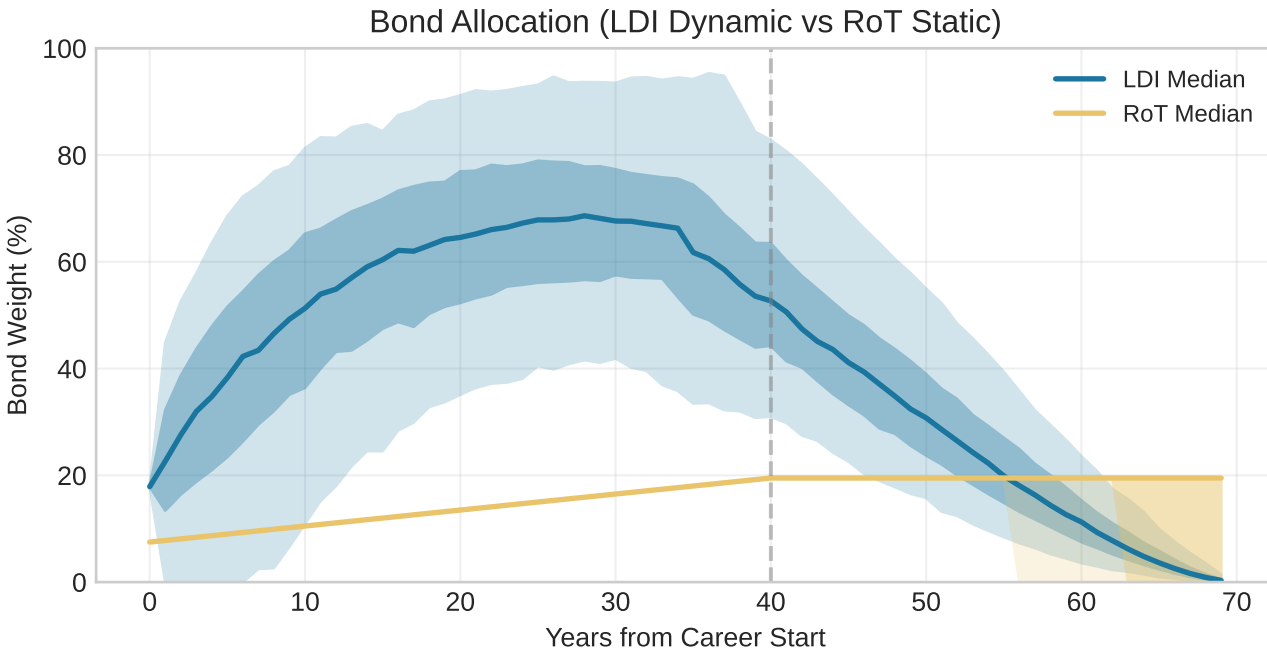
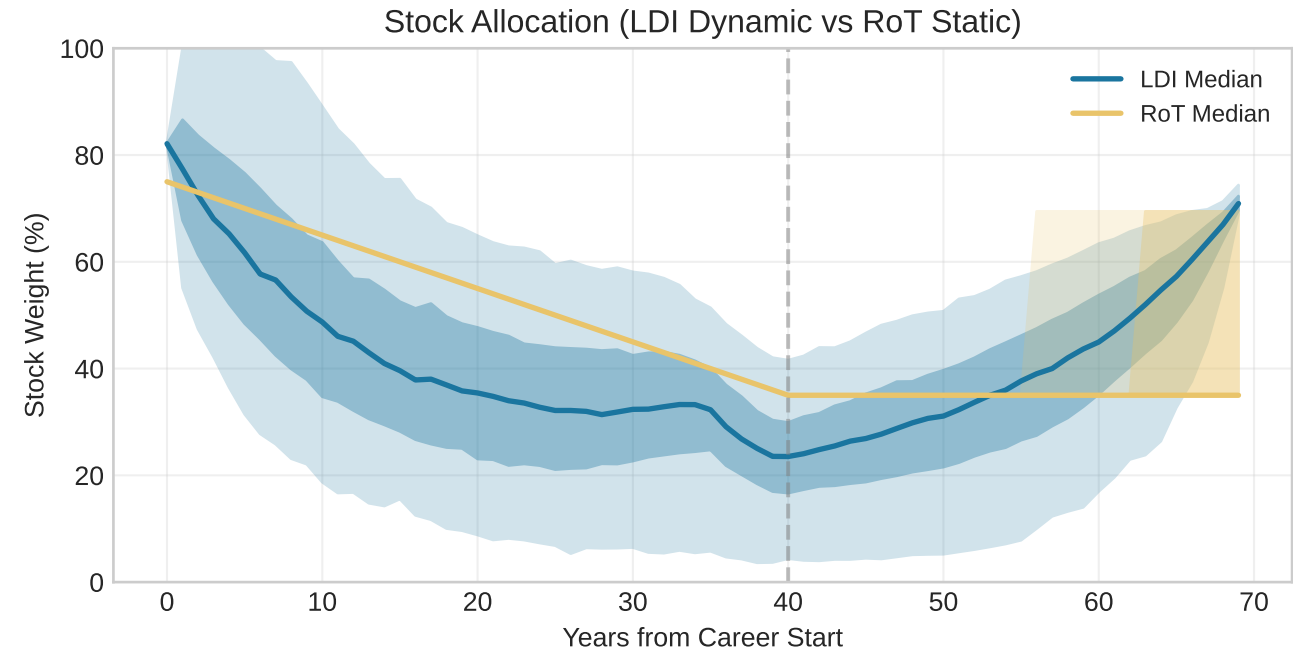
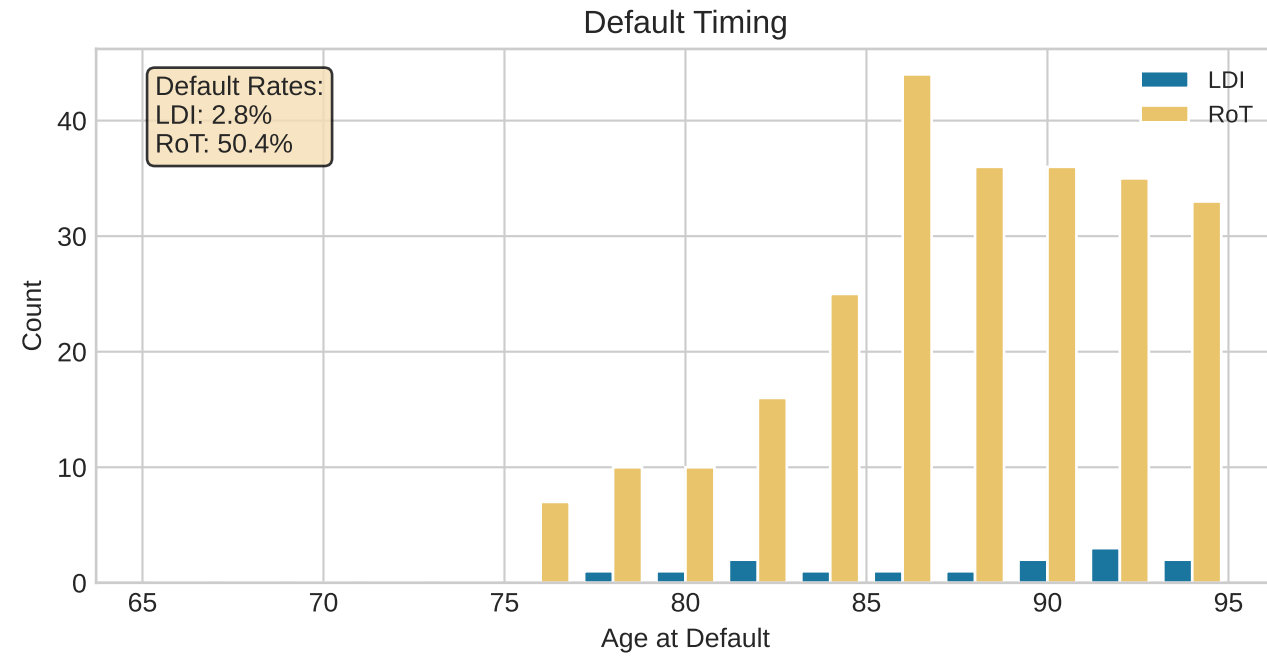
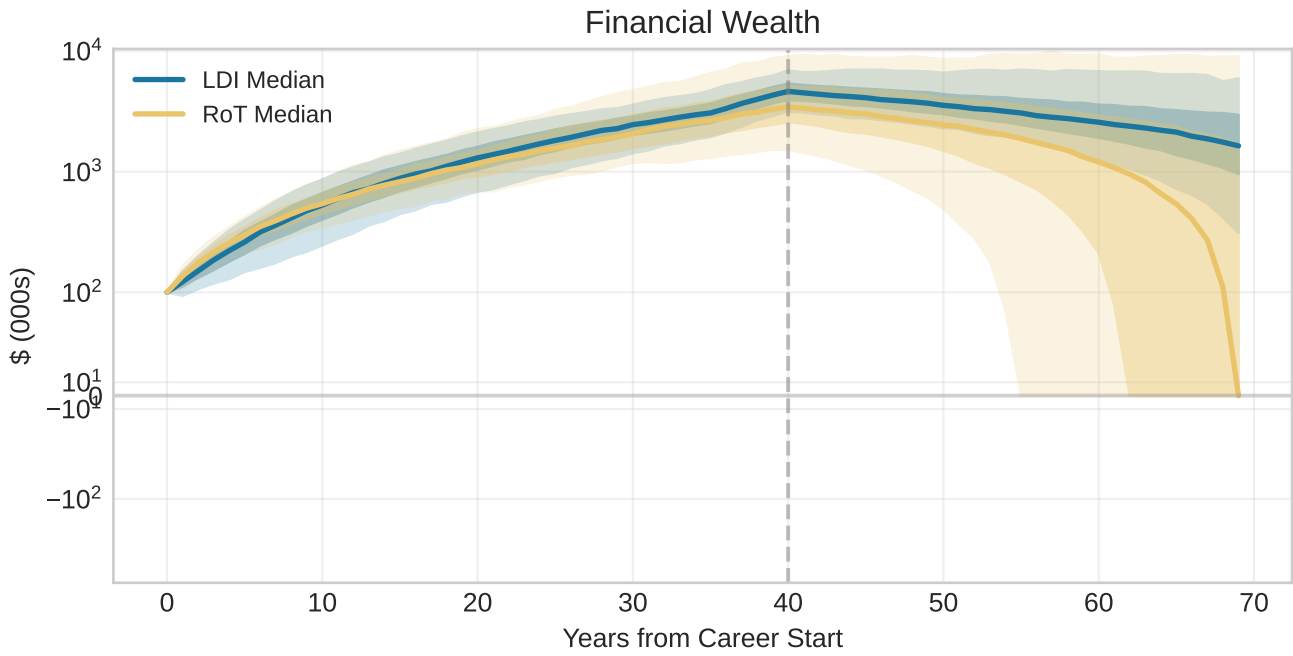
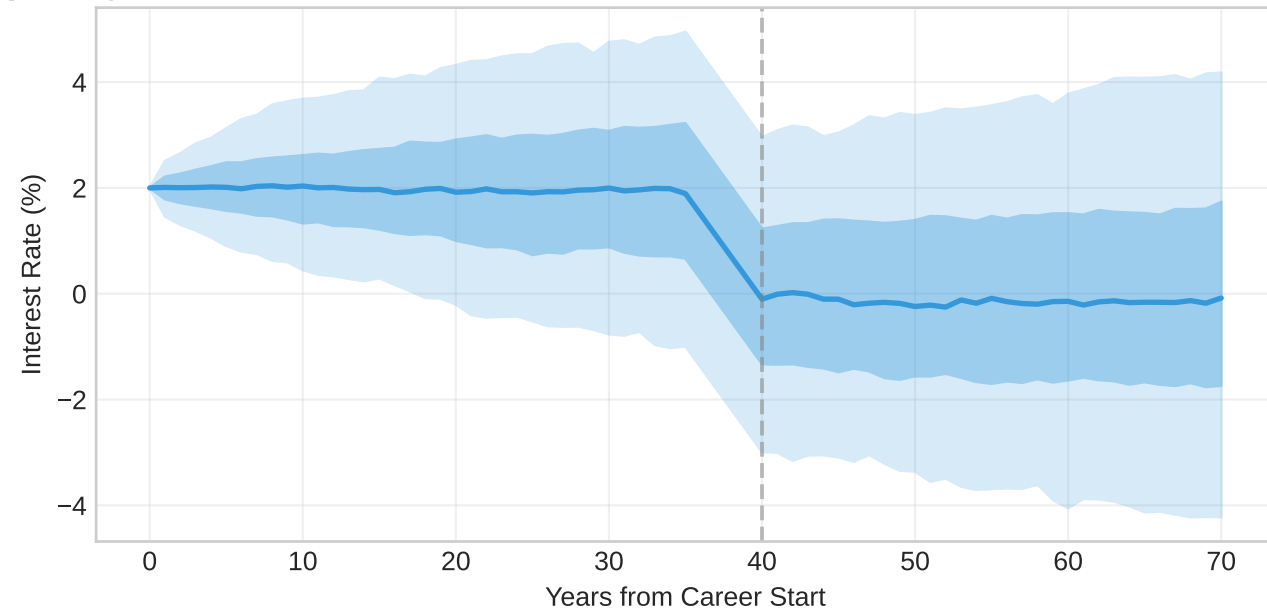
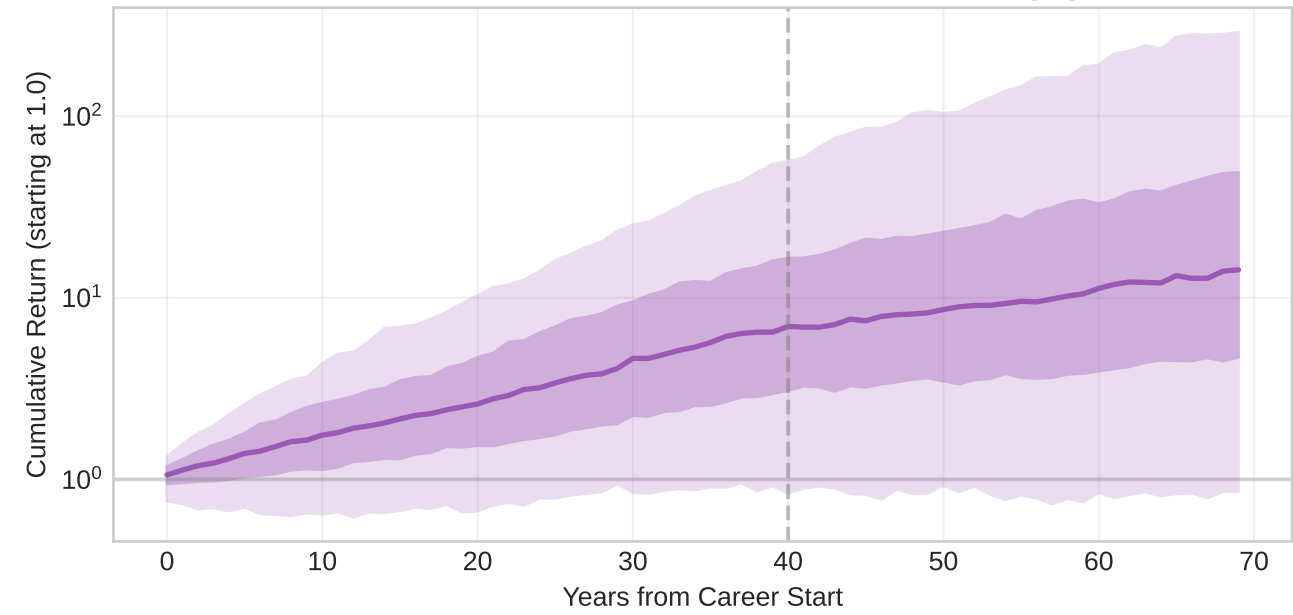
LDI Target Dollar Positions (\$k)



Sequence-of-Returns Risk ( $\beta=0$ , Bond-like HC)  
Bad stock returns (~-12%/yr) in first 5 years of retirement



Cumulative Stock Market Interest Rate drop ( $\beta=0$ , Bond-like HC) Pre-Retirement Rate Shock (~4% cumulative) in 5 years before retirement Interest Rate Paths

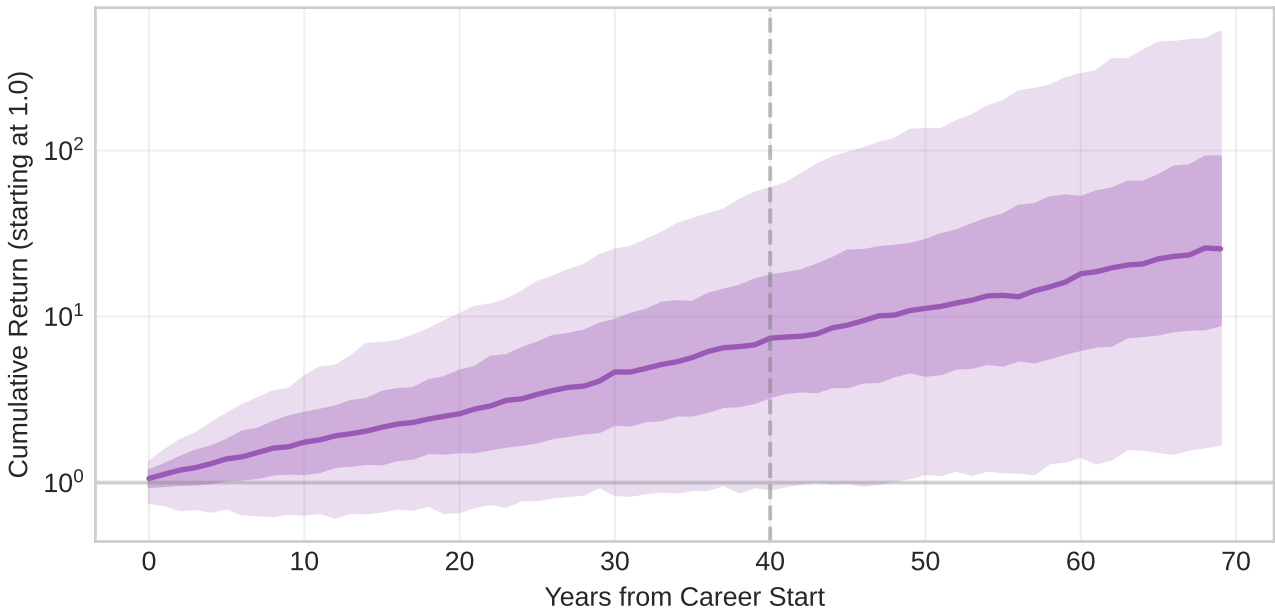




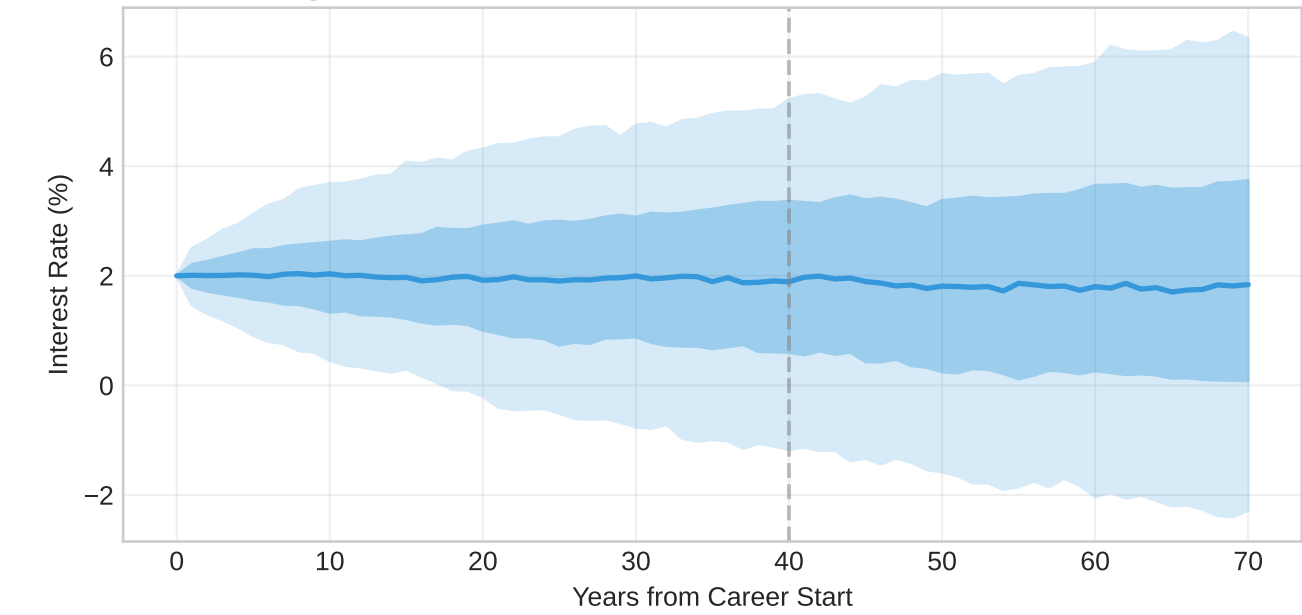
Baseline: Normal Monte Carlo ( $\beta=0.4$ )

Standard random shocks - no scenario manipulation

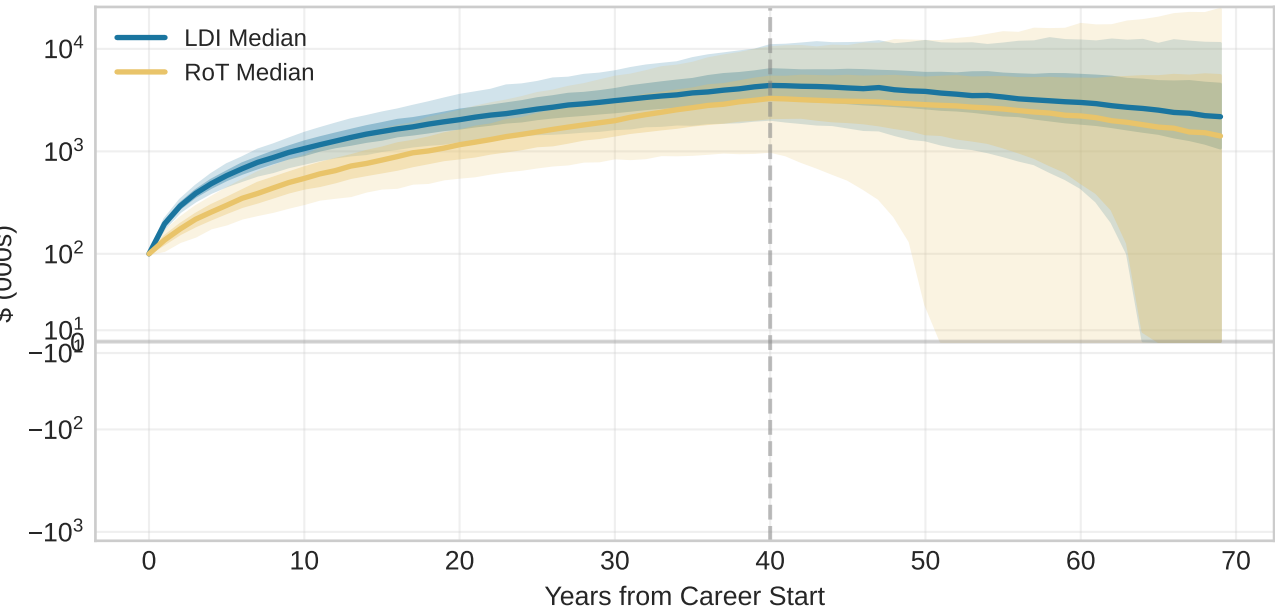
Cumulative Stock Market Return



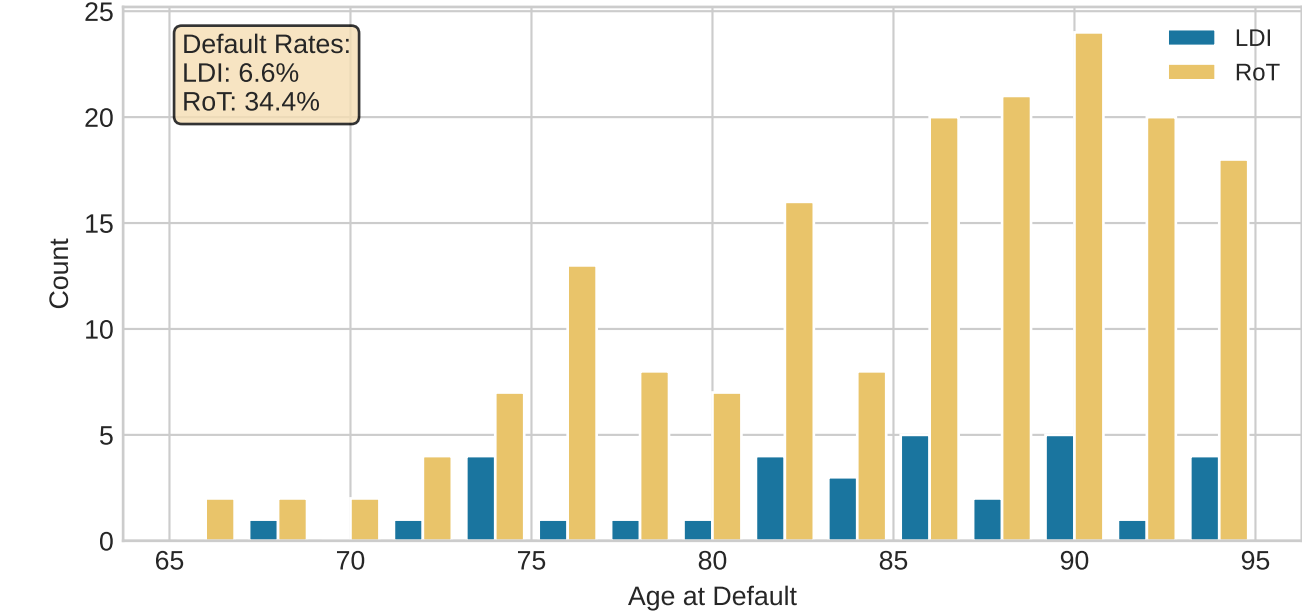
Interest Rate Paths



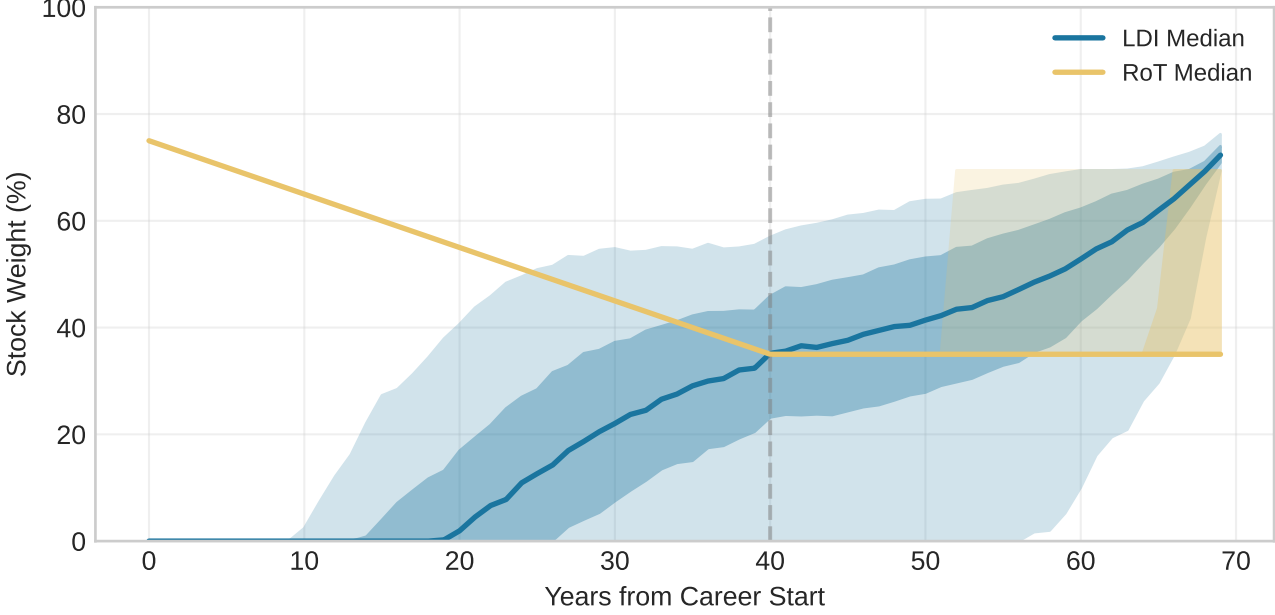
Financial Wealth



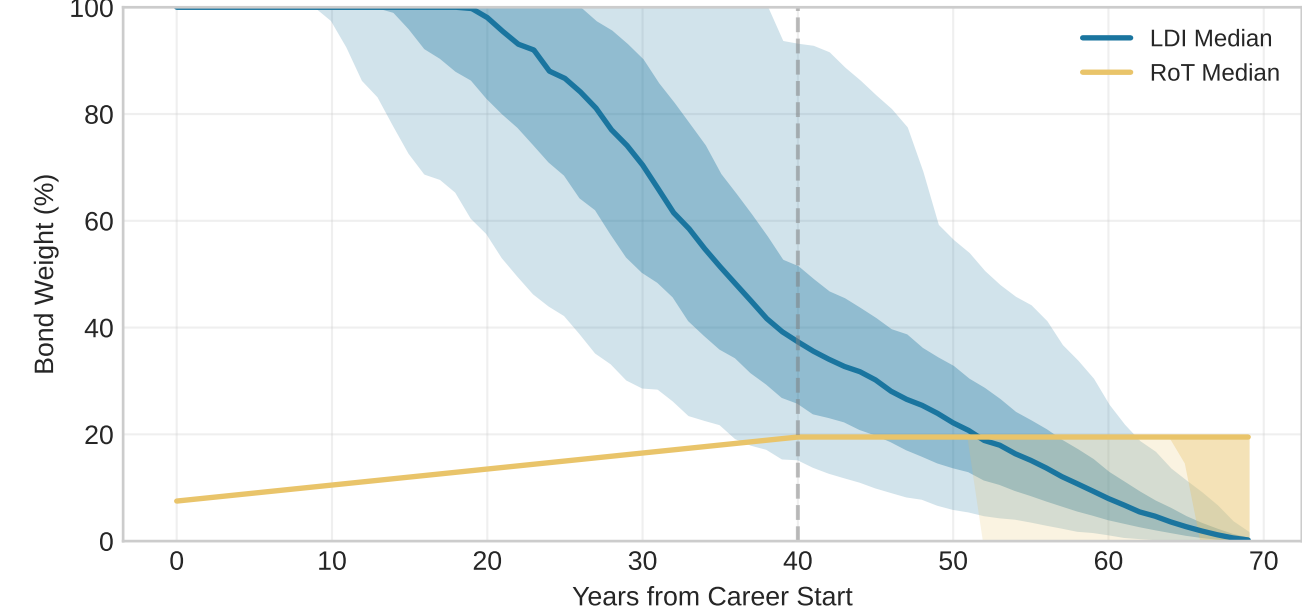
Default Timing



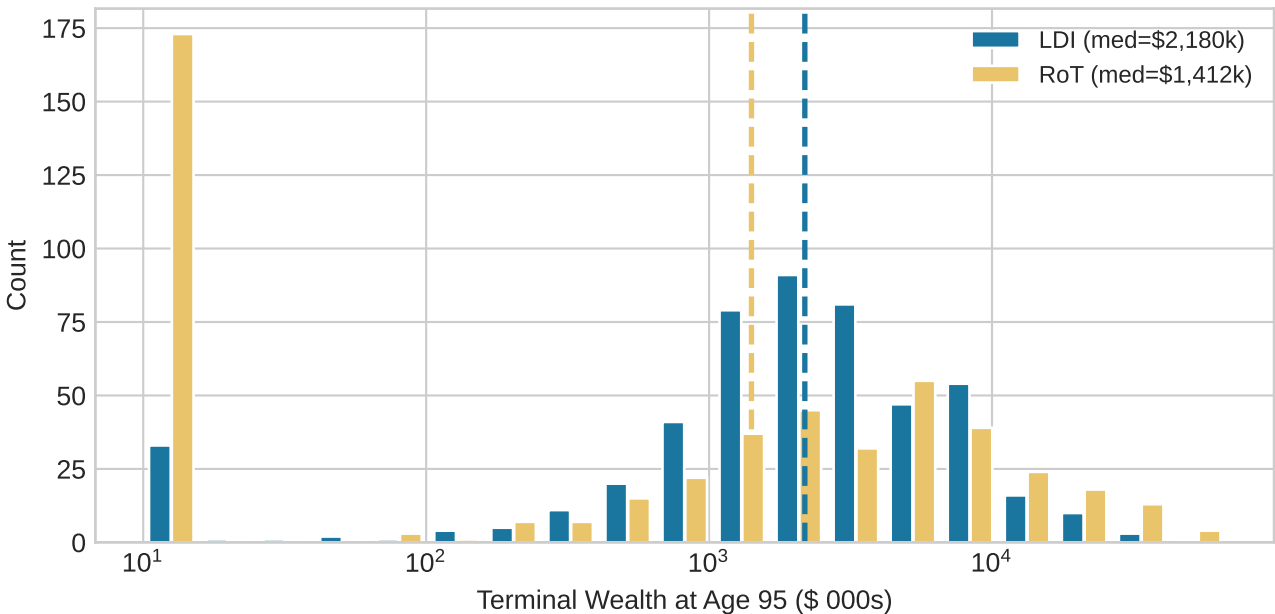
Stock Allocation (LDI Dynamic vs RoT Static)



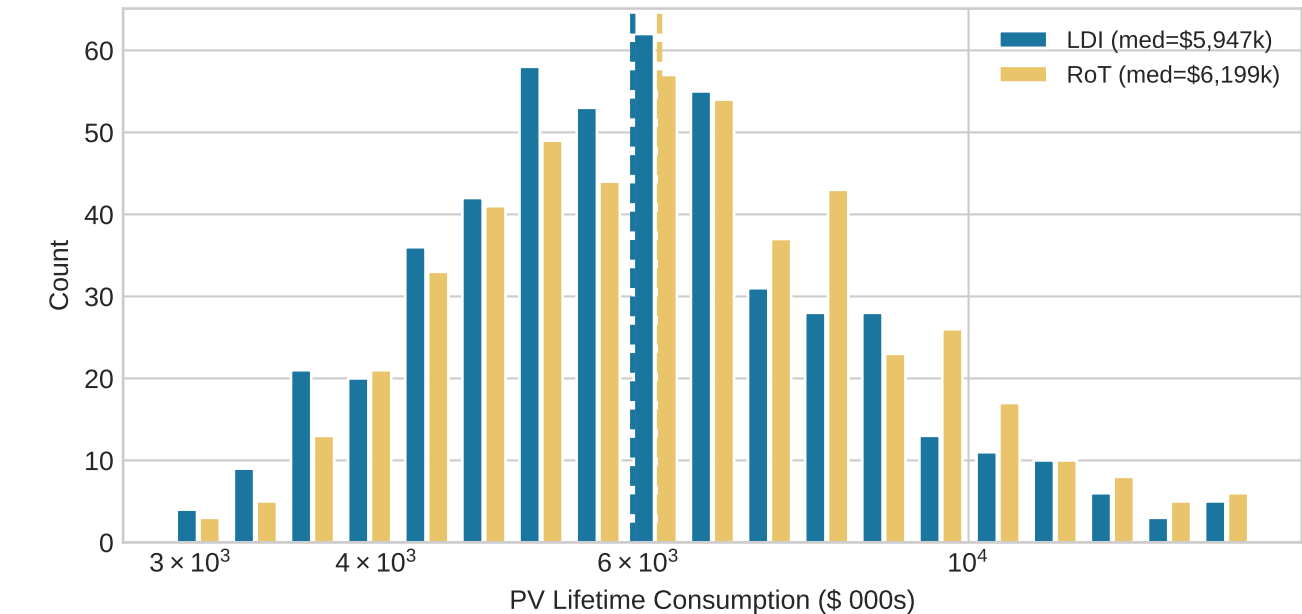
Bond Allocation (LDI Dynamic vs RoT Static)



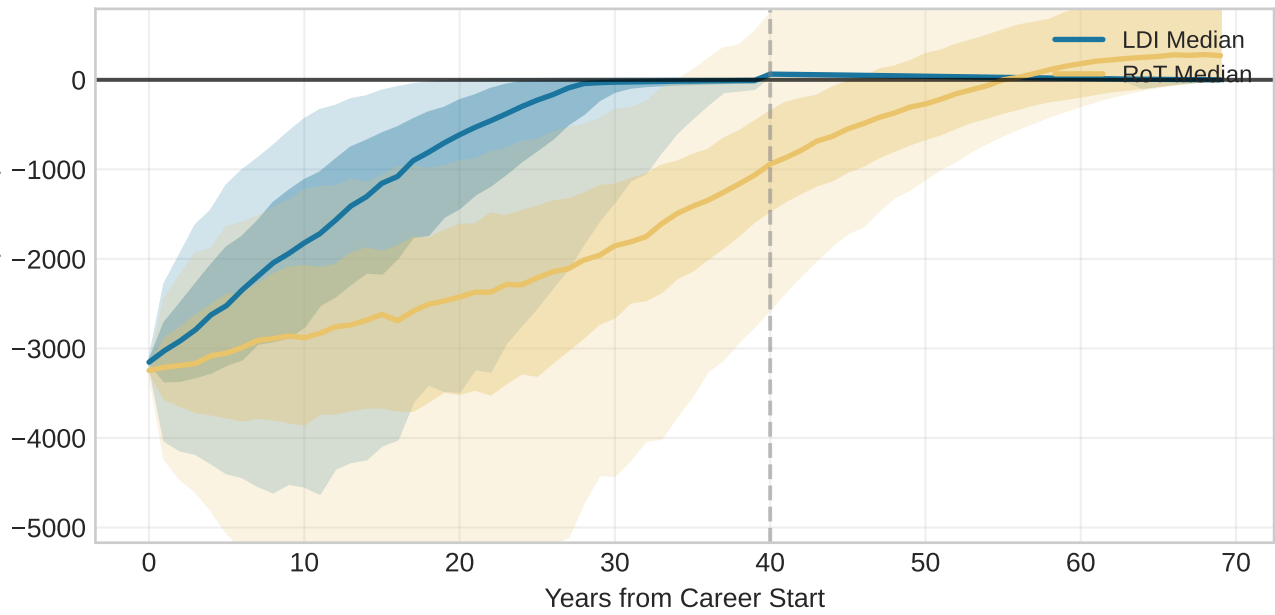
Terminal Wealth Distribution



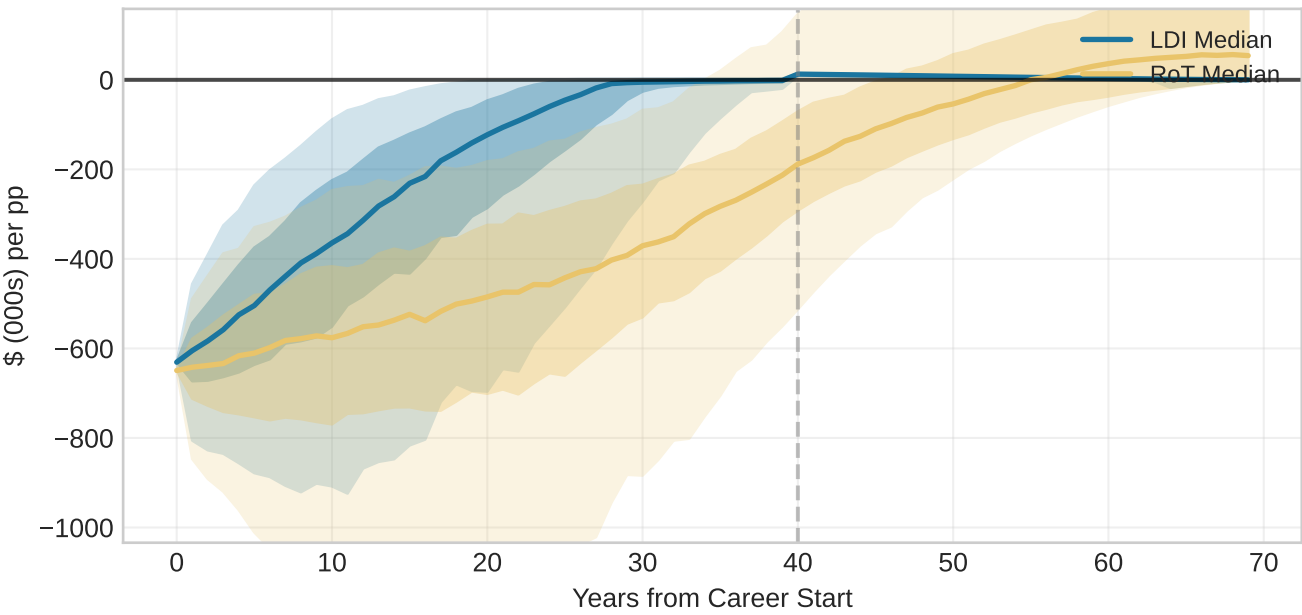
PV Consumption (Realized Rates)



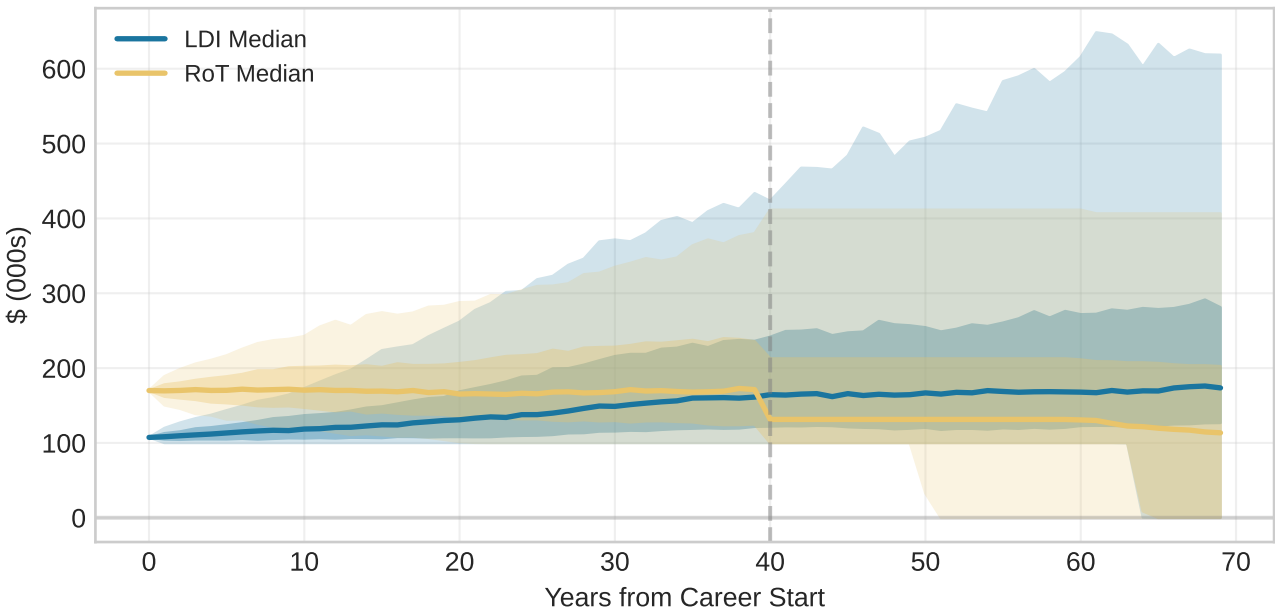
Net Fixed Income PV (Bonds + HC - Expense Liability)



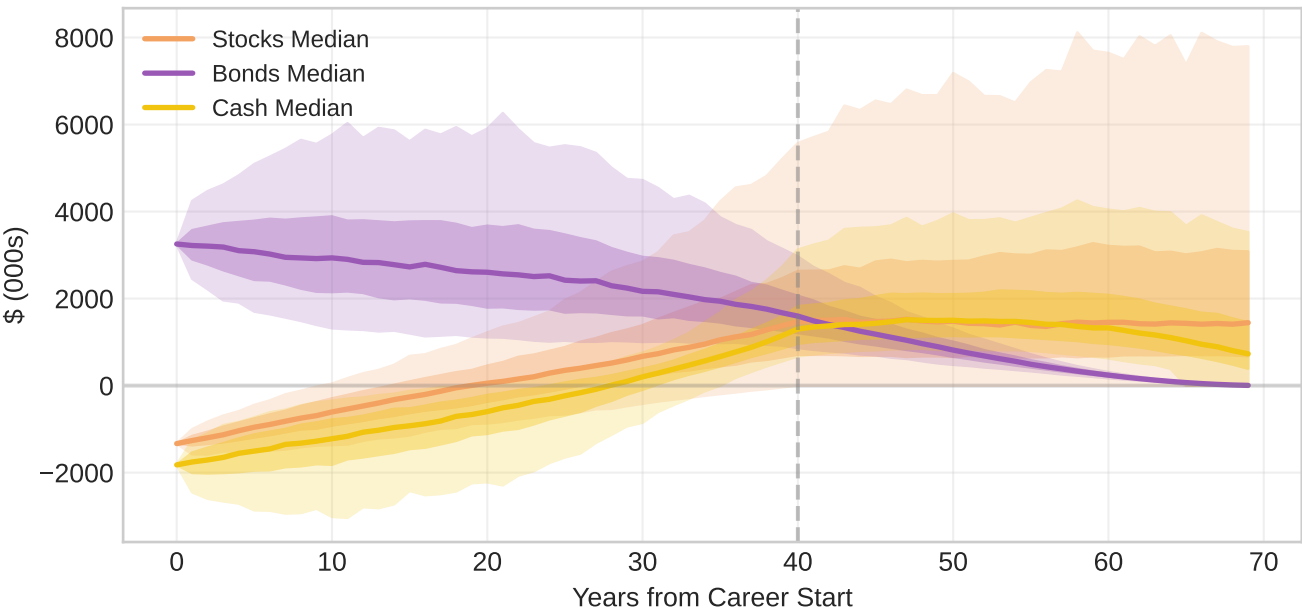
Interest Rate Sensitivity (\$ gain per 1pp rate drop)



Annual Consumption (LDI vs RoT)

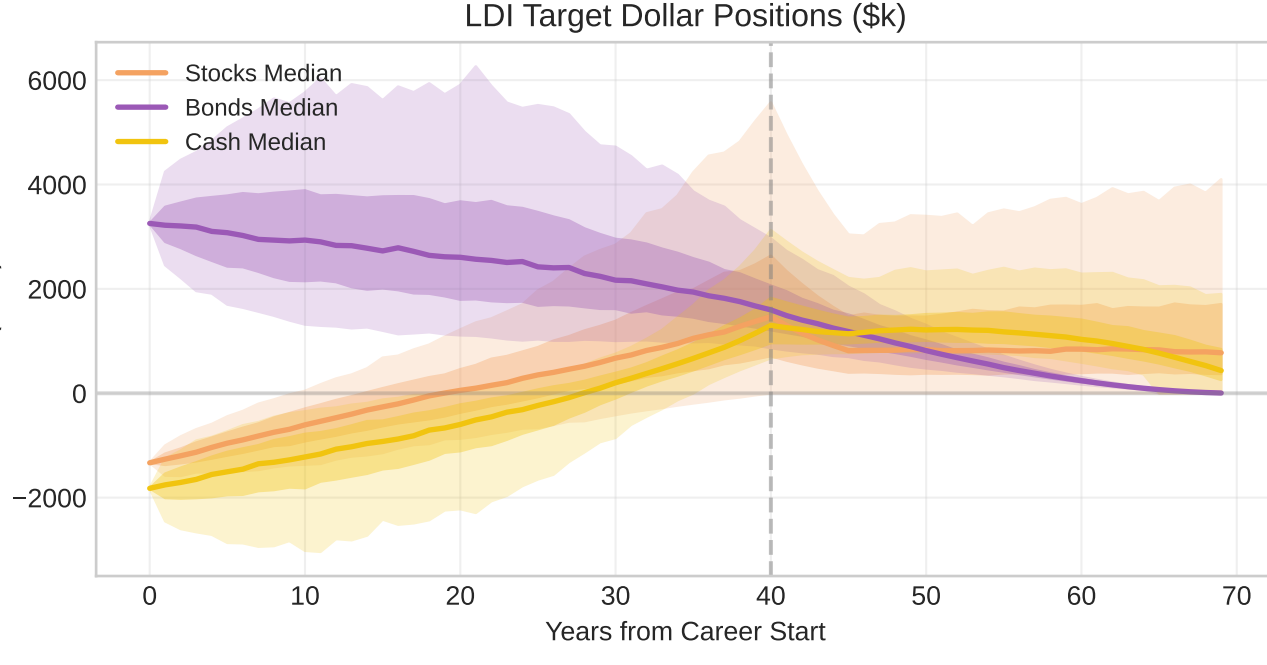
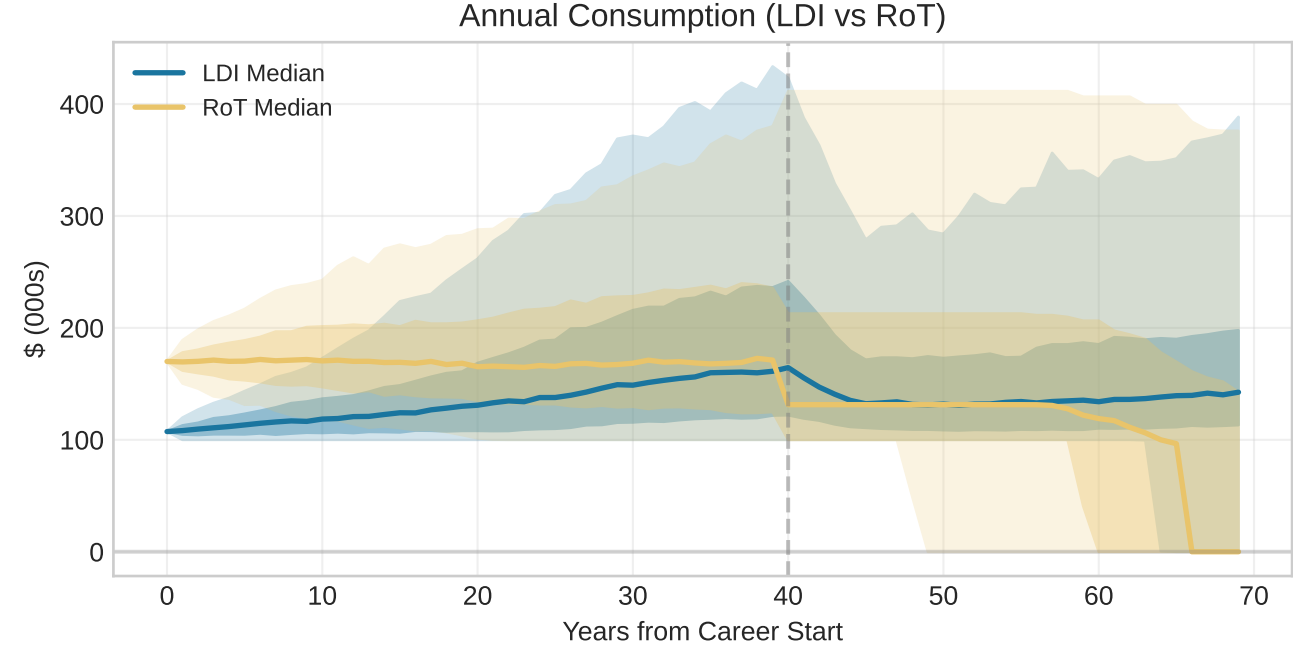
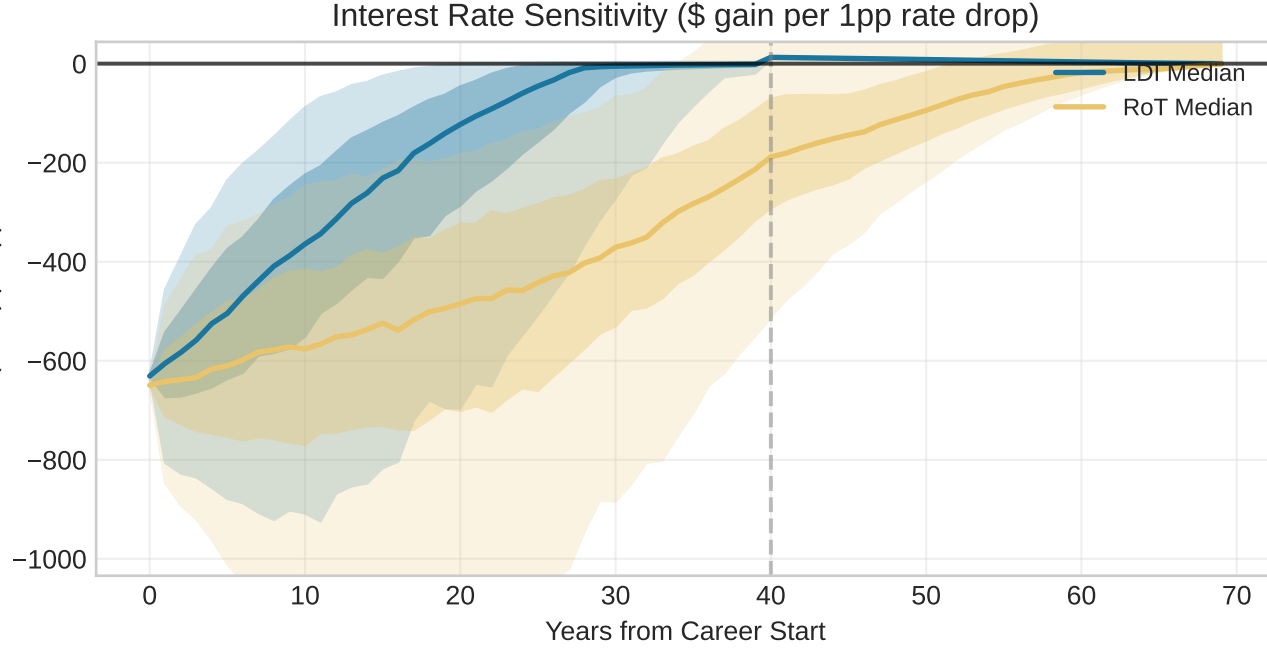
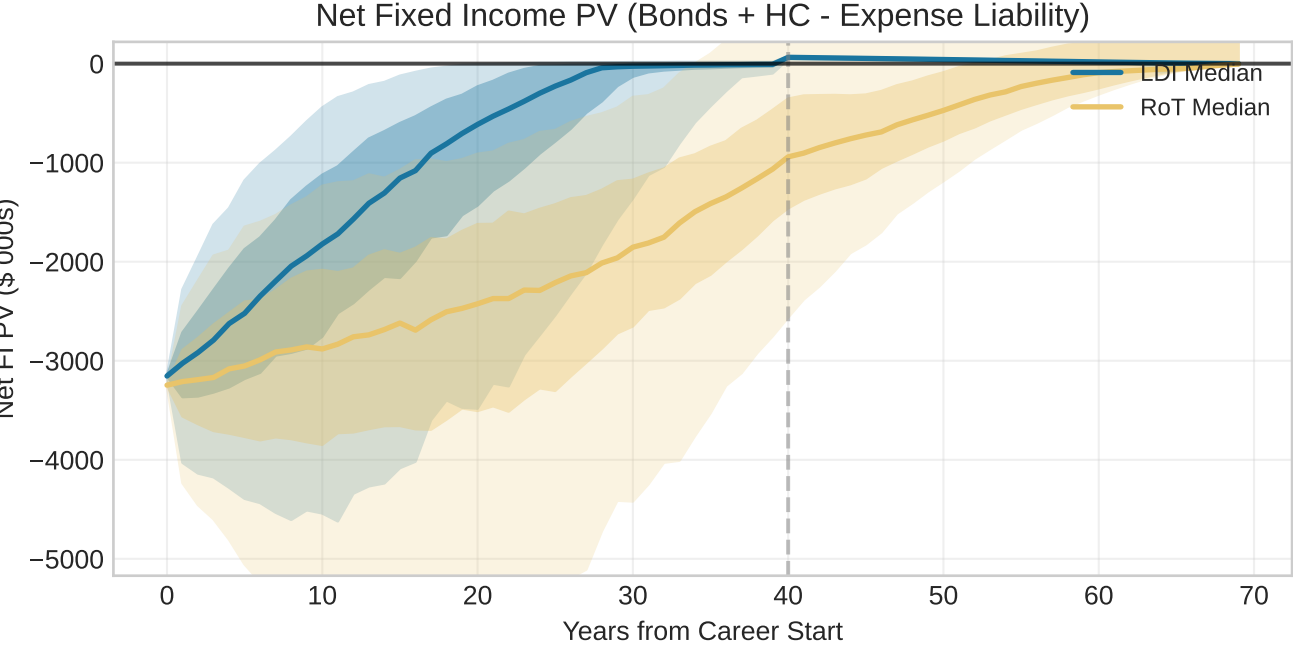
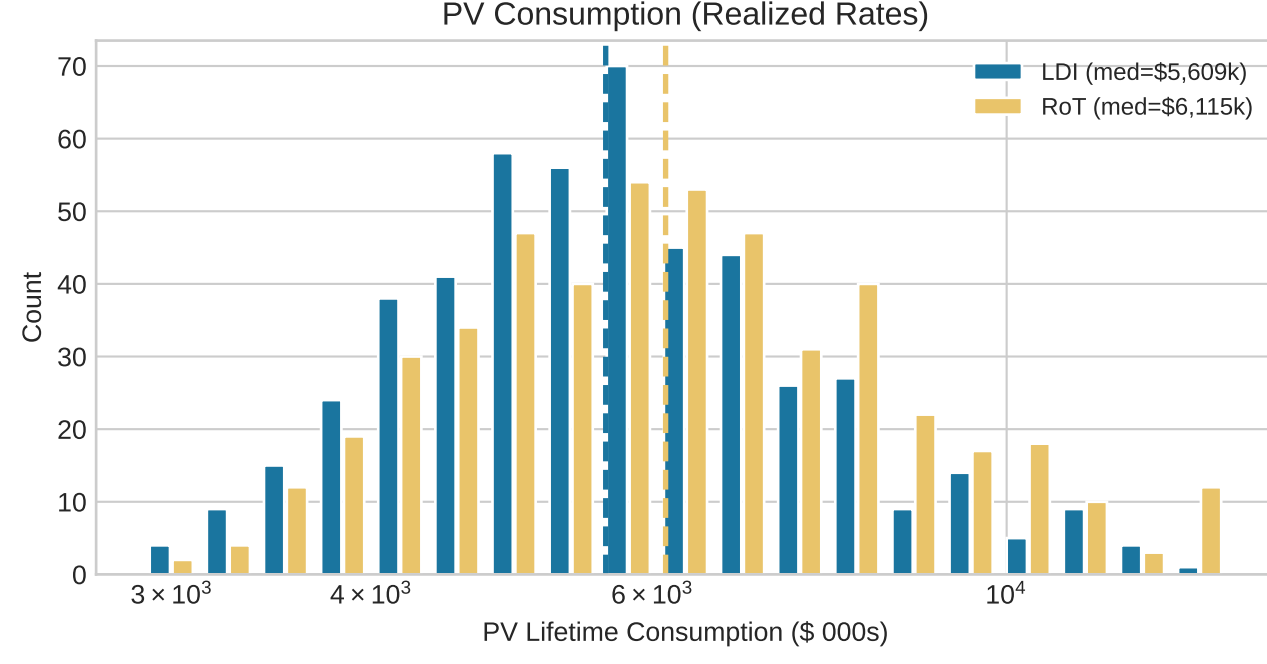
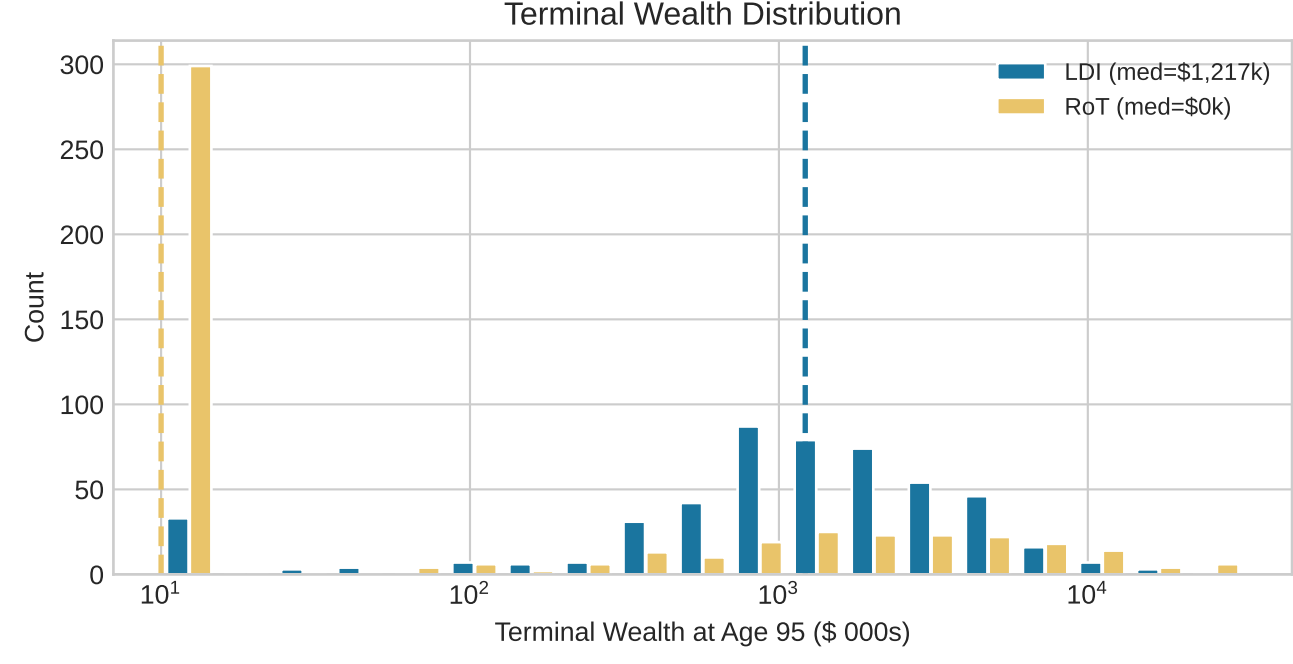
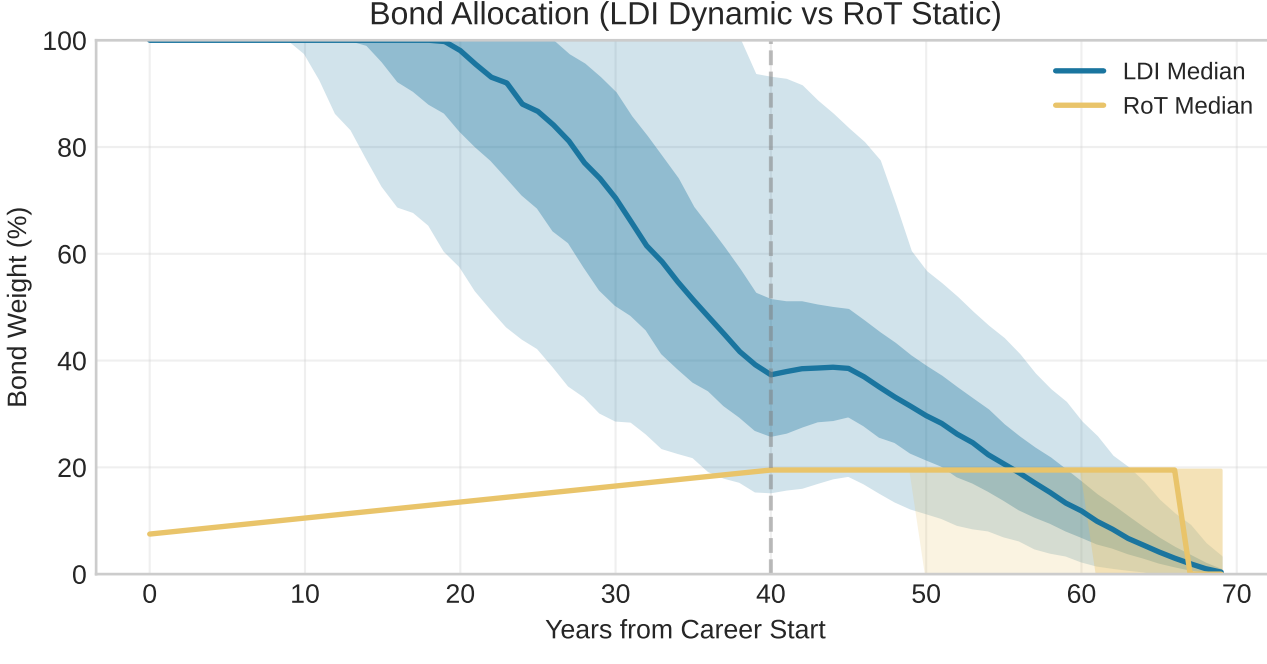
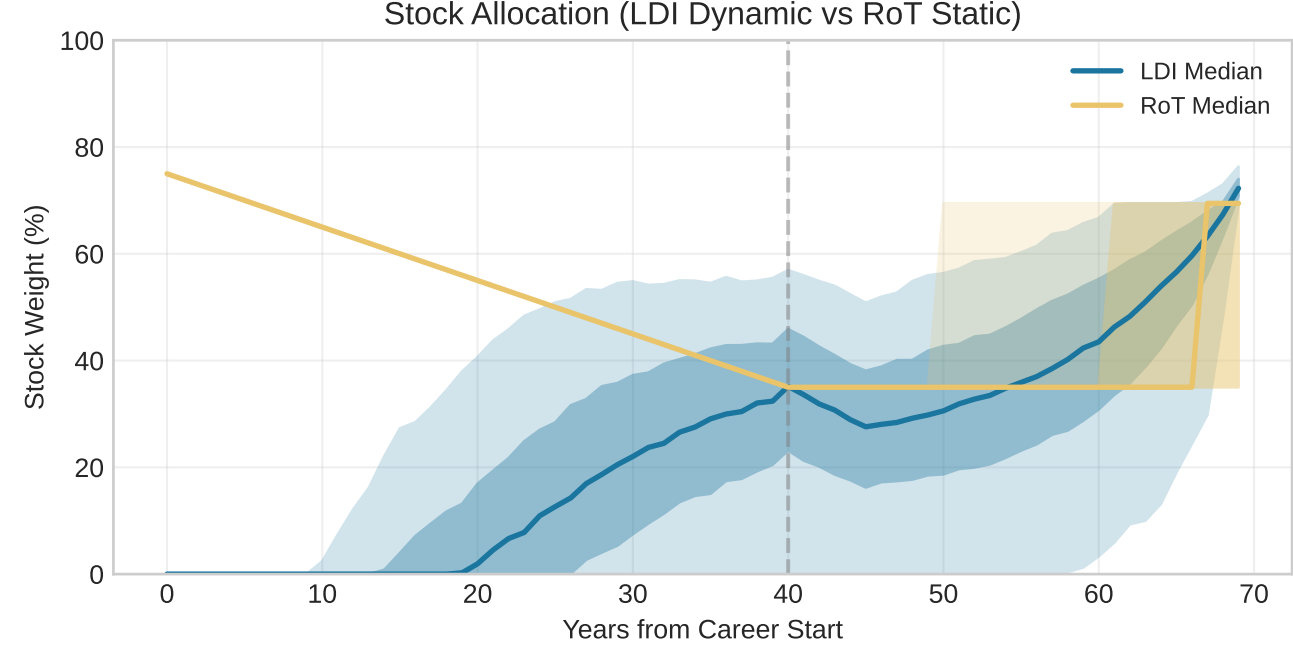
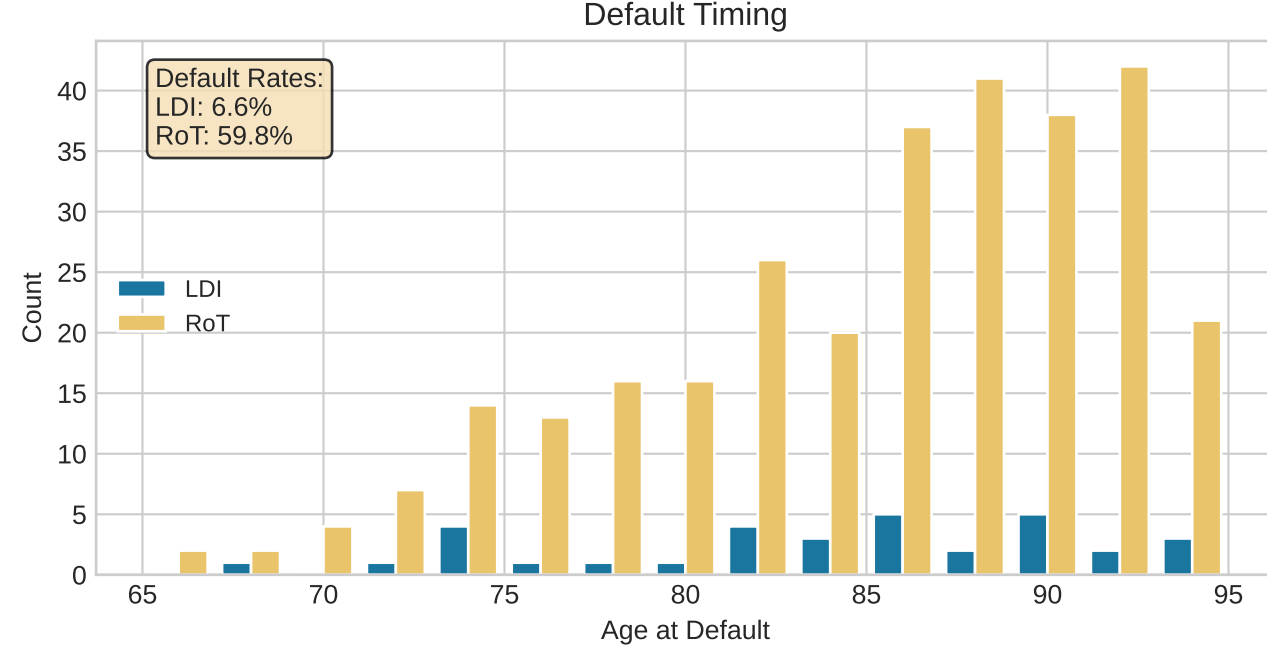
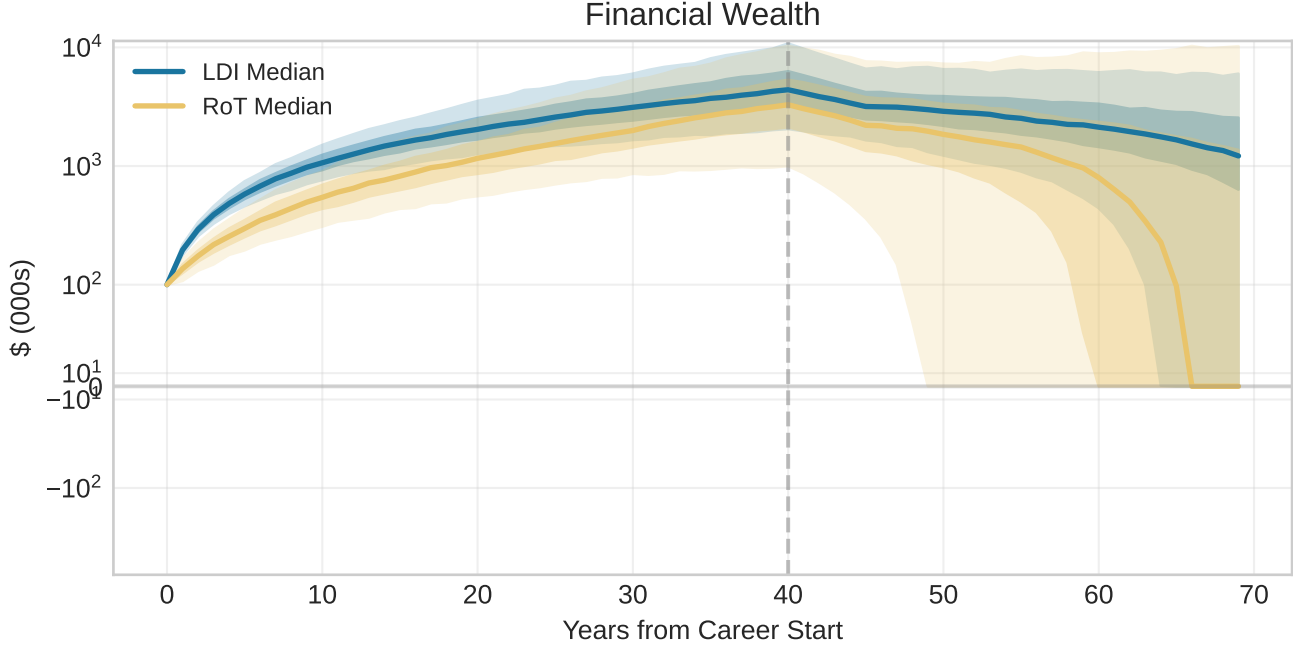
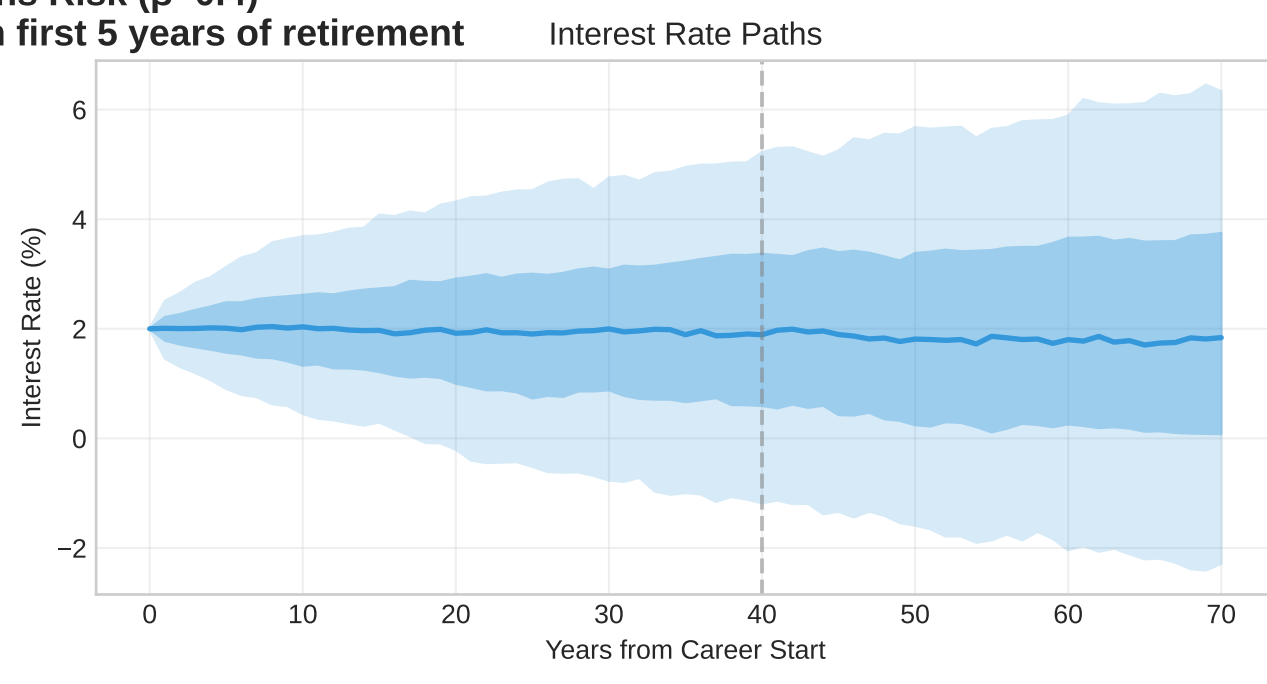
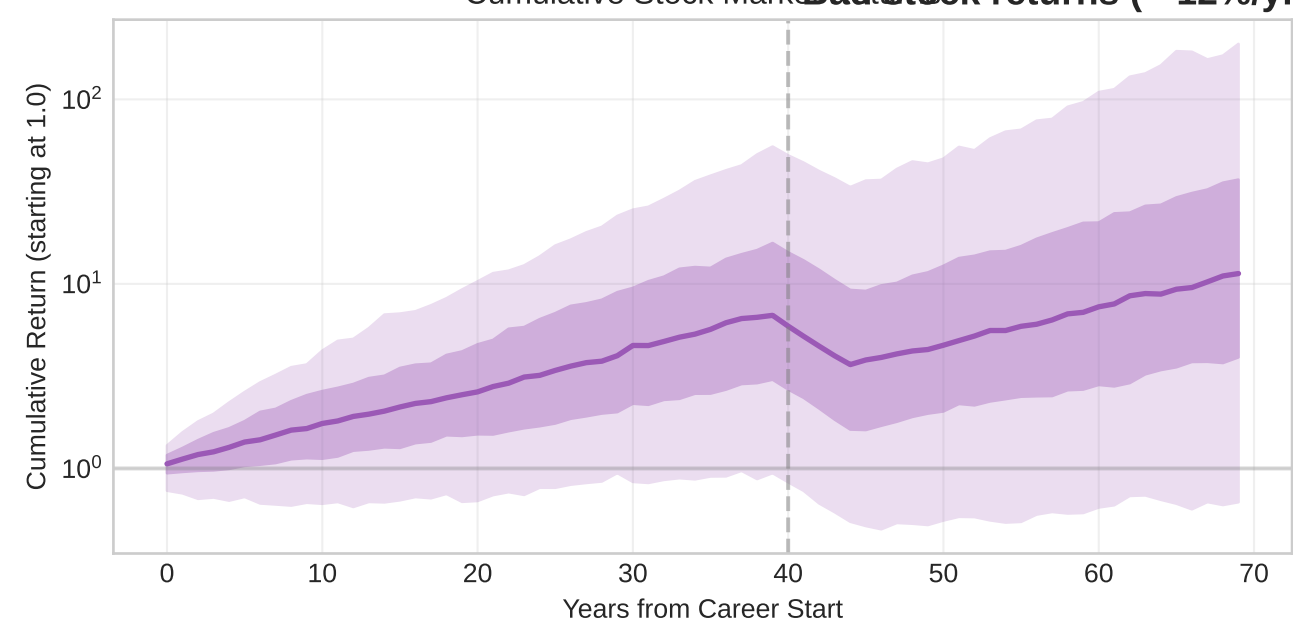


LDI Target Dollar Positions (\$k)



Sequence-of-Returns Risk ( $\beta=0.4$ )

Bad stock returns (~-12%/yr) in first 5 years of retirement



Cumulative Stock Market Interest rate drop (~4% cumulative) in 5 years before retirement Pre-Retirement Rate Shock ( $\beta=0.4$ ) Interest Rate Paths

