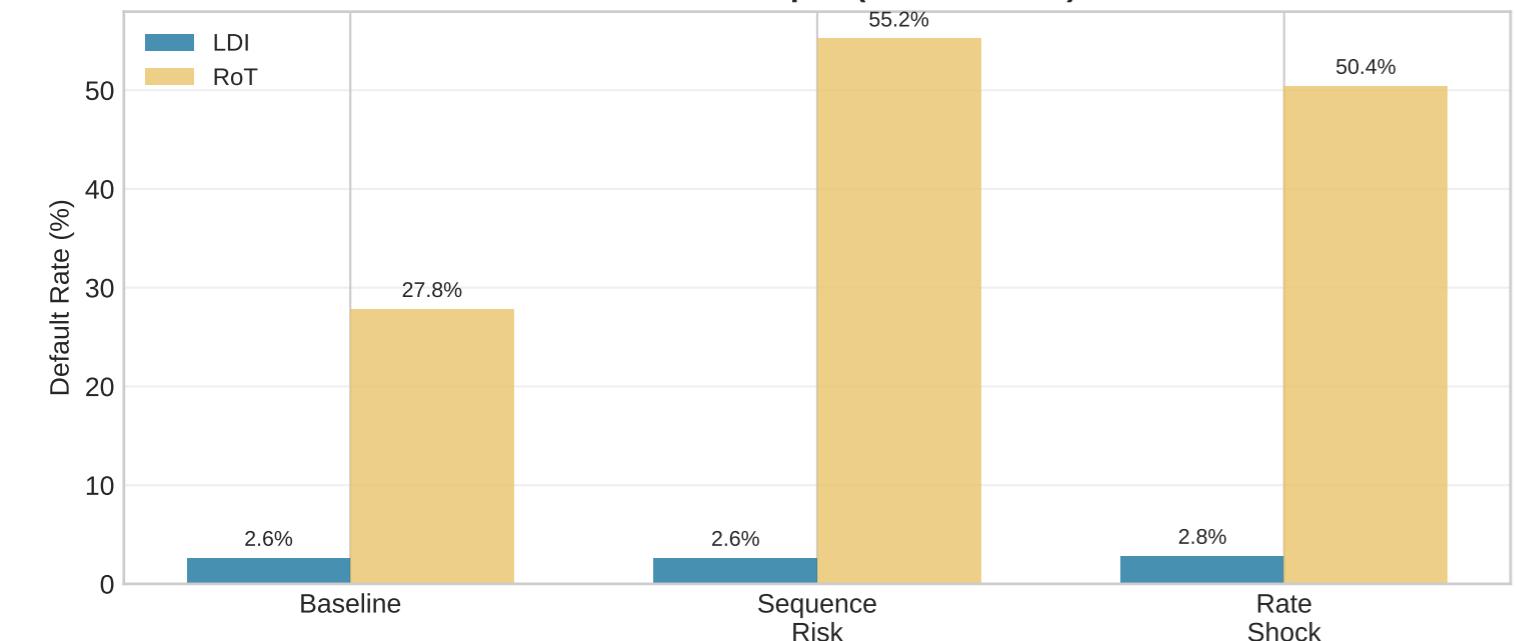
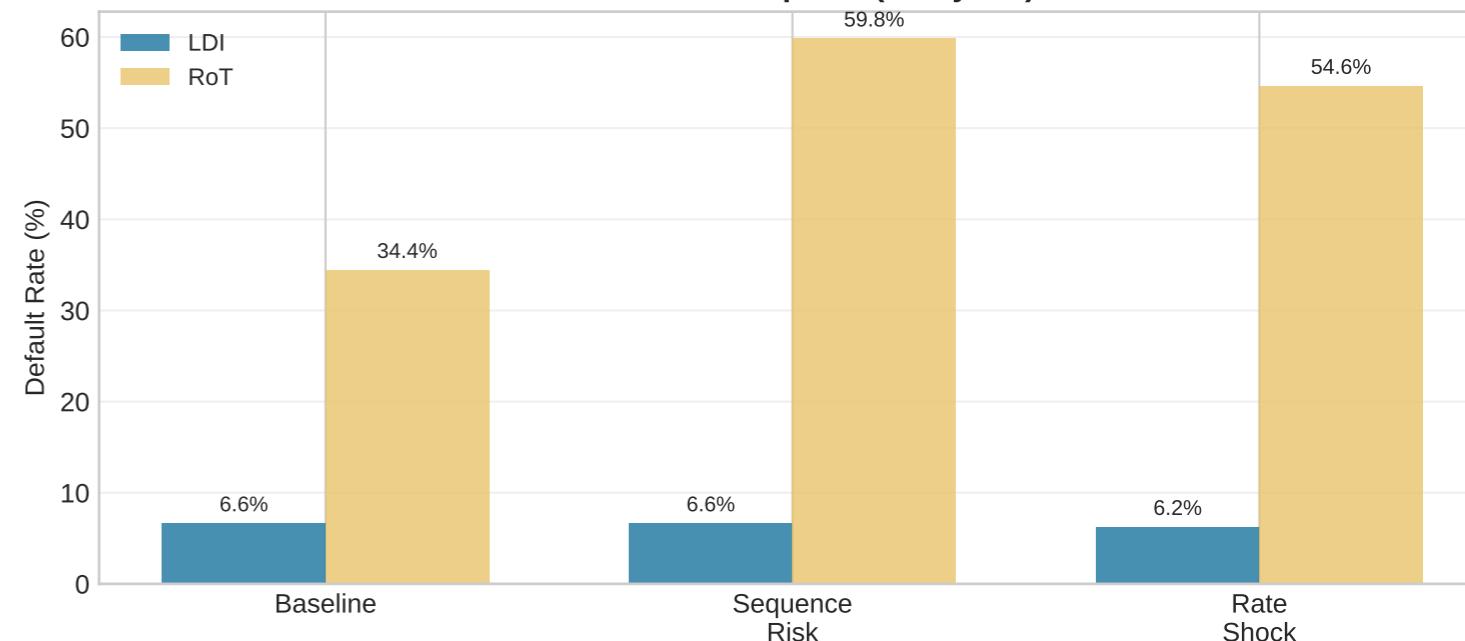


LDI vs Rule-of-Thumb: Strategy Comparison Across Scenarios

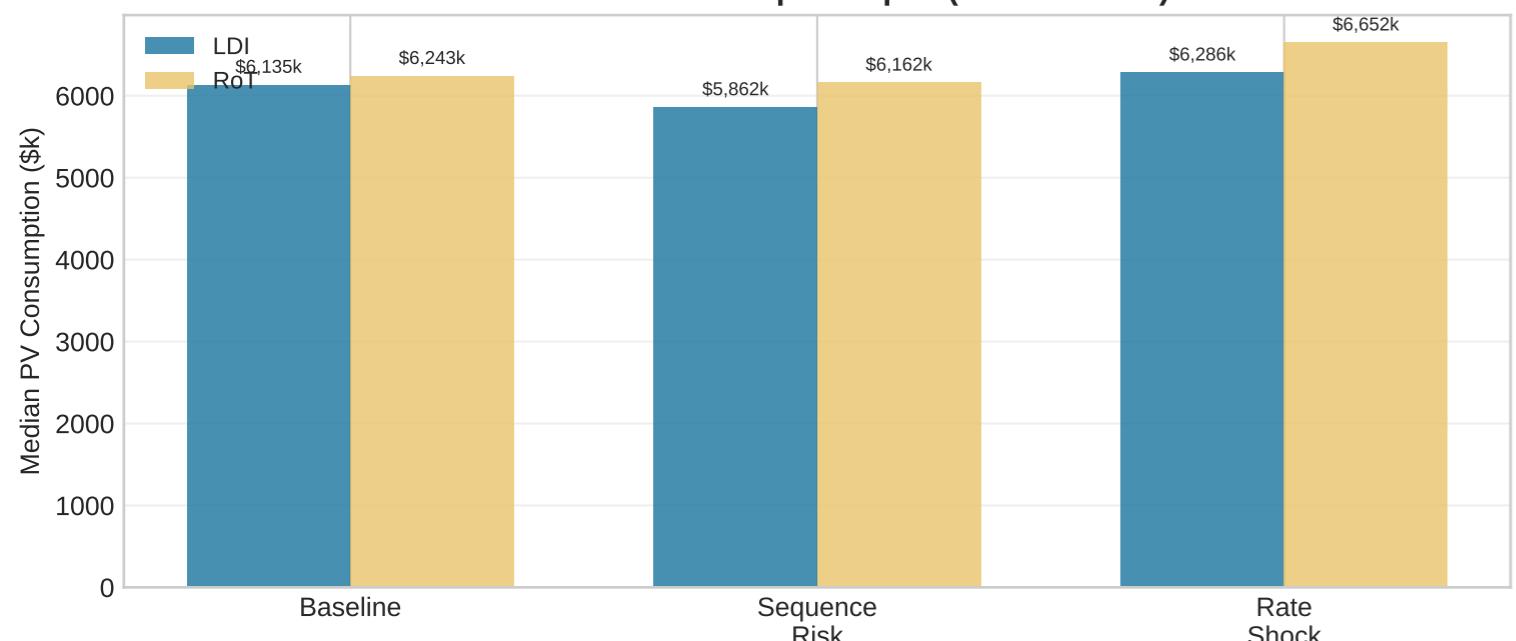
Default Rates - $\beta=0$ (Bond-like HC)



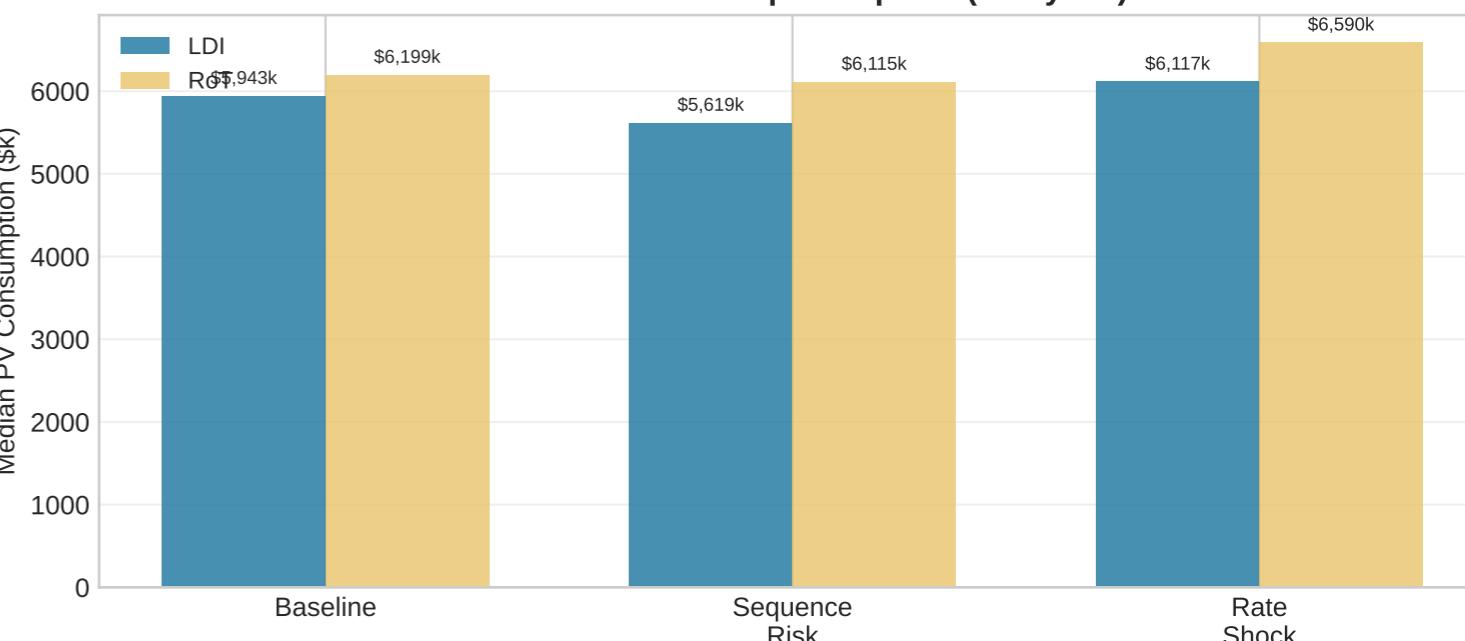
Default Rates - $\beta=0.4$ (Risky HC)



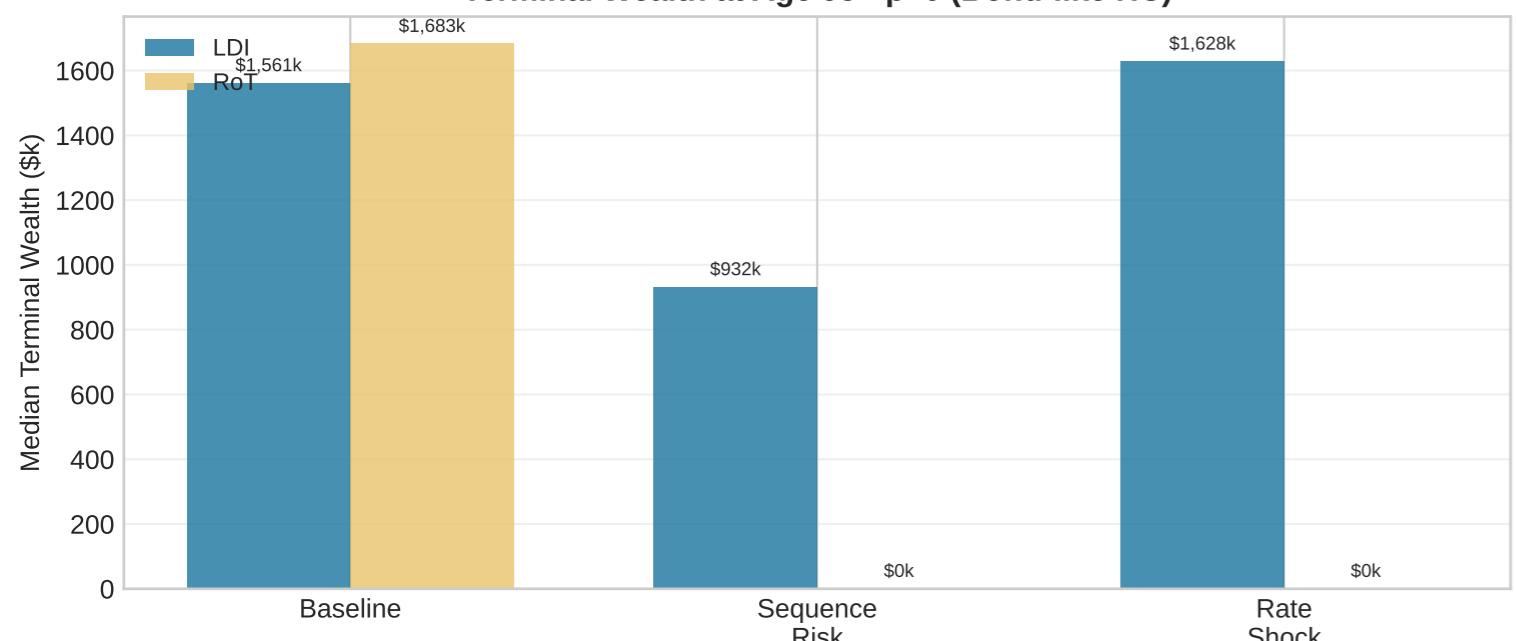
PV Lifetime Consumption - $\beta=0$ (Bond-like HC)



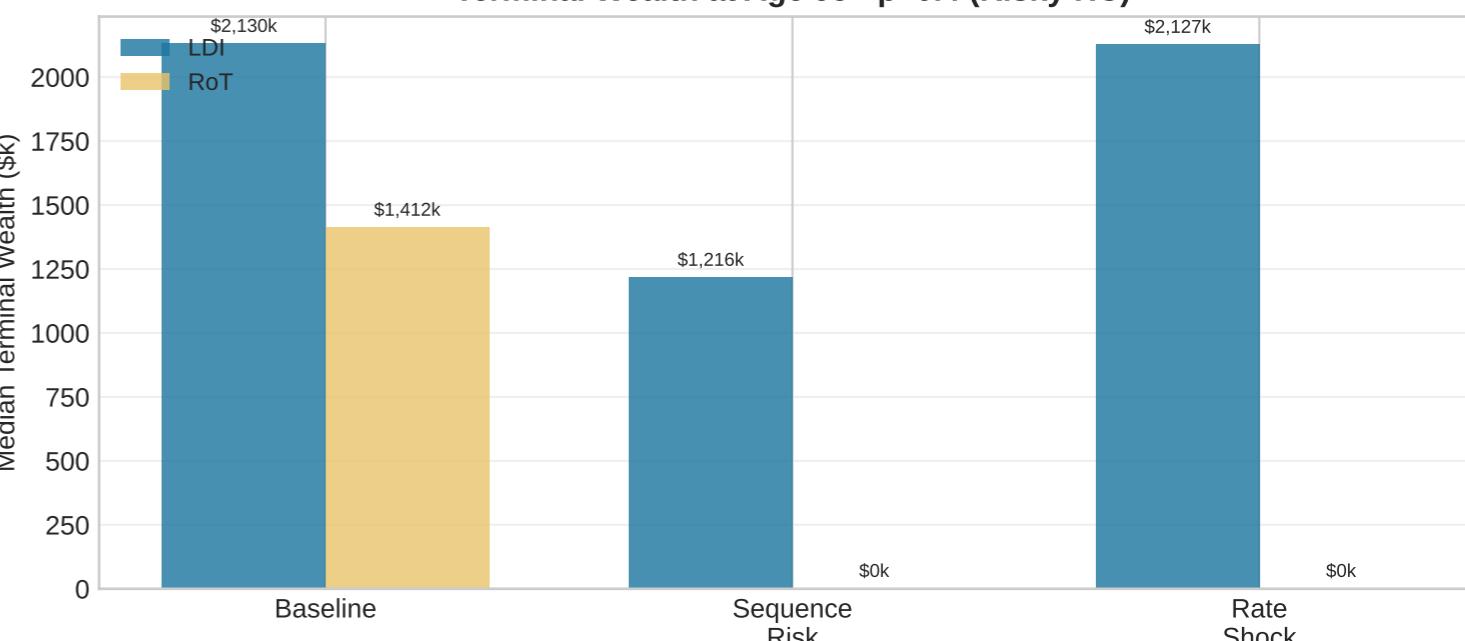
PV Lifetime Consumption - $\beta=0.4$ (Risky HC)



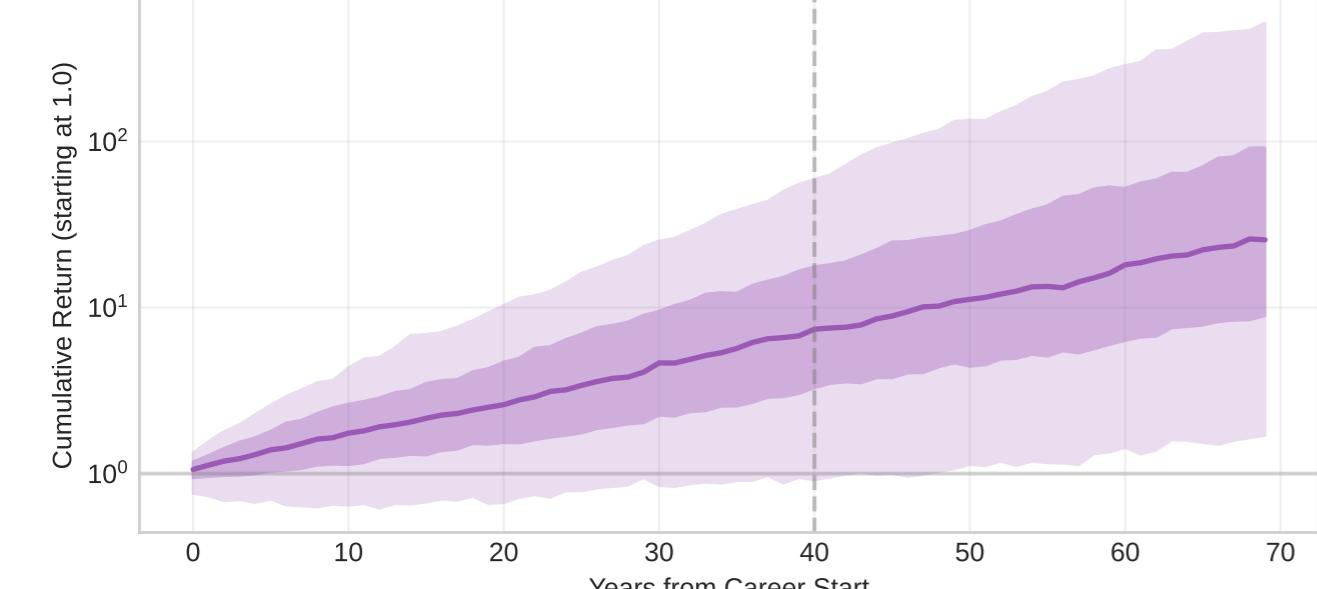
Terminal Wealth at Age 95 - $\beta=0$ (Bond-like HC)



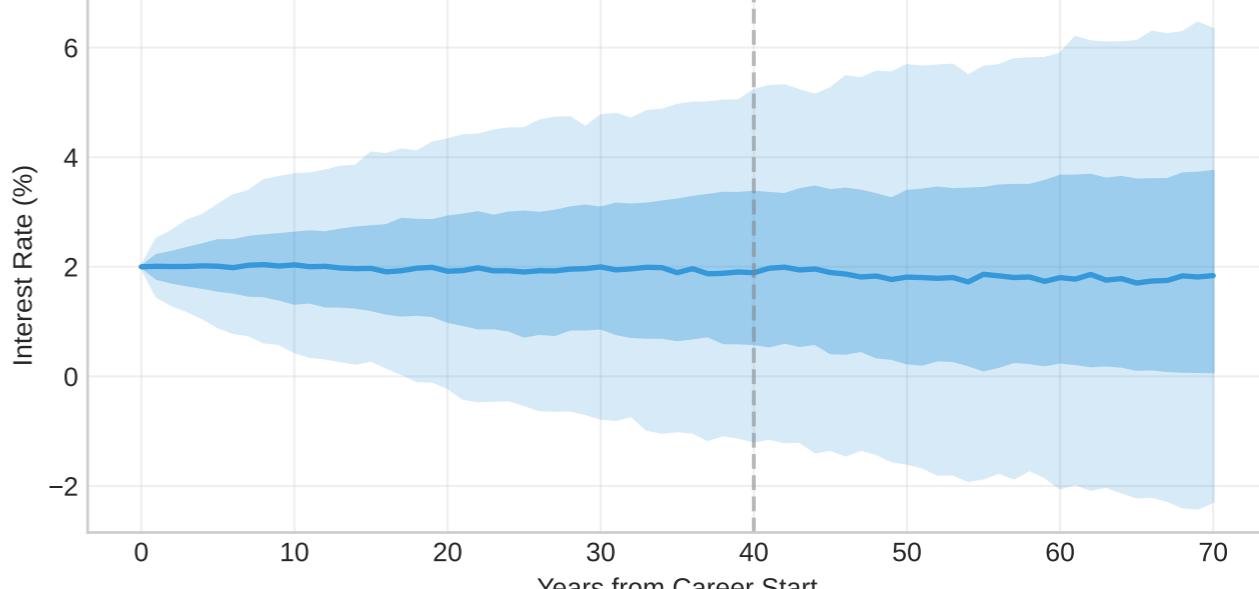
Terminal Wealth at Age 95 - $\beta=0.4$ (Risky HC)



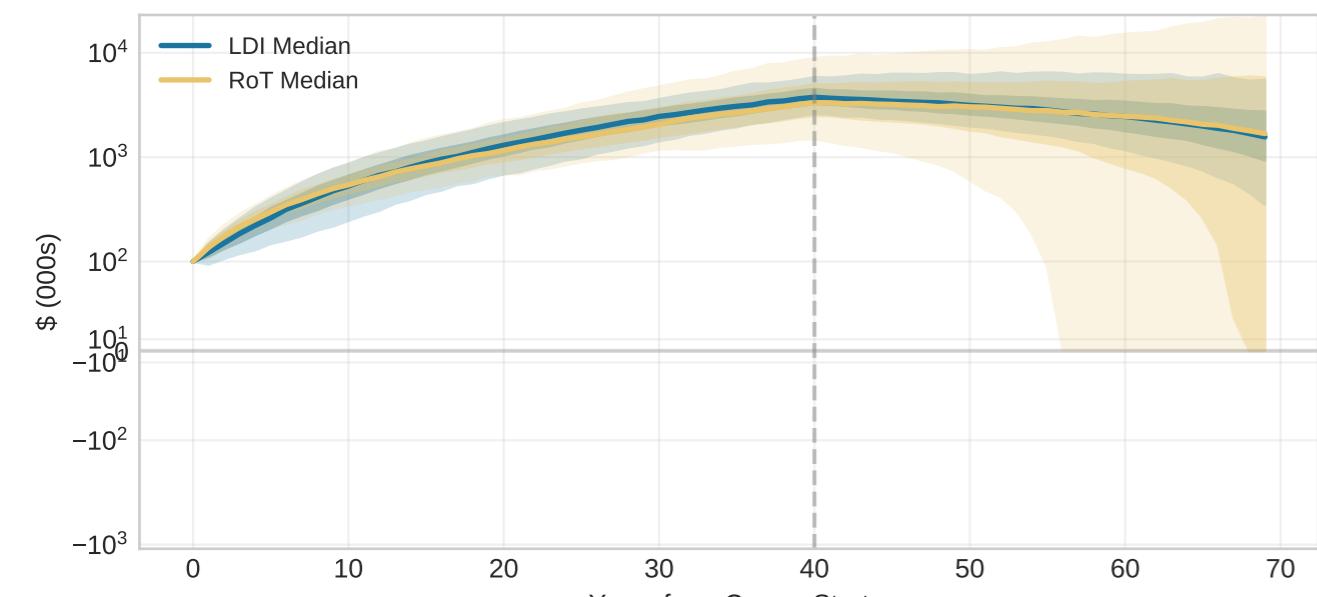
**Baseline: Normal Monte Carlo ($\beta=0$, Bond-like HC)
Standard random shocks - no scenario manipulation**



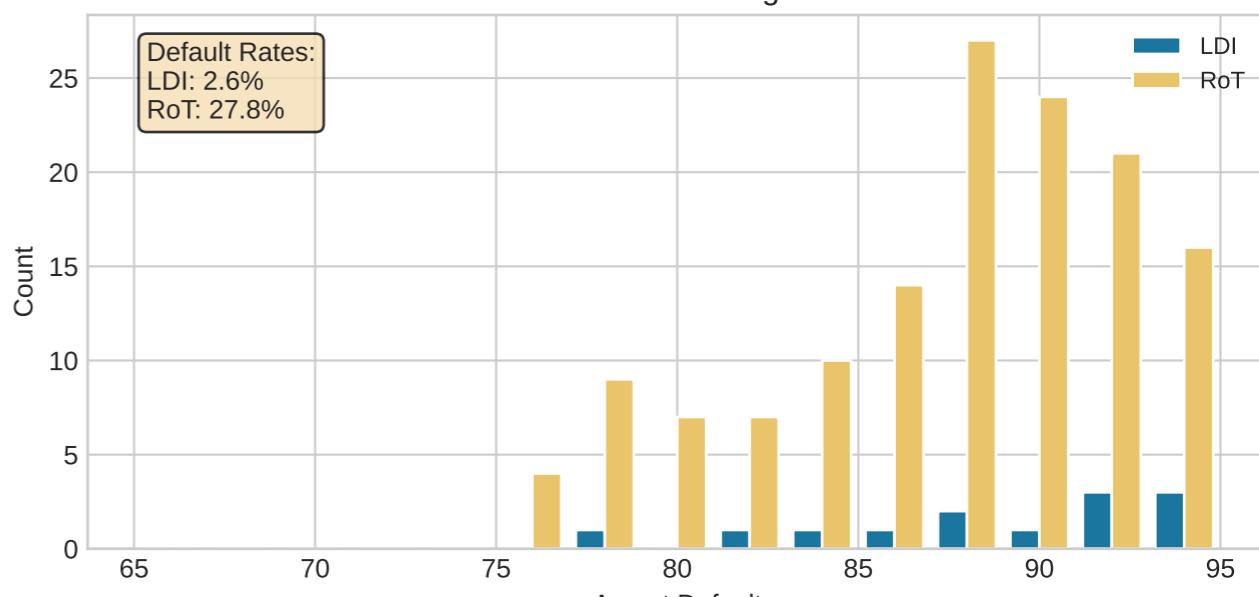
Interest Rate Paths



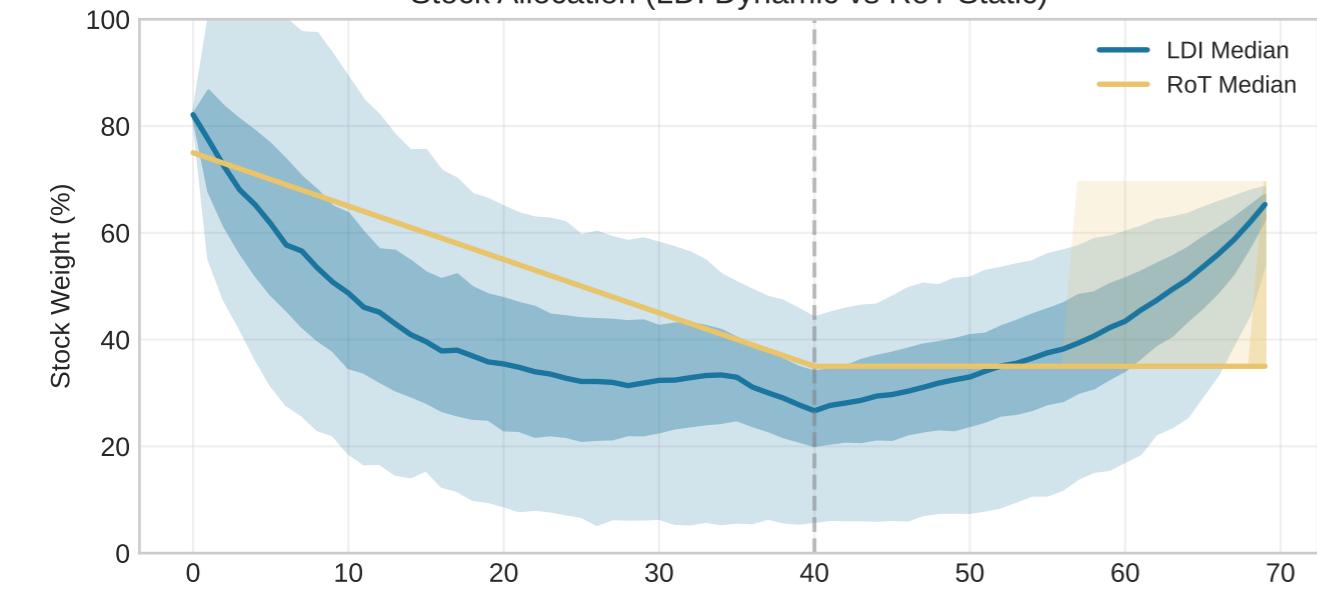
Financial Wealth



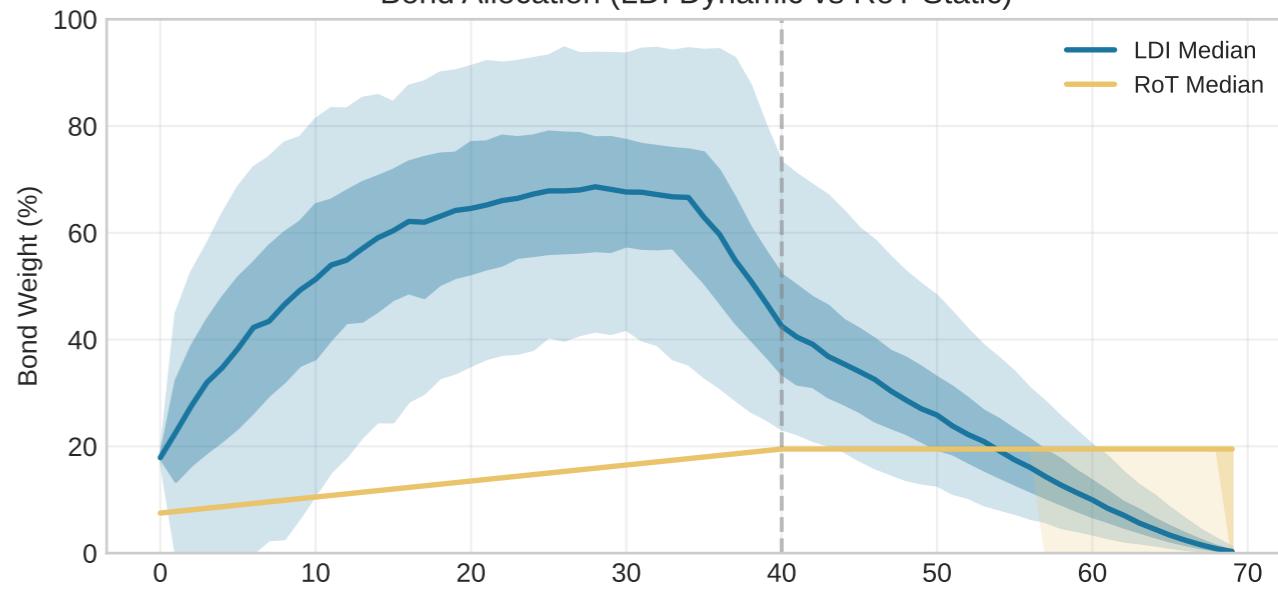
Default Timing



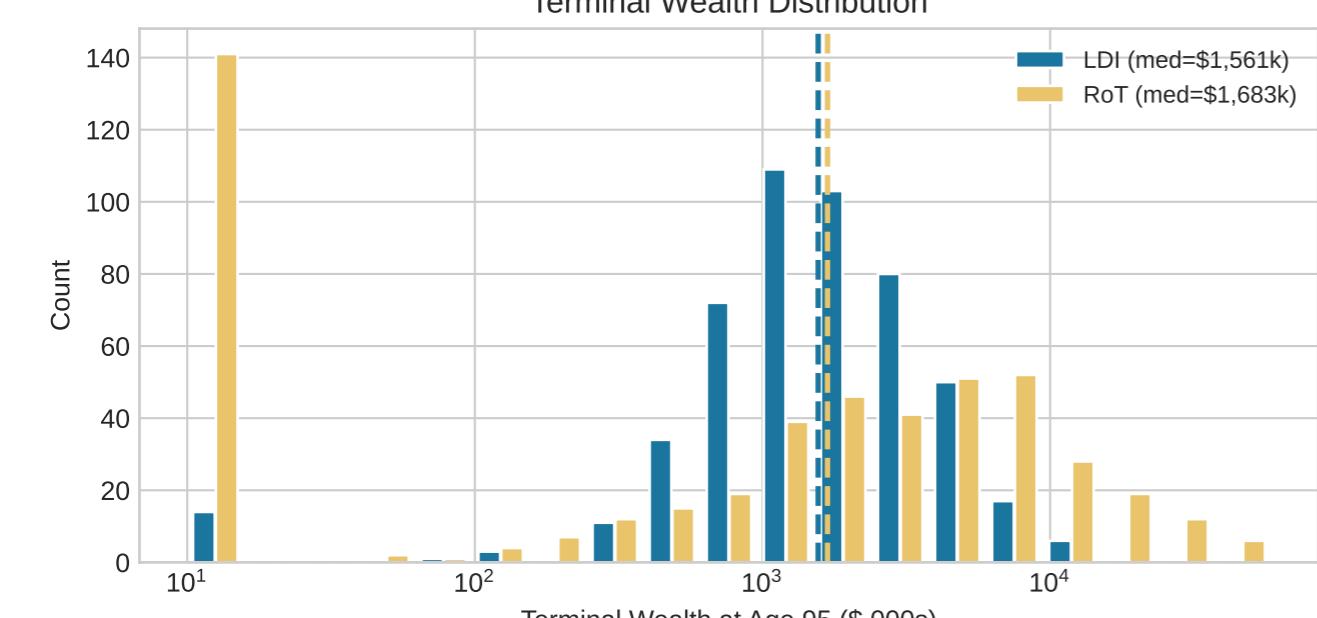
Stock Allocation (LDI Dynamic vs RoT Static)



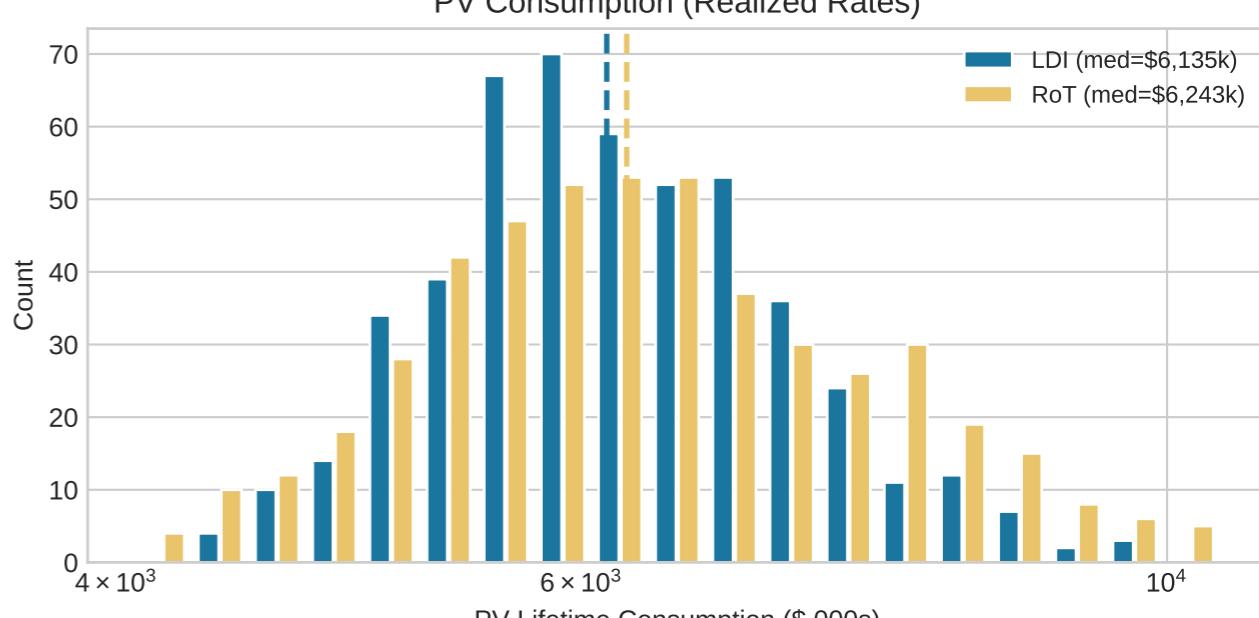
Bond Allocation (LDI Dynamic vs RoT Static)



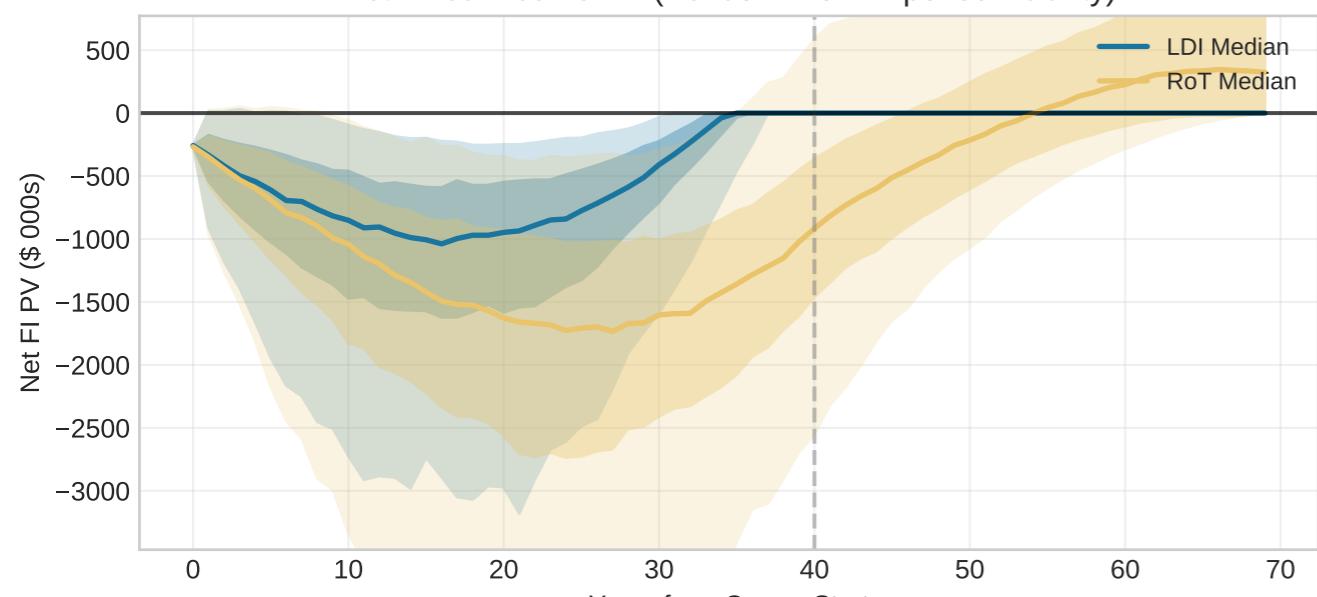
Terminal Wealth Distribution



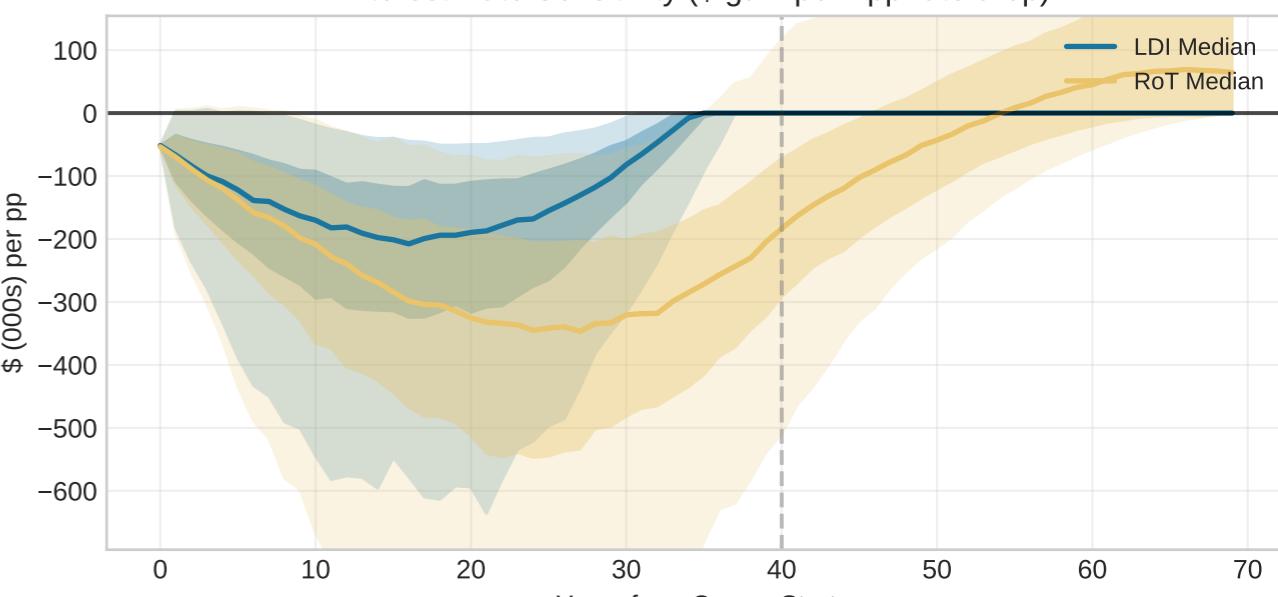
PV Consumption (Realized Rates)



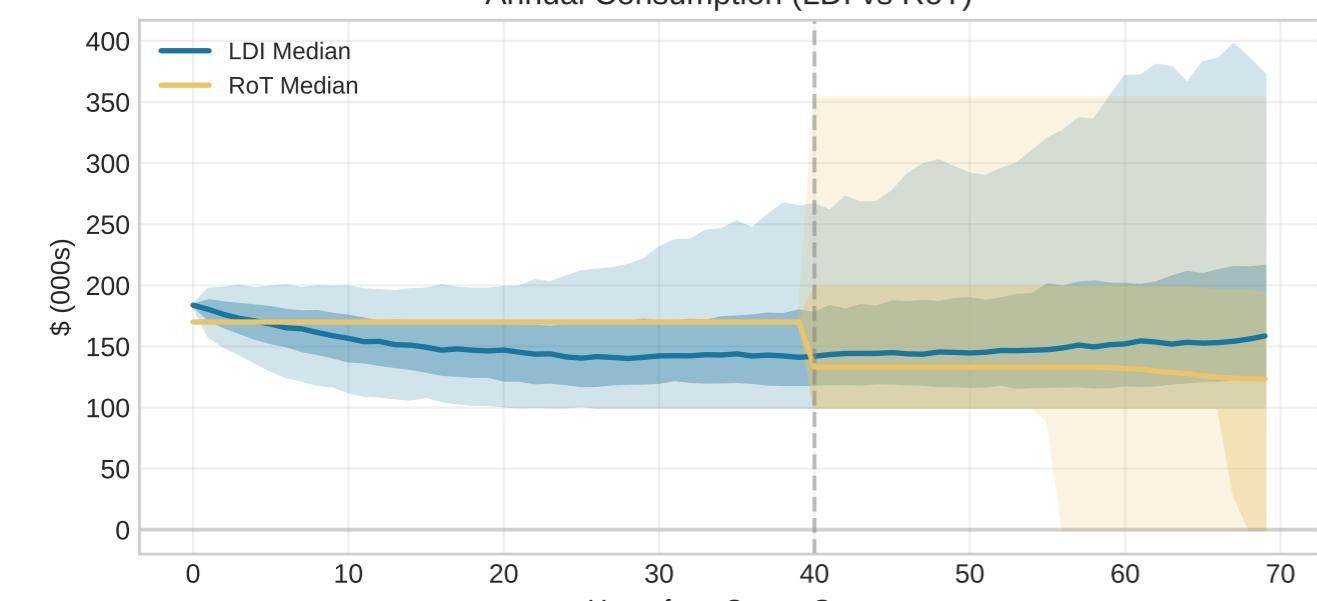
Net Fixed Income PV (Bonds + HC - Expense Liability)



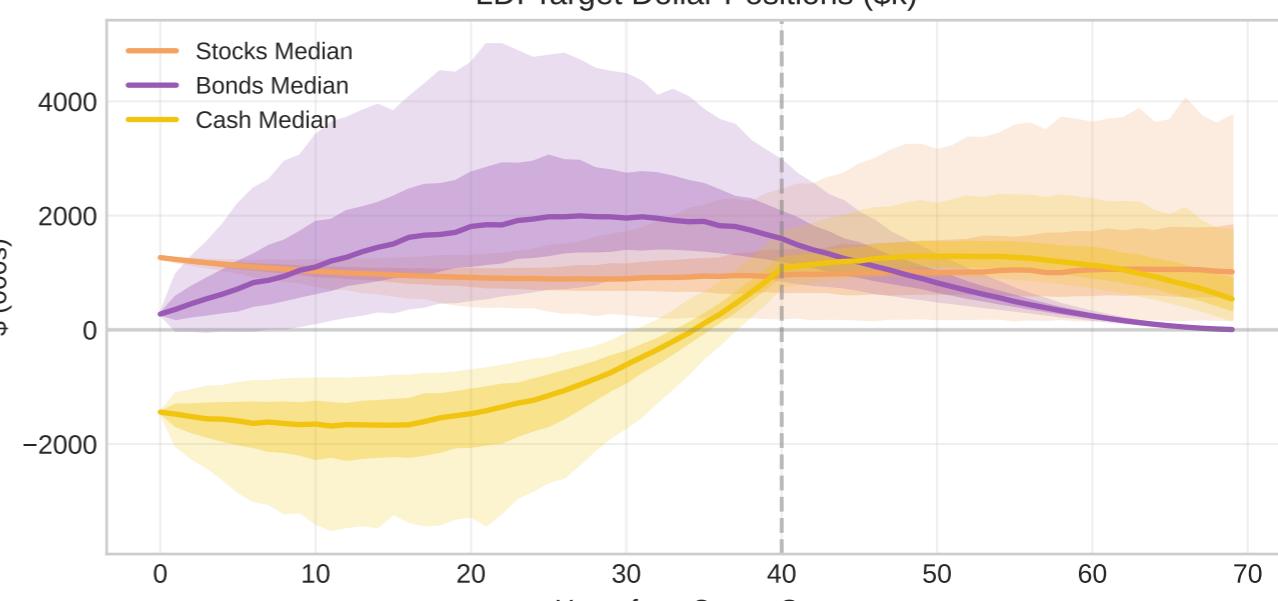
Interest Rate Sensitivity (\$ gain per 1pp rate drop)



Annual Consumption (LDI vs RoT)

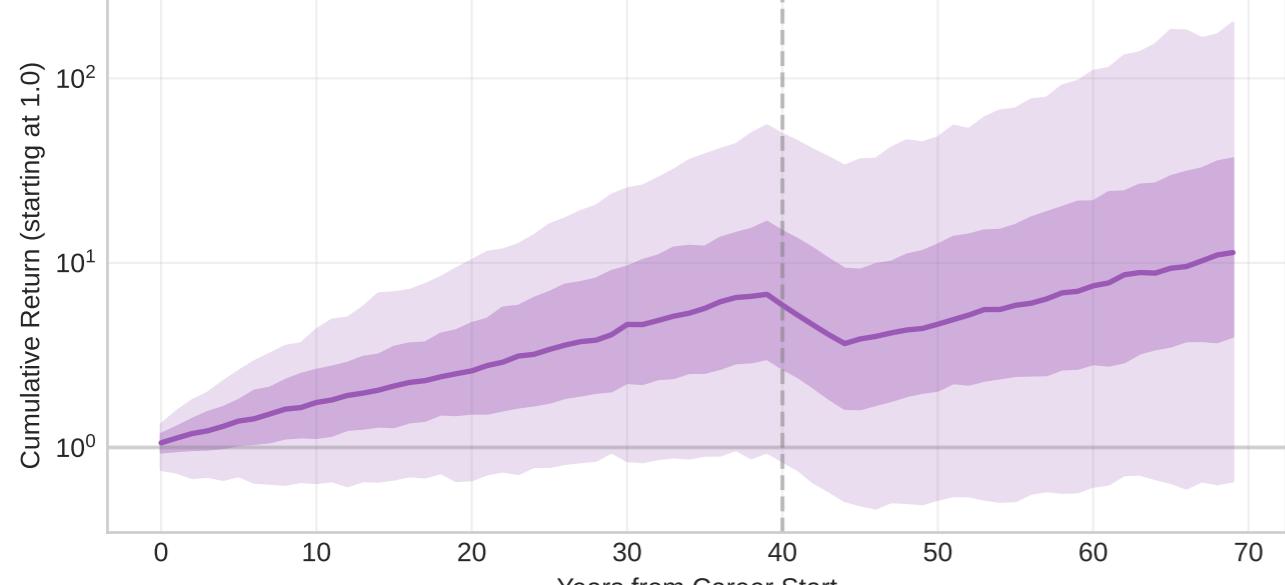


LDI Target Dollar Positions (\$k)

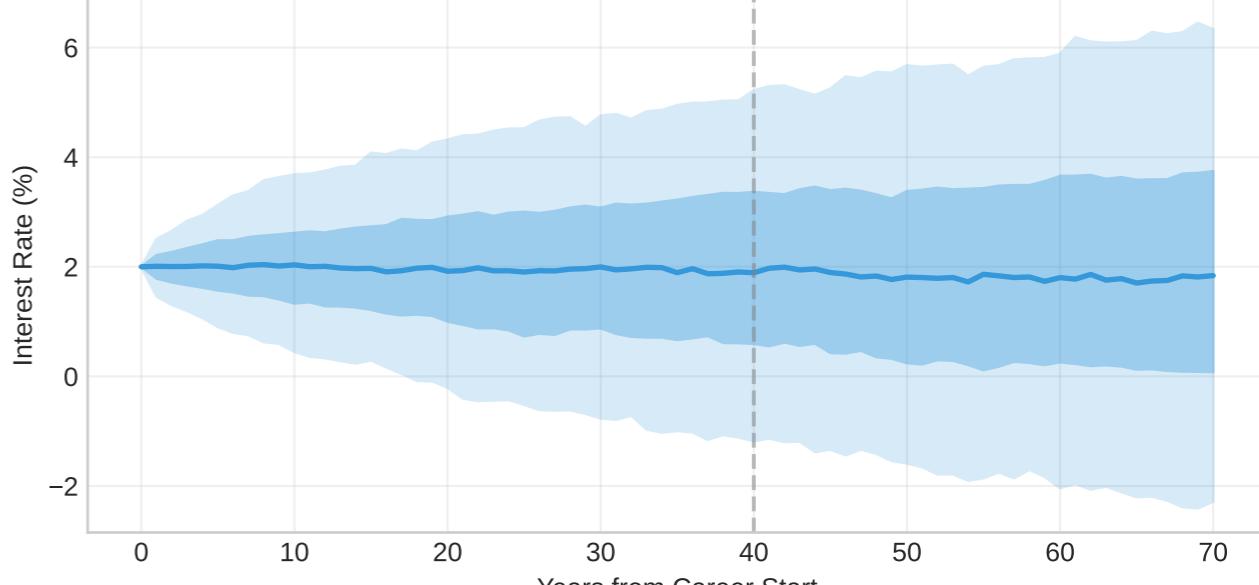


Sequence-of-Returns Risk ($\beta=0$, Bond-like HC)

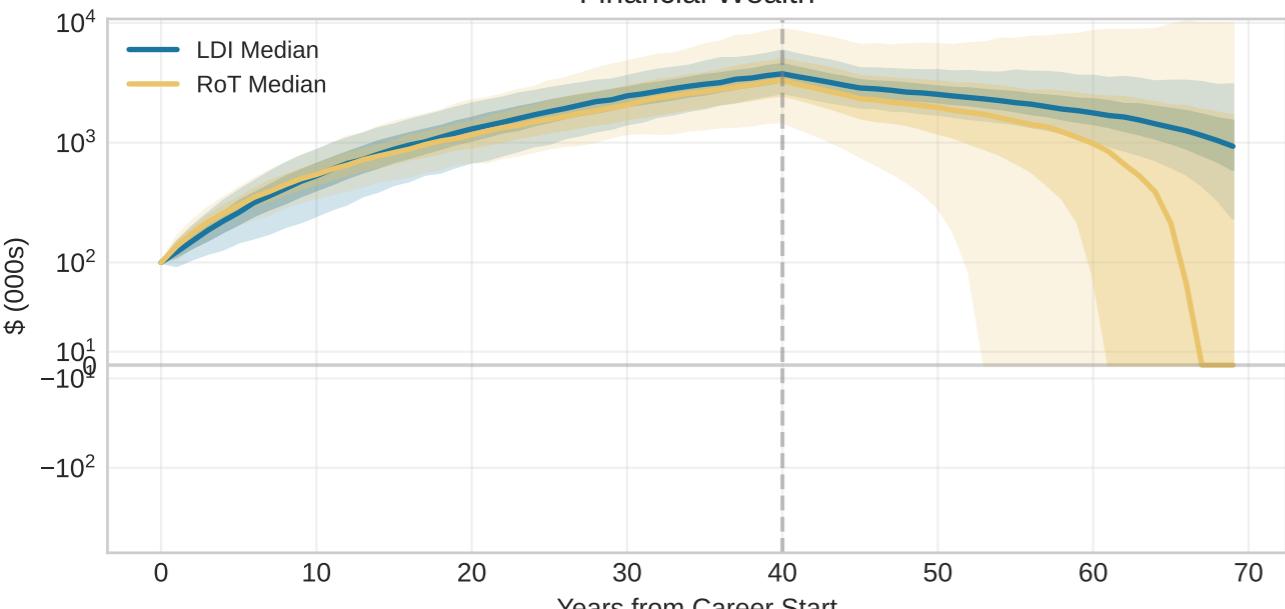
Cumulative Stock Market Returns (~-12%/yr) in first 5 years of retirement



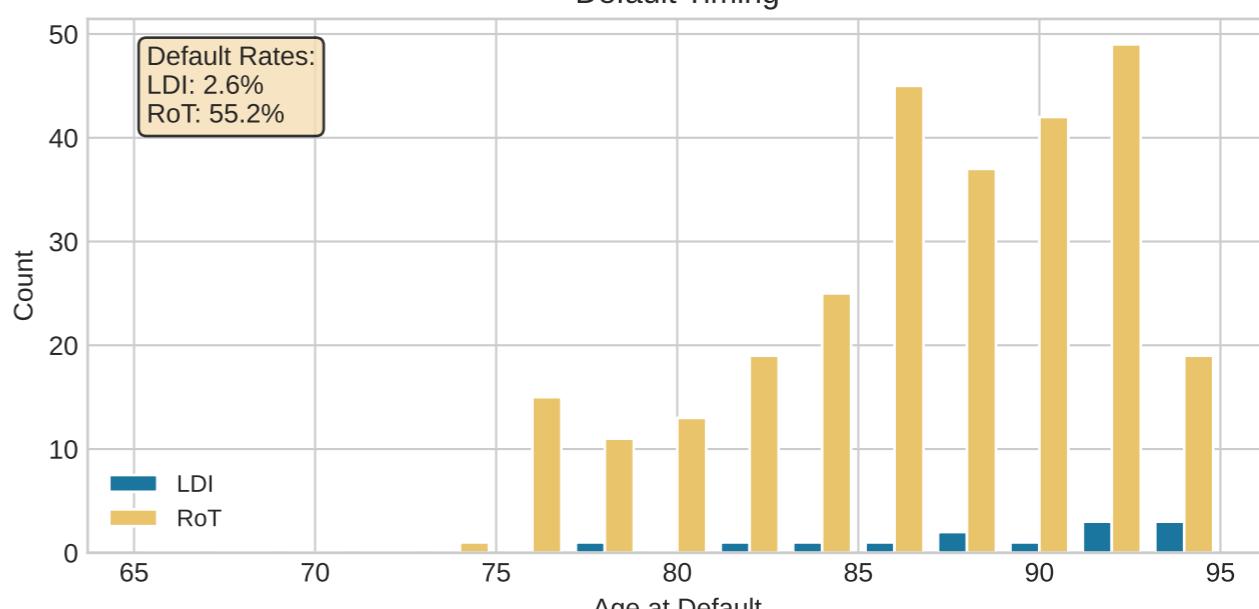
Interest Rate Paths



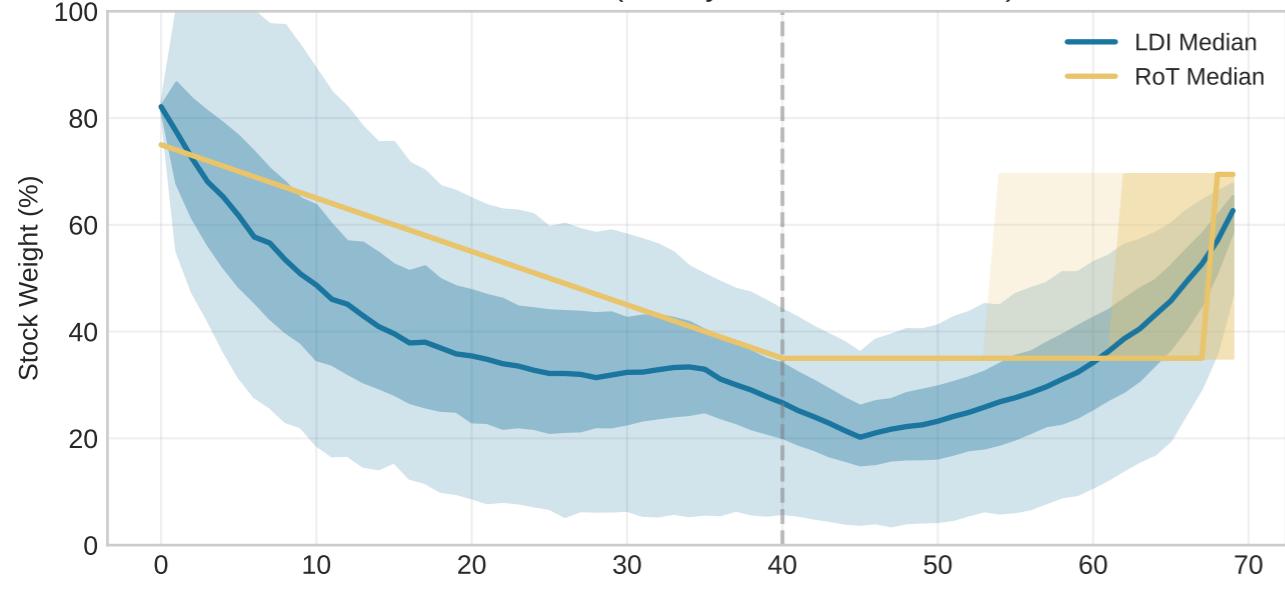
Financial Wealth



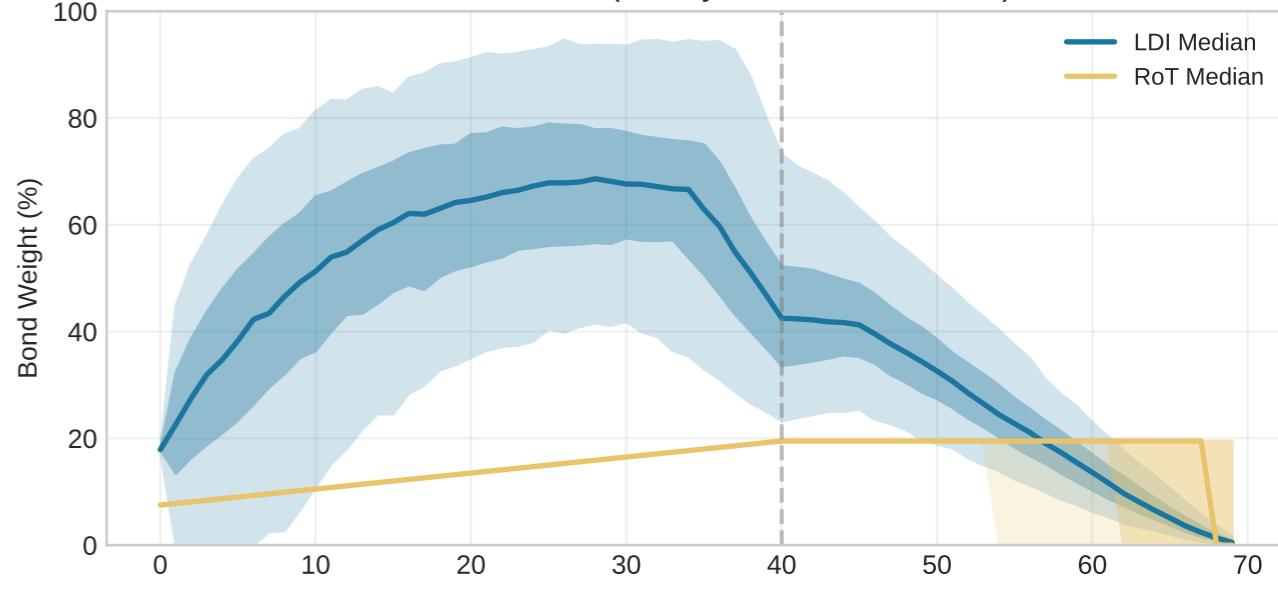
Default Timing



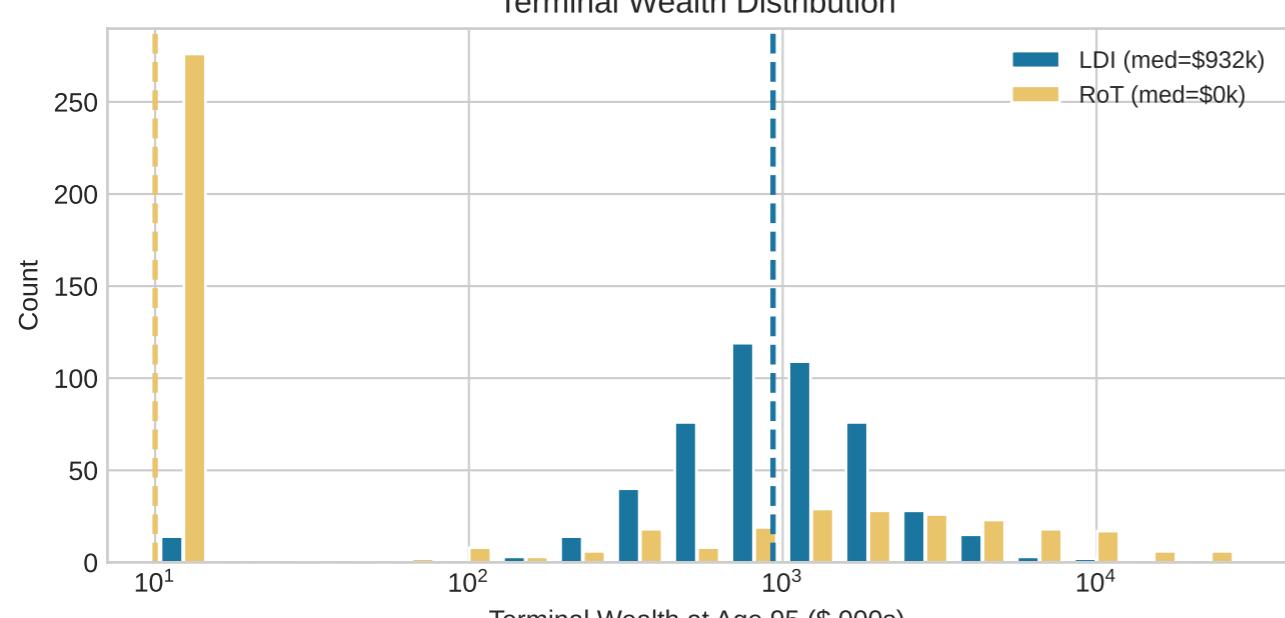
Stock Allocation (LDI Dynamic vs RoT Static)



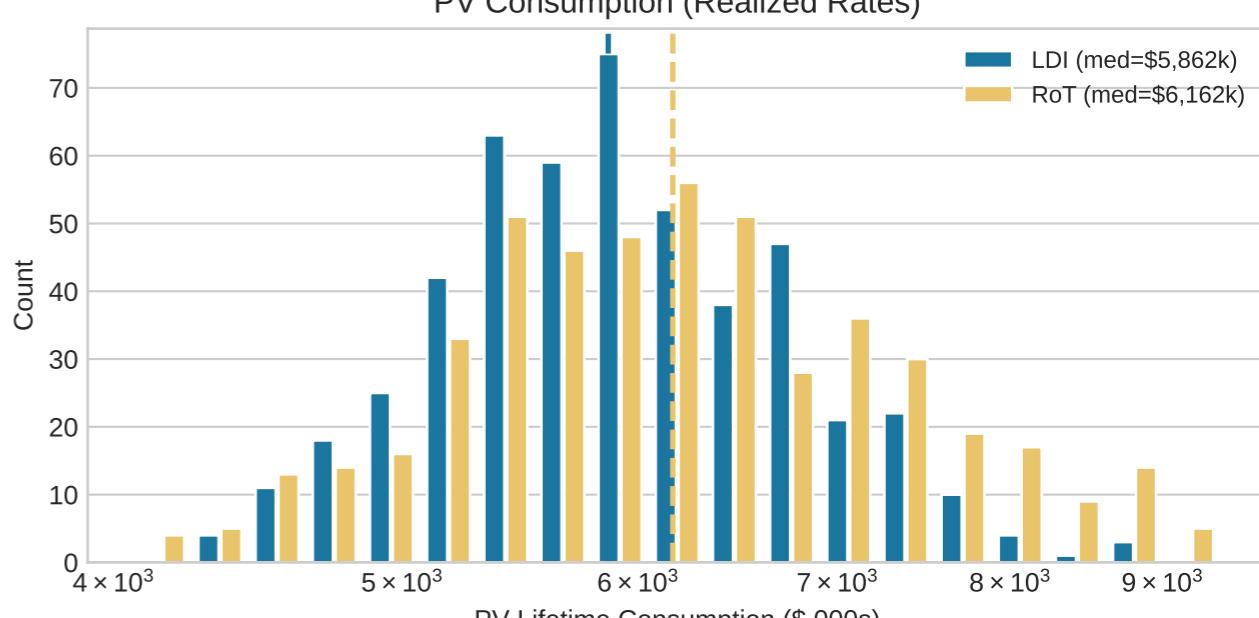
Bond Allocation (LDI Dynamic vs RoT Static)



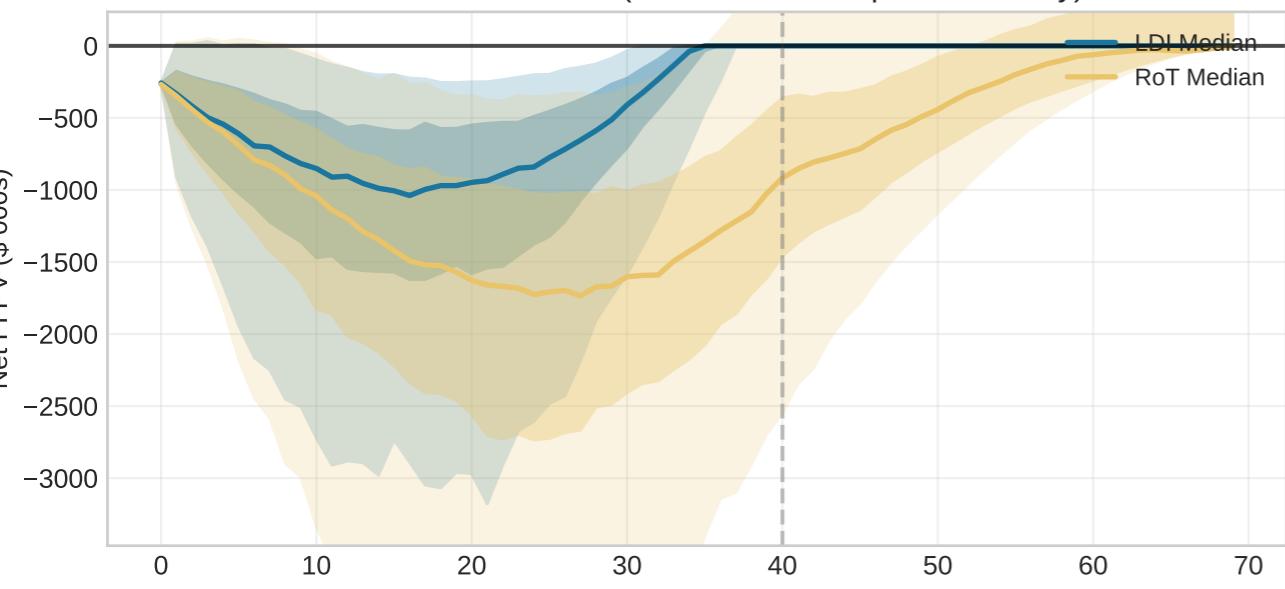
Terminal Wealth Distribution



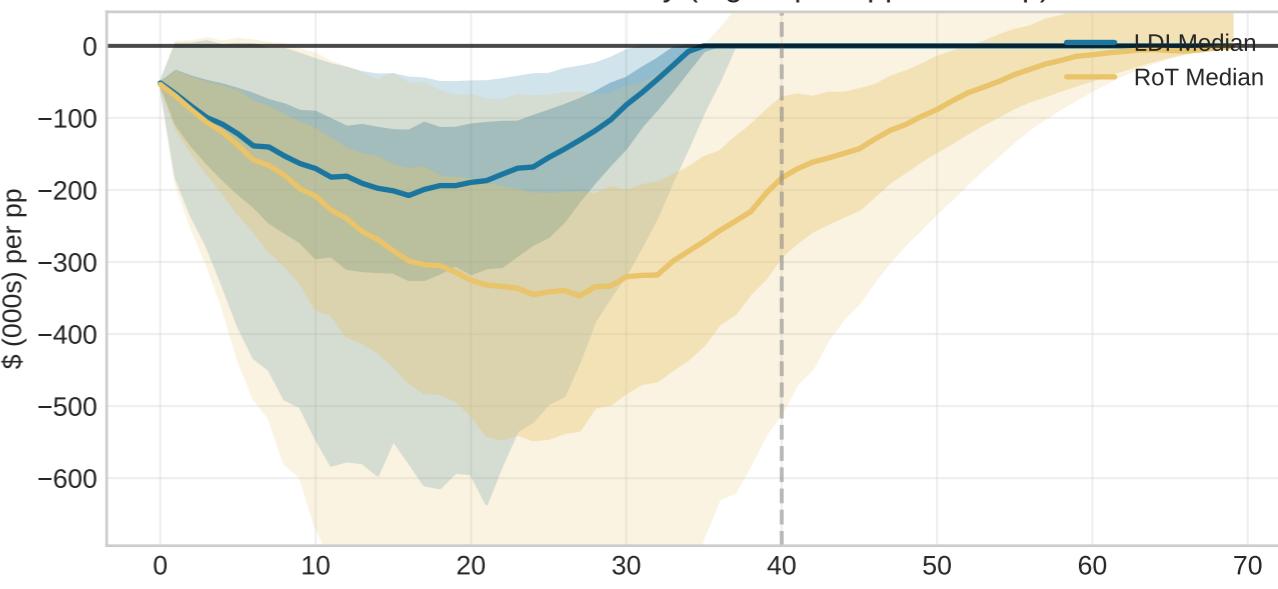
PV Consumption (Realized Rates)



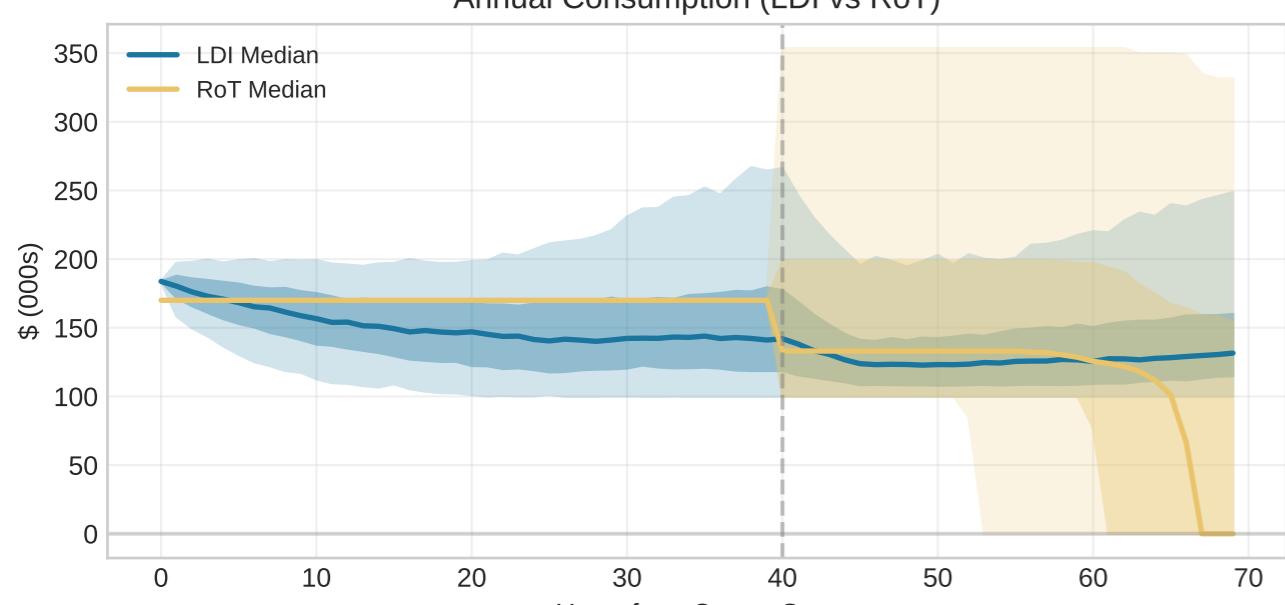
Net Fixed Income PV (Bonds + HC - Expense Liability)



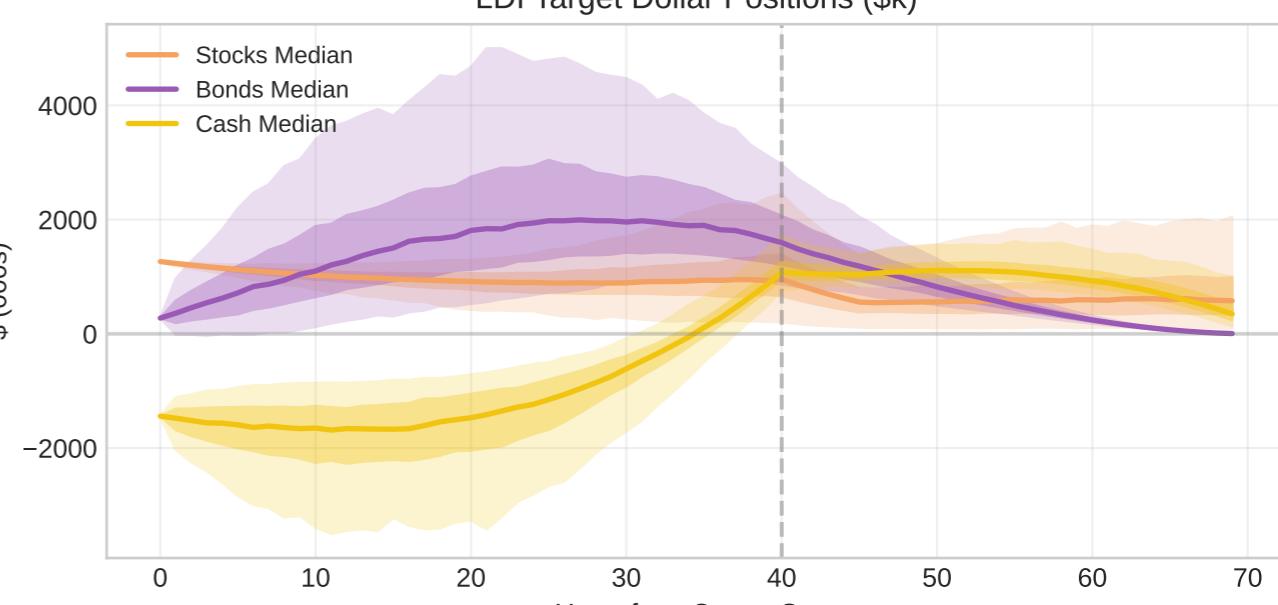
Interest Rate Sensitivity (\$ gain per 1pp rate drop)

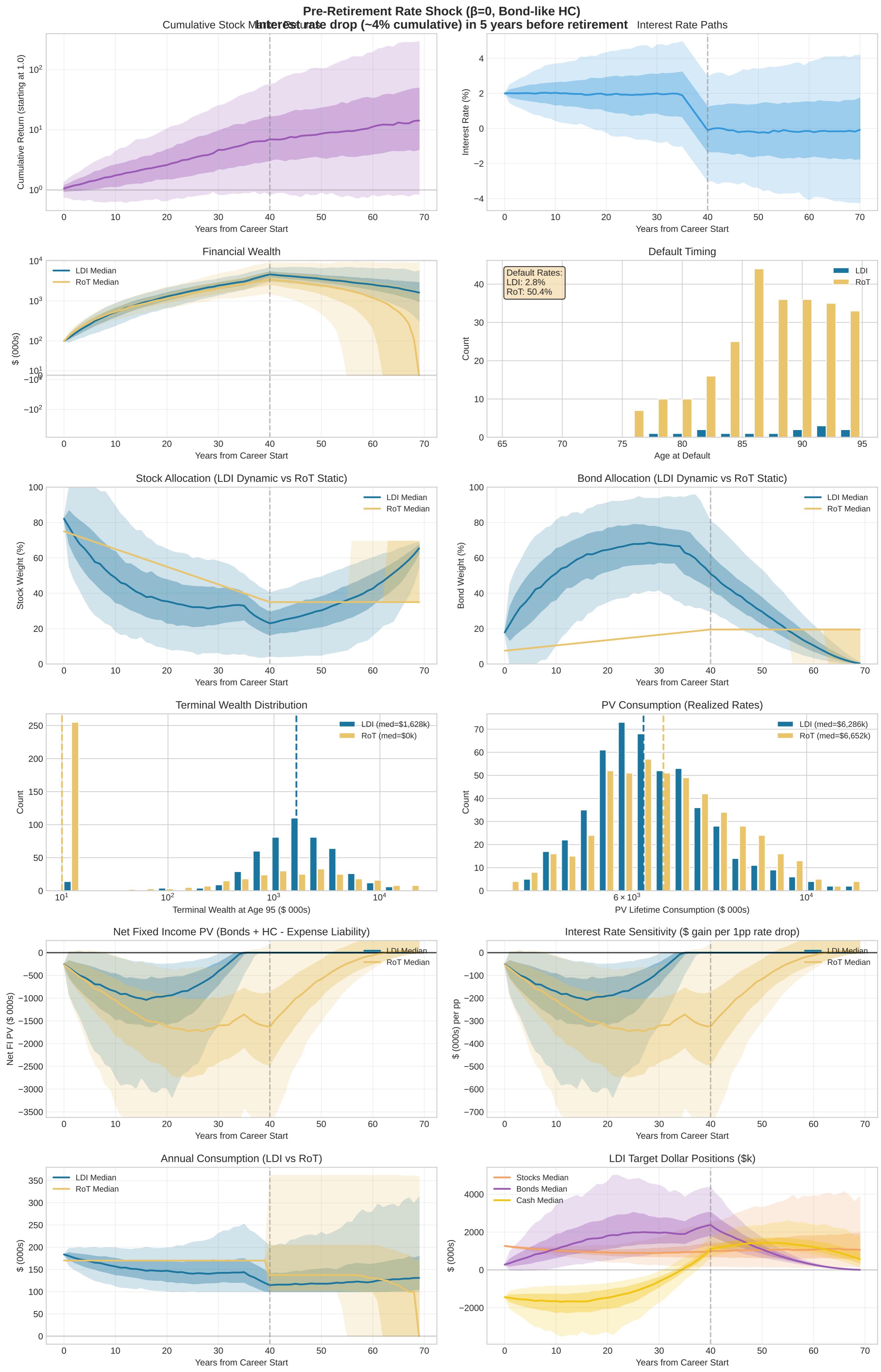


Annual Consumption (LDI vs RoT)

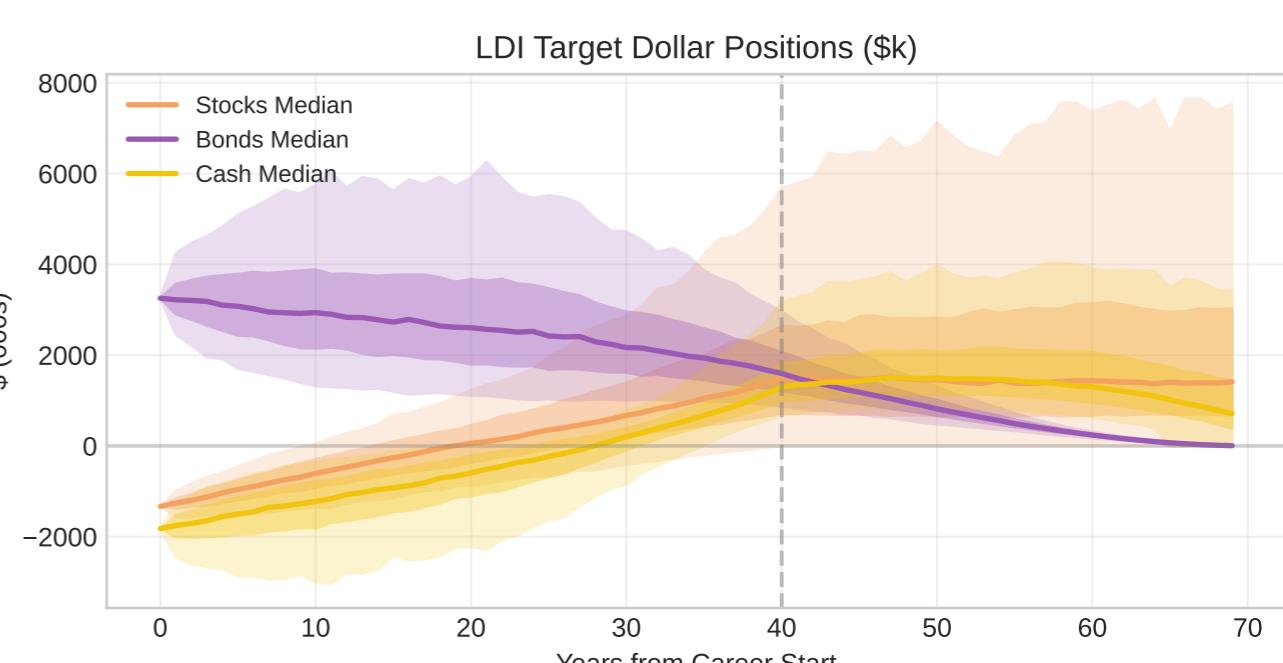
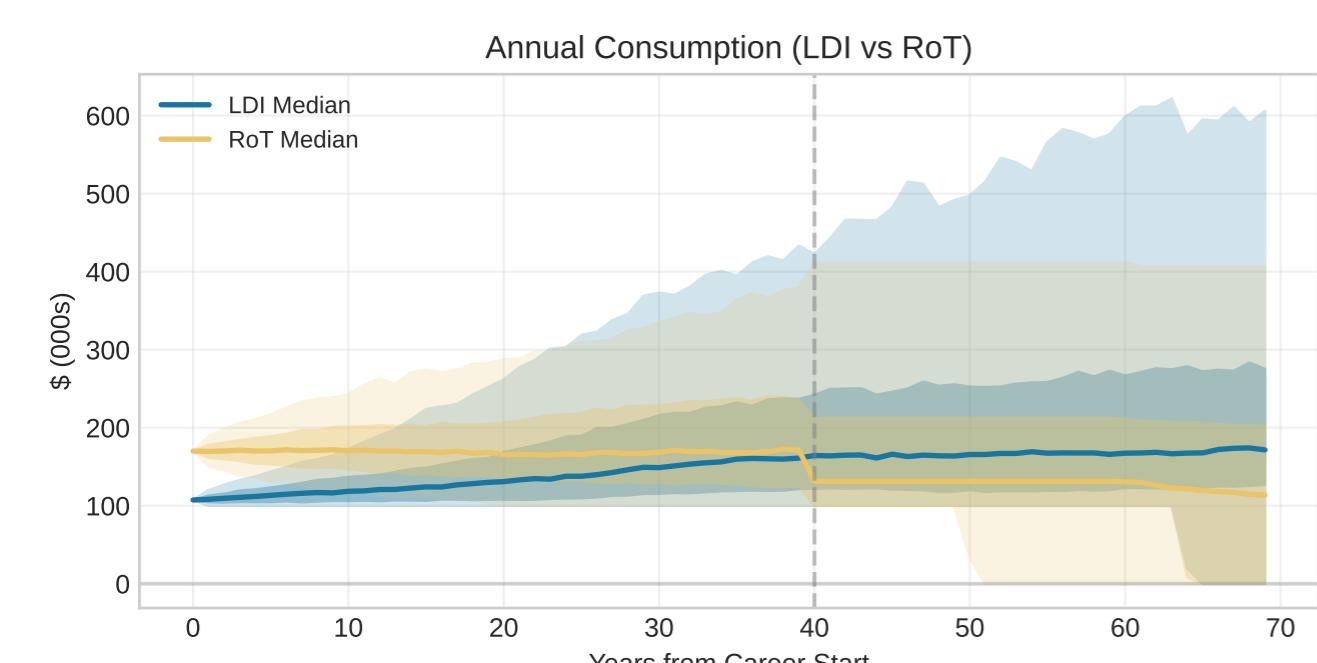
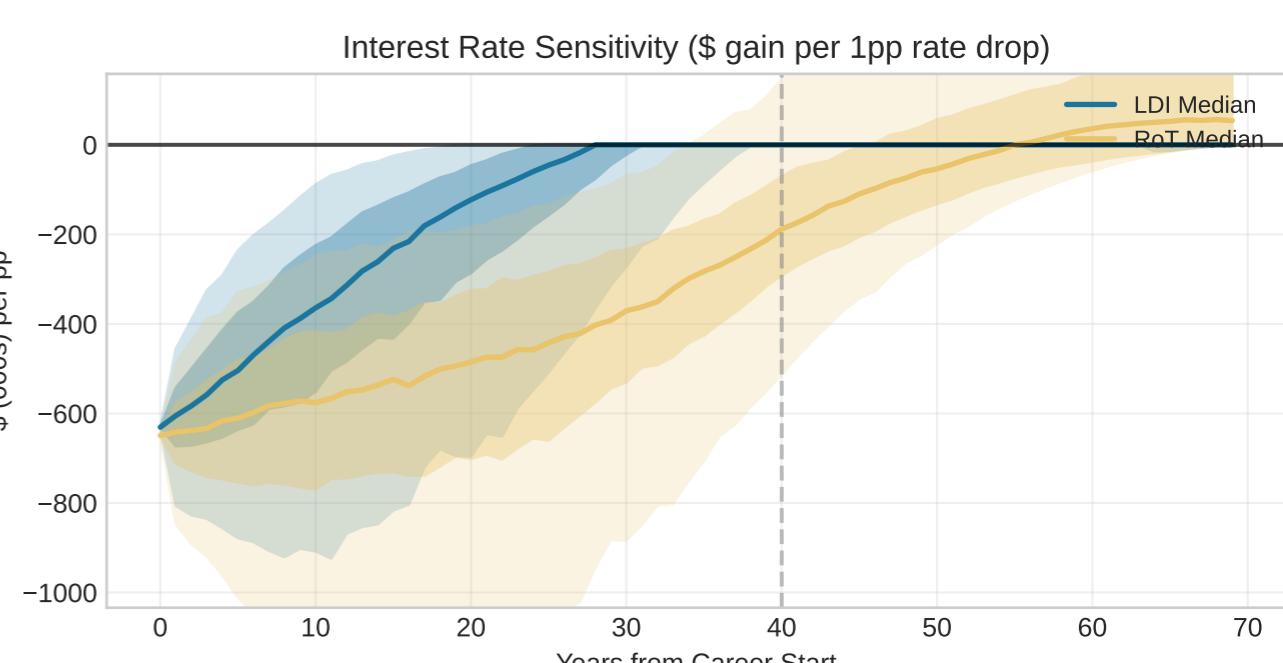
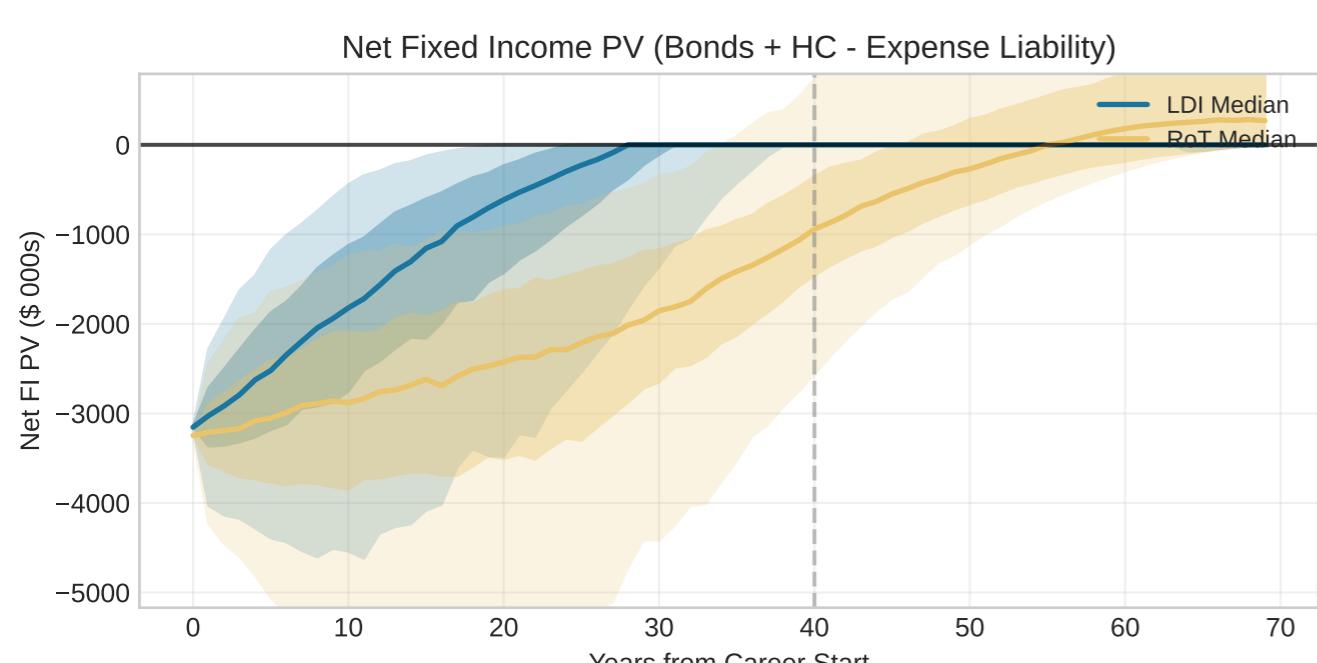
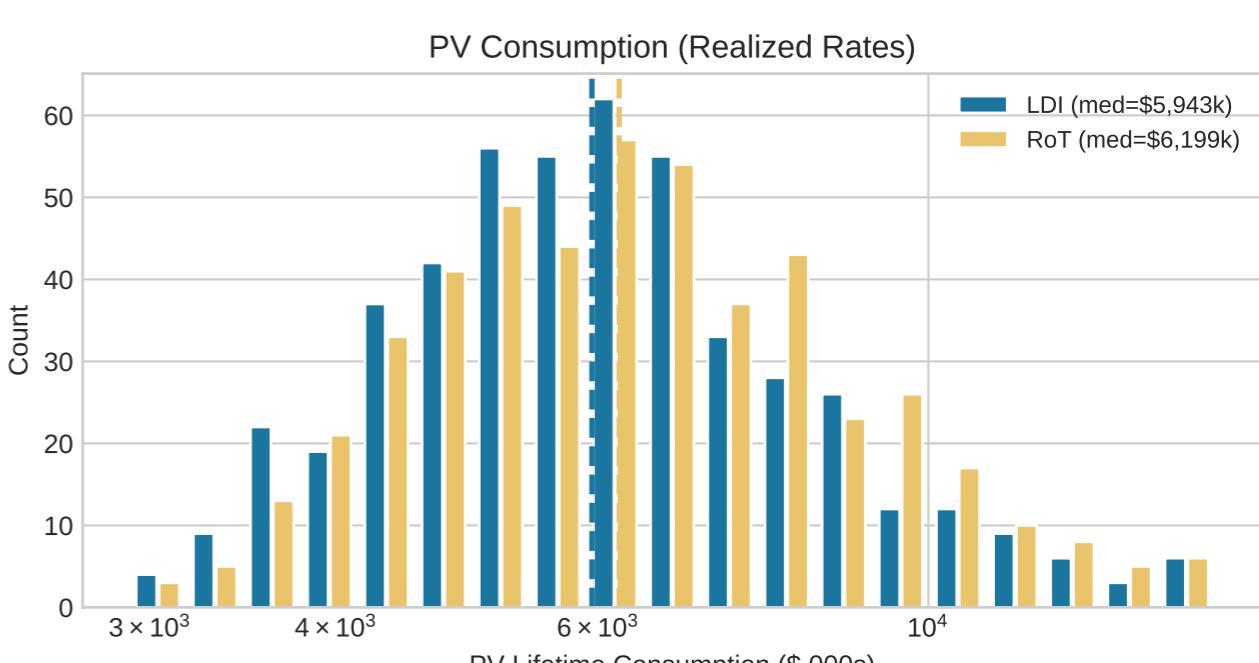
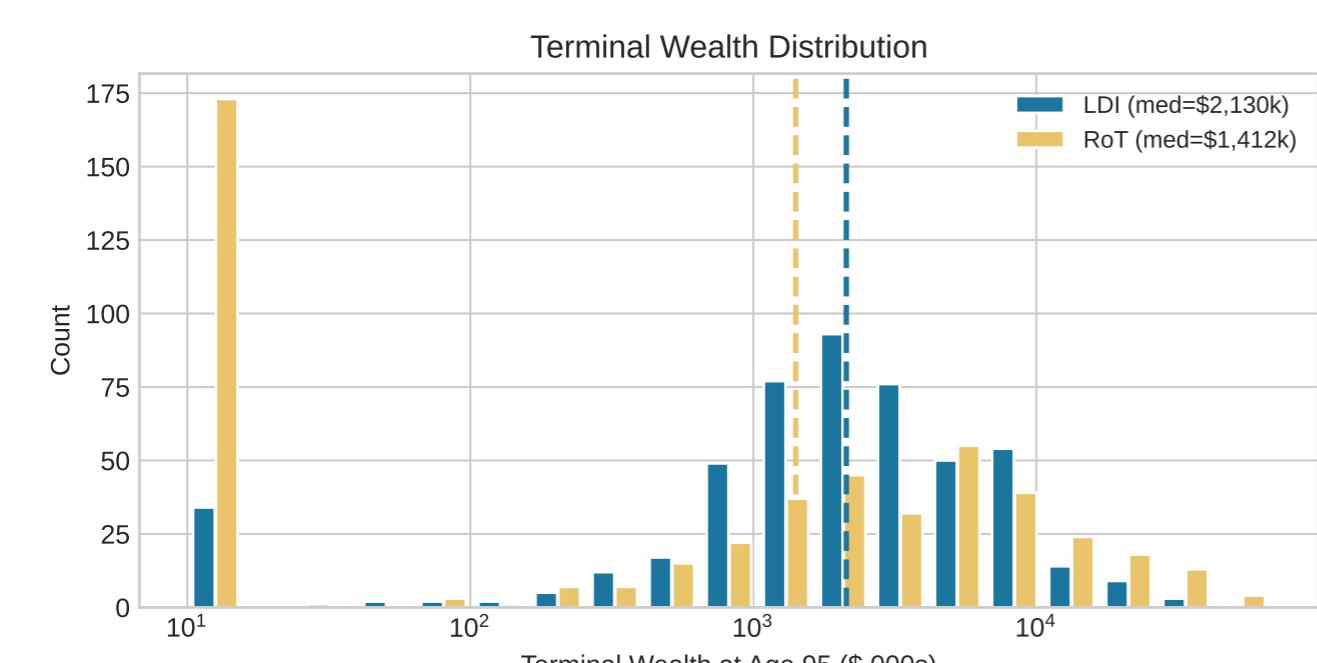
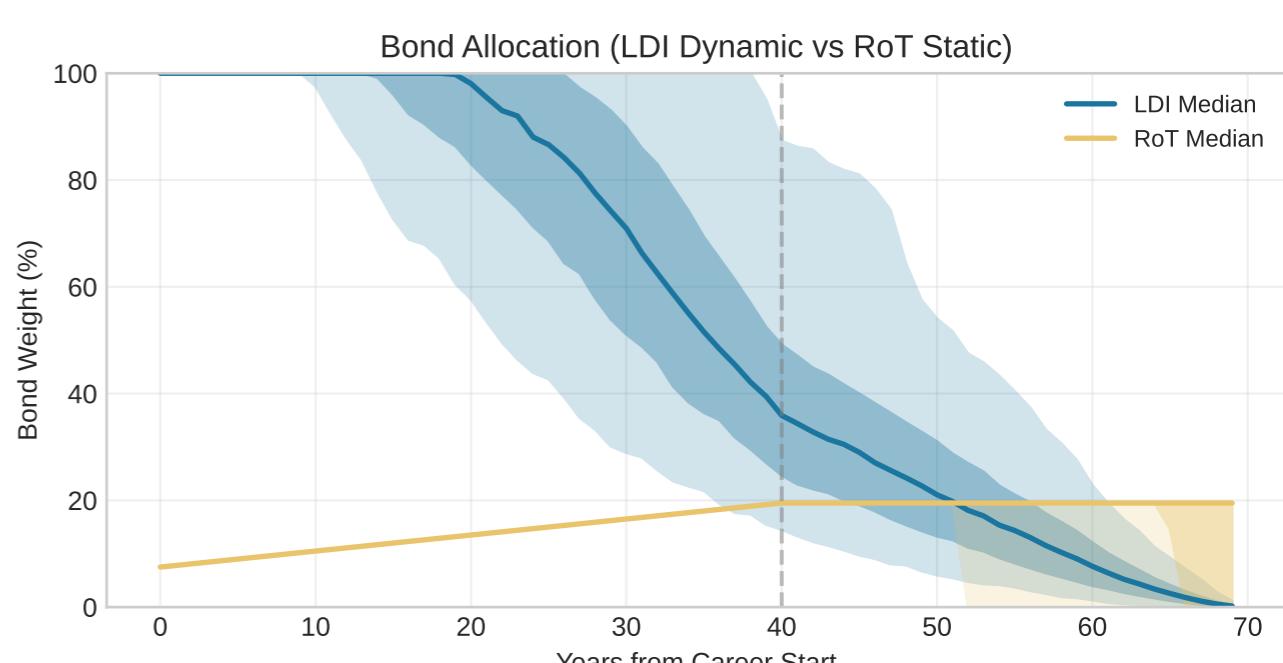
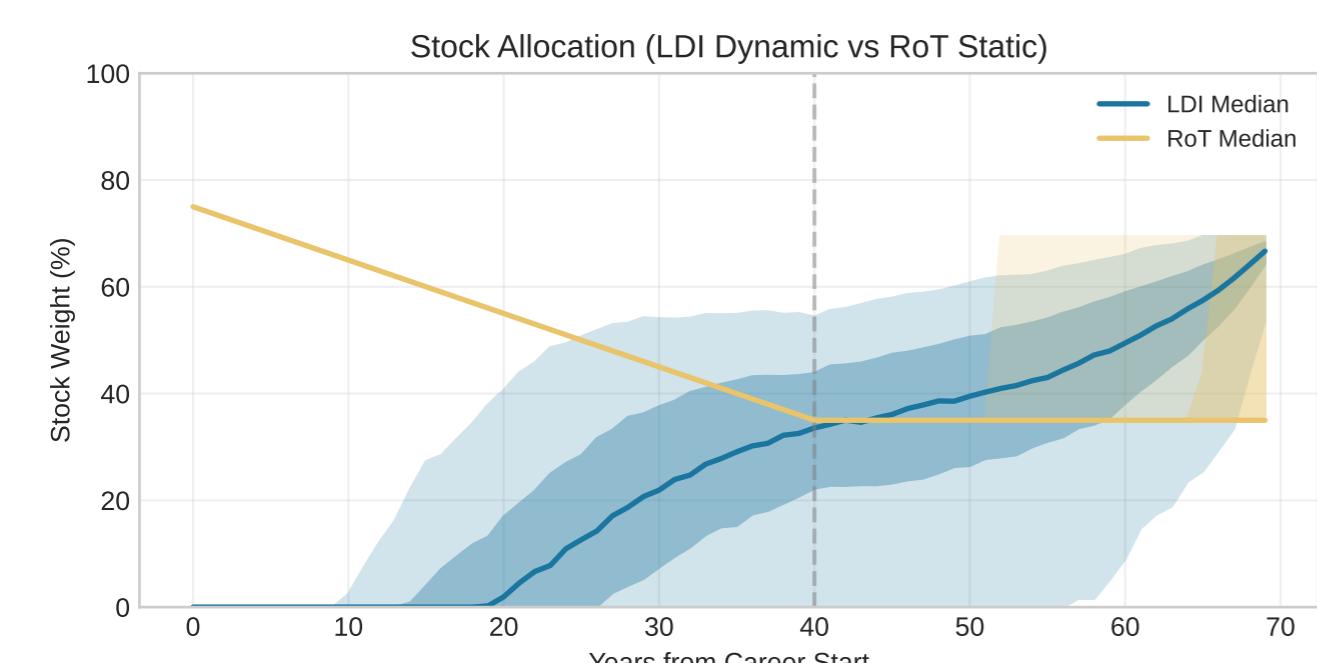
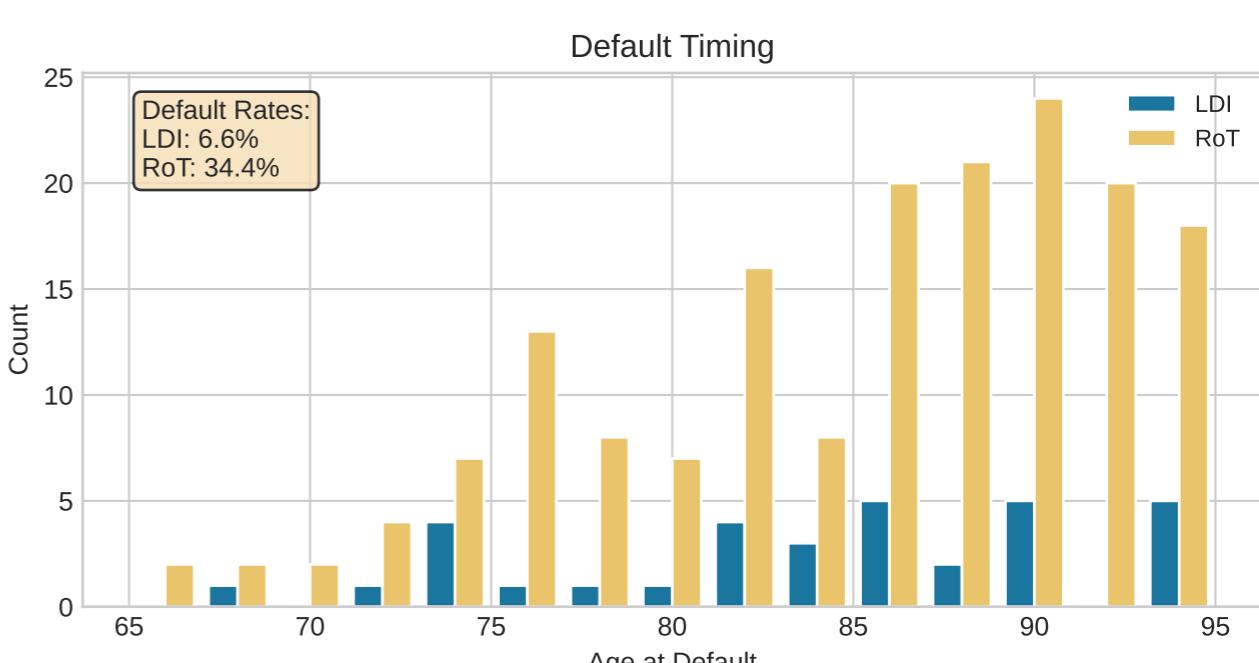
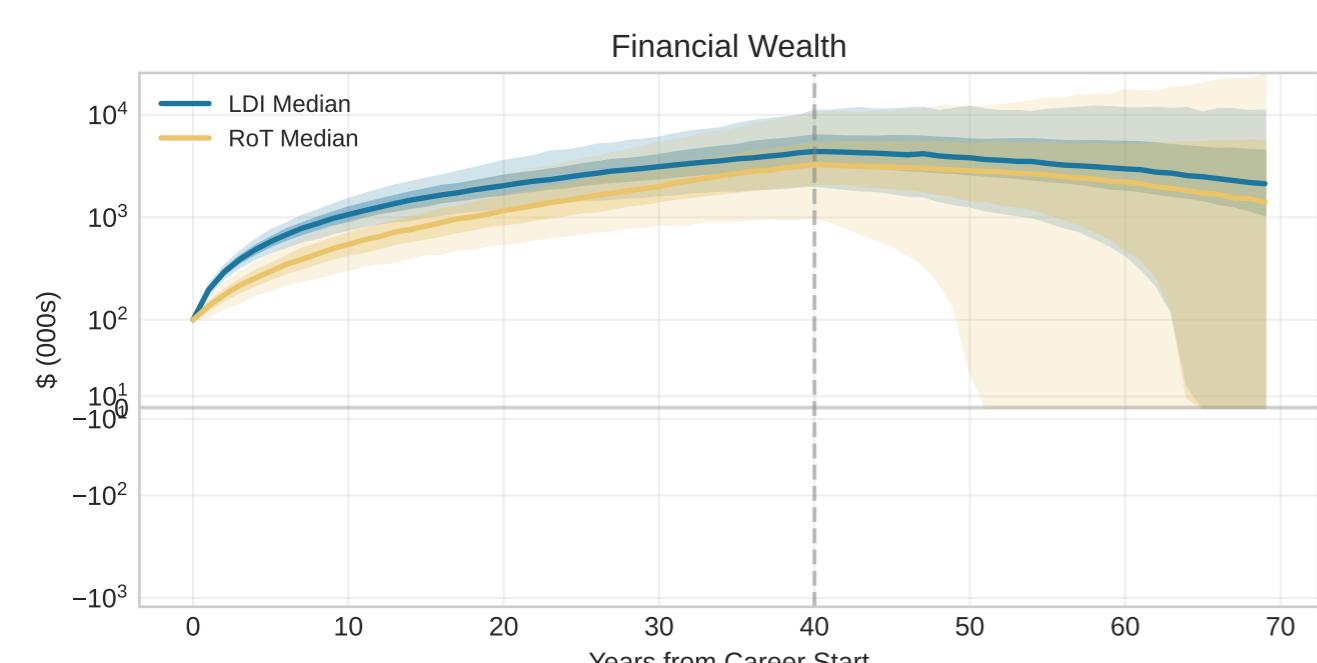
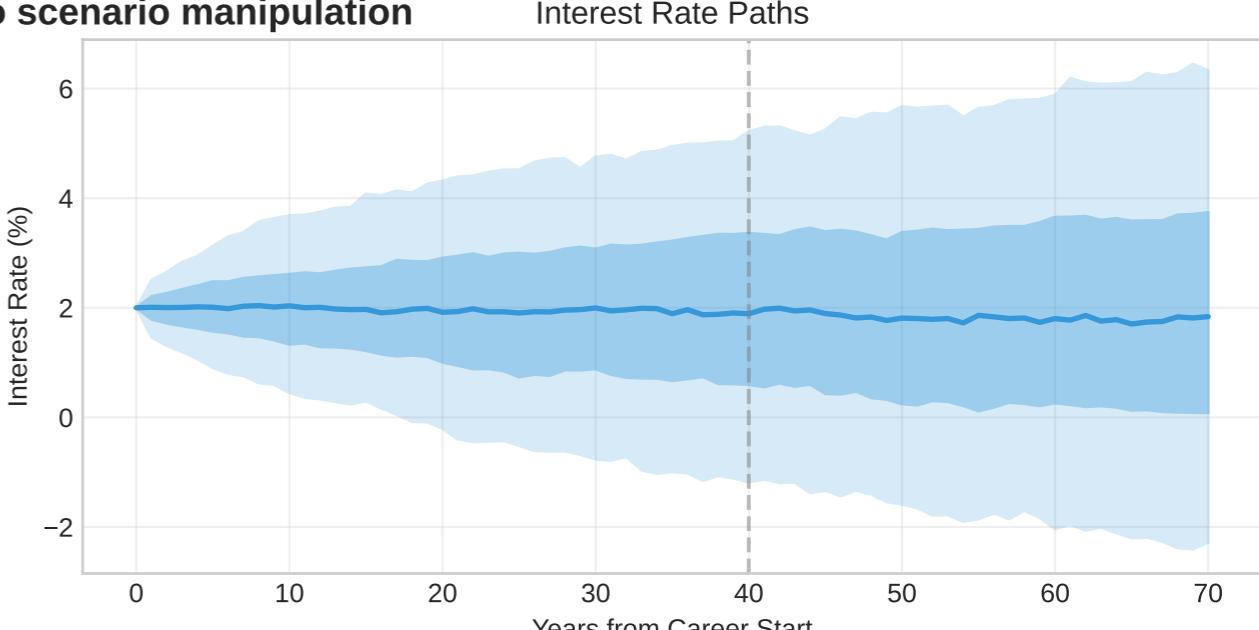
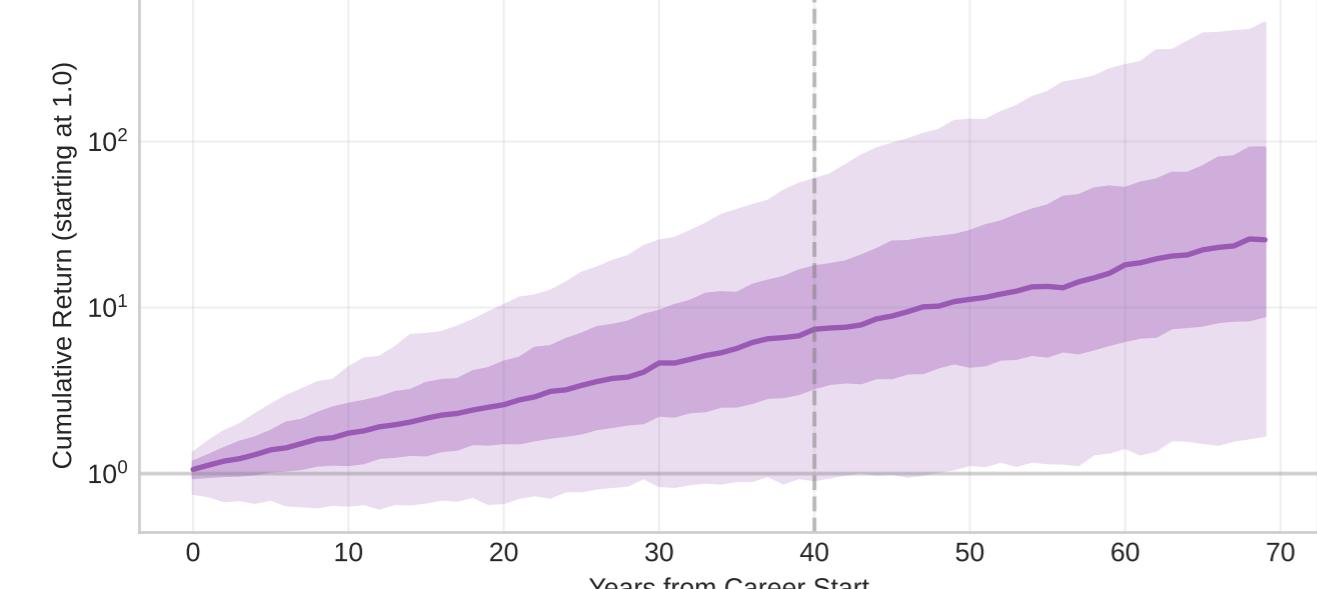


LDI Target Dollar Positions (\$k)





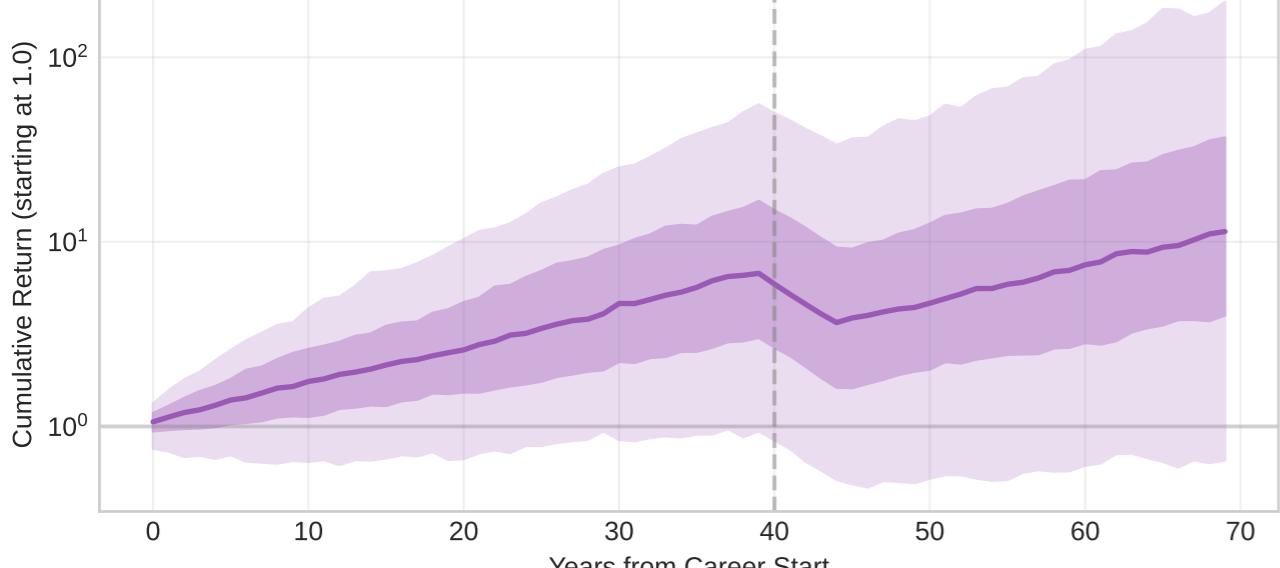
Baseline: Normal Monte Carlo ($\beta=0.4$)
Cumulative Stock Market Returns - Standard random shocks - no scenario manipulation



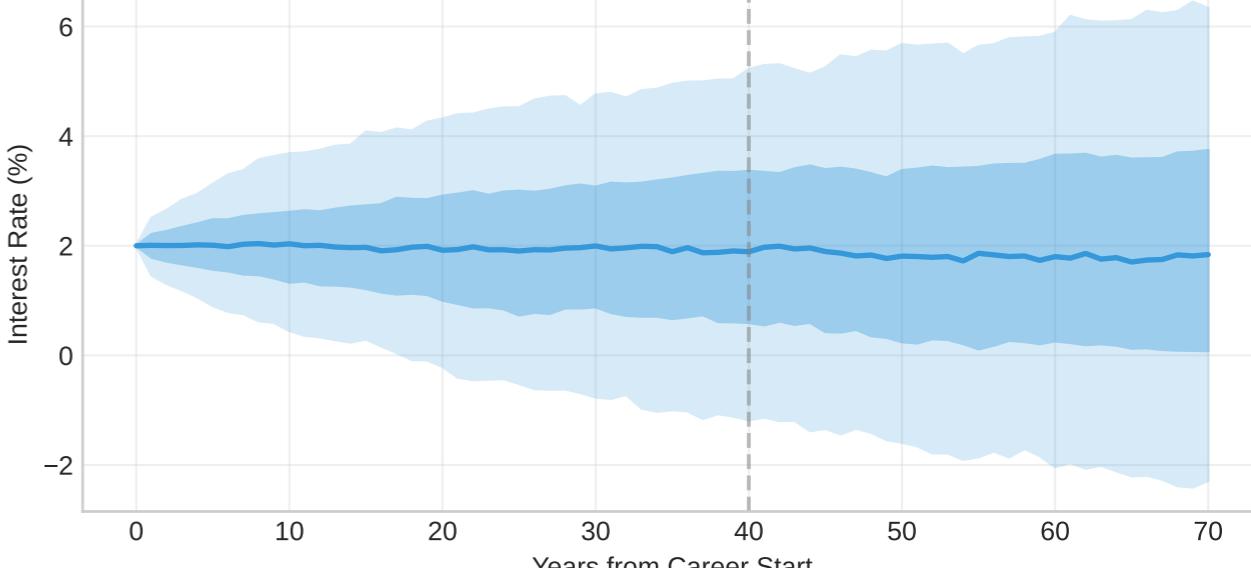
Sequence-of-Returns Risk ($\beta=0.4$)

Cumulative Stock Market Returns

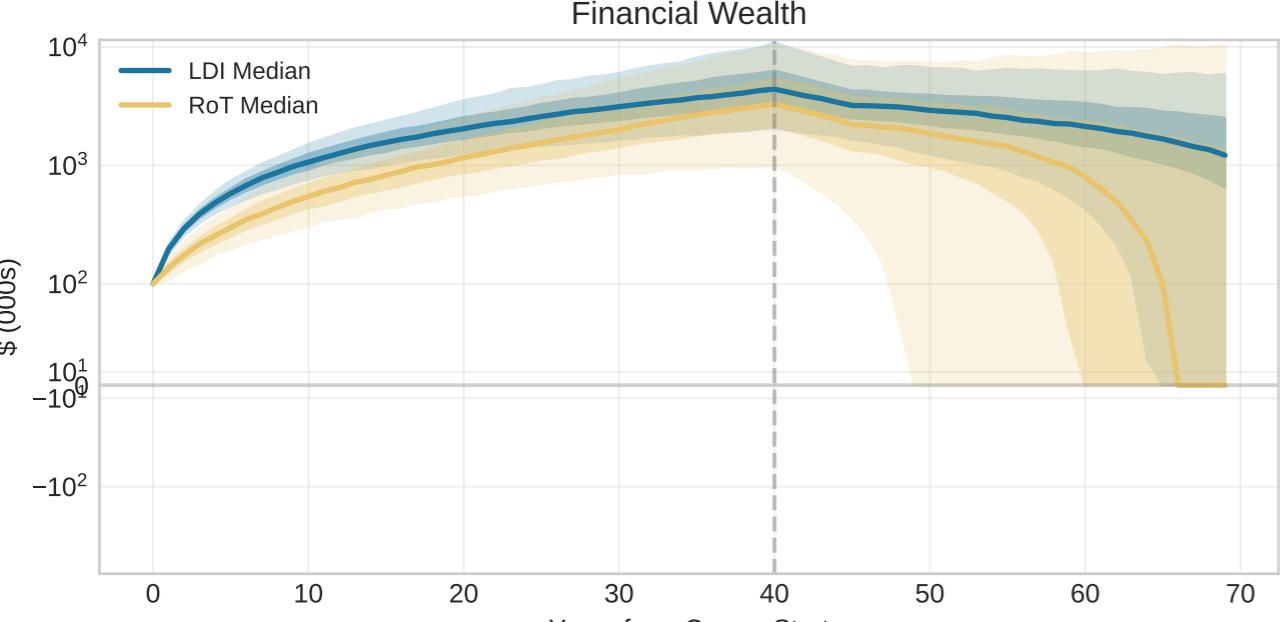
Bad stock returns (~-12%/yr) in first 5 years of retirement



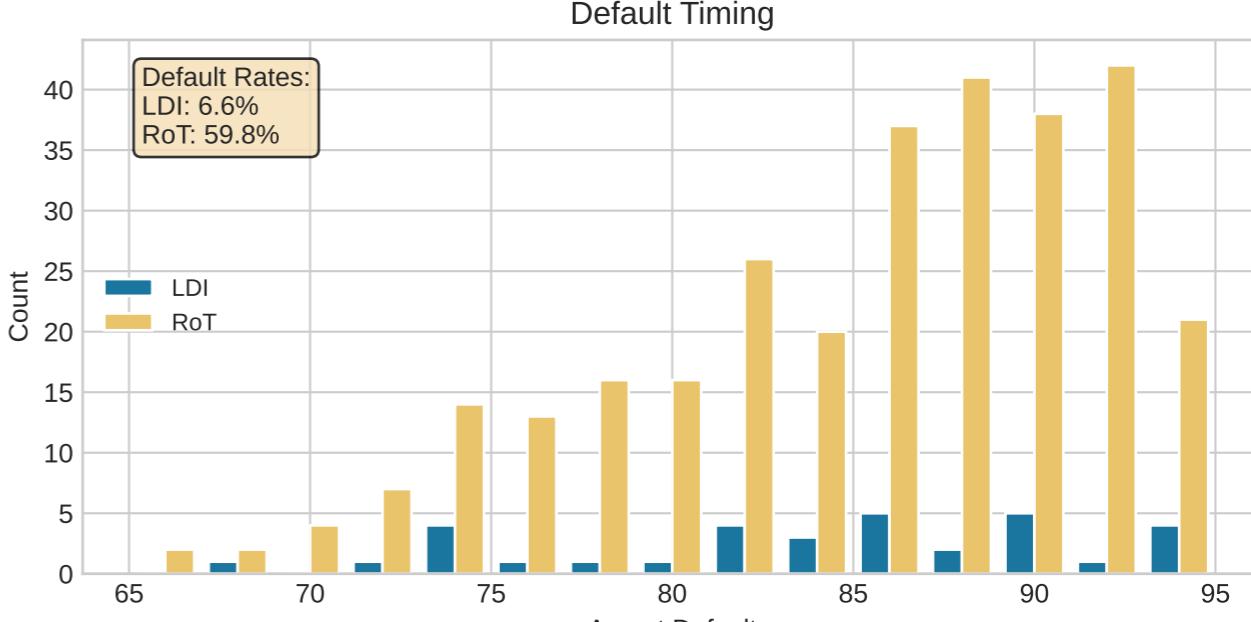
Interest Rate Paths



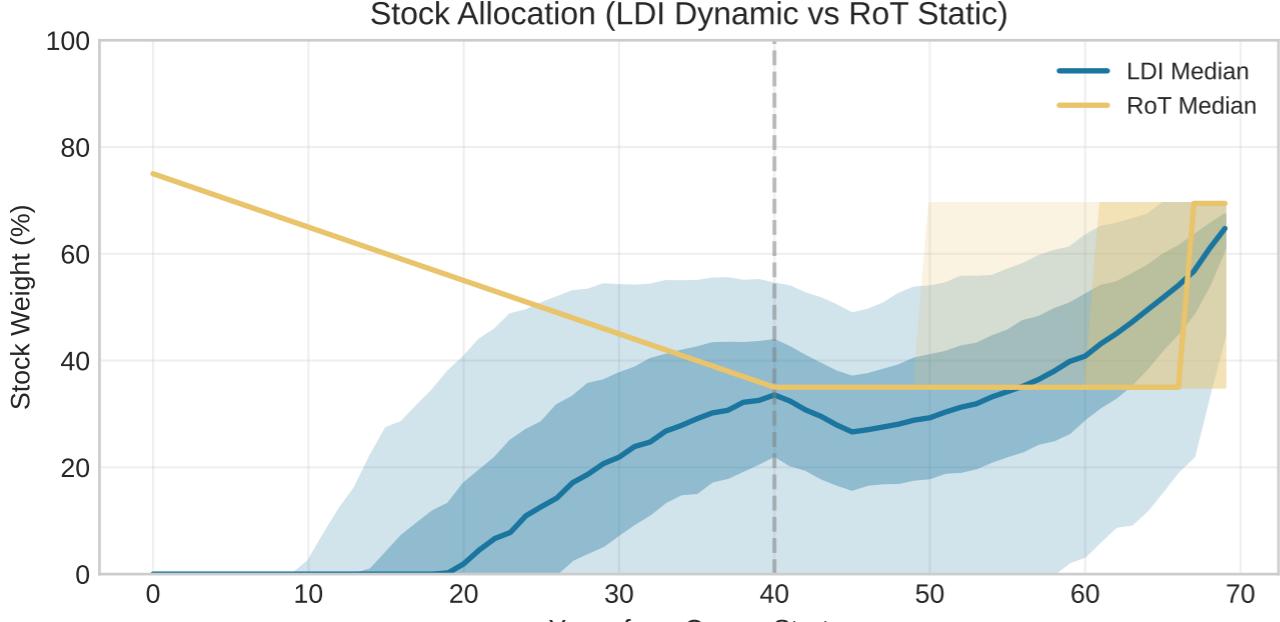
Financial Wealth



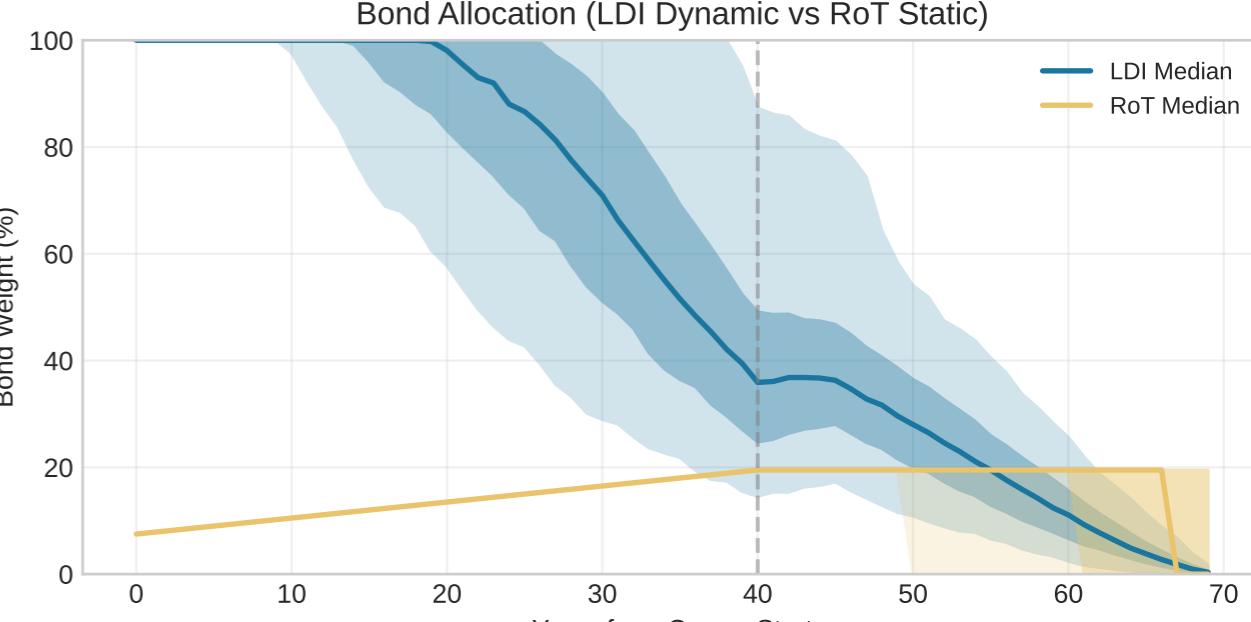
Default Timing



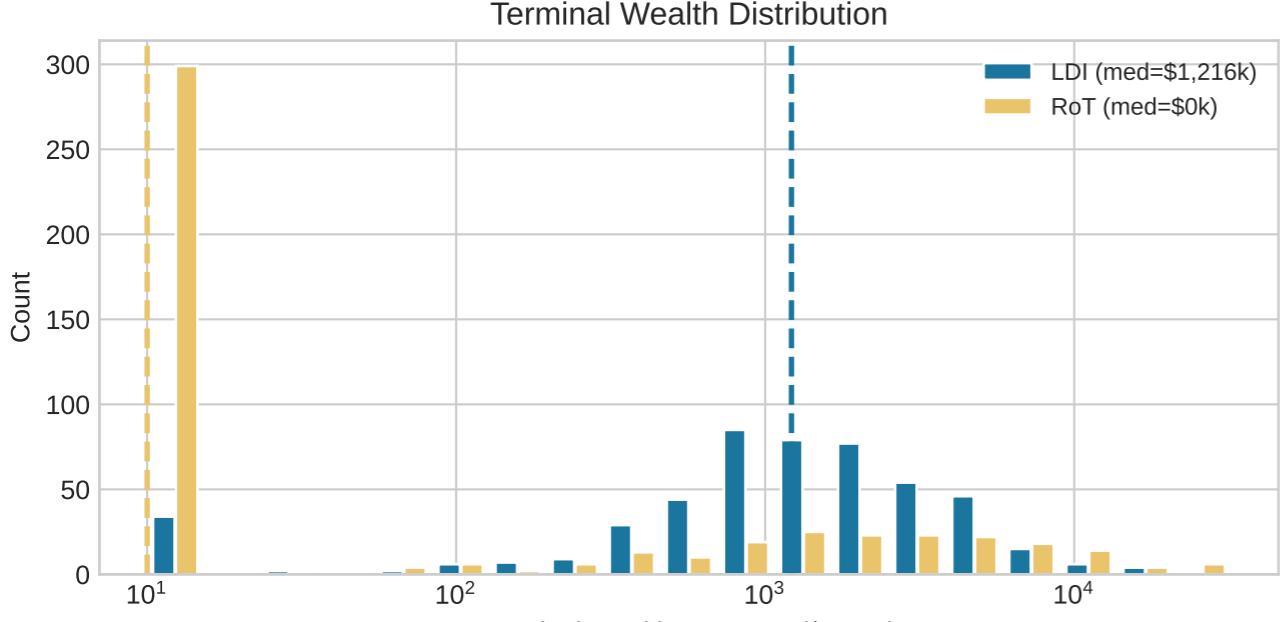
Stock Allocation (LDI Dynamic vs RoT Static)



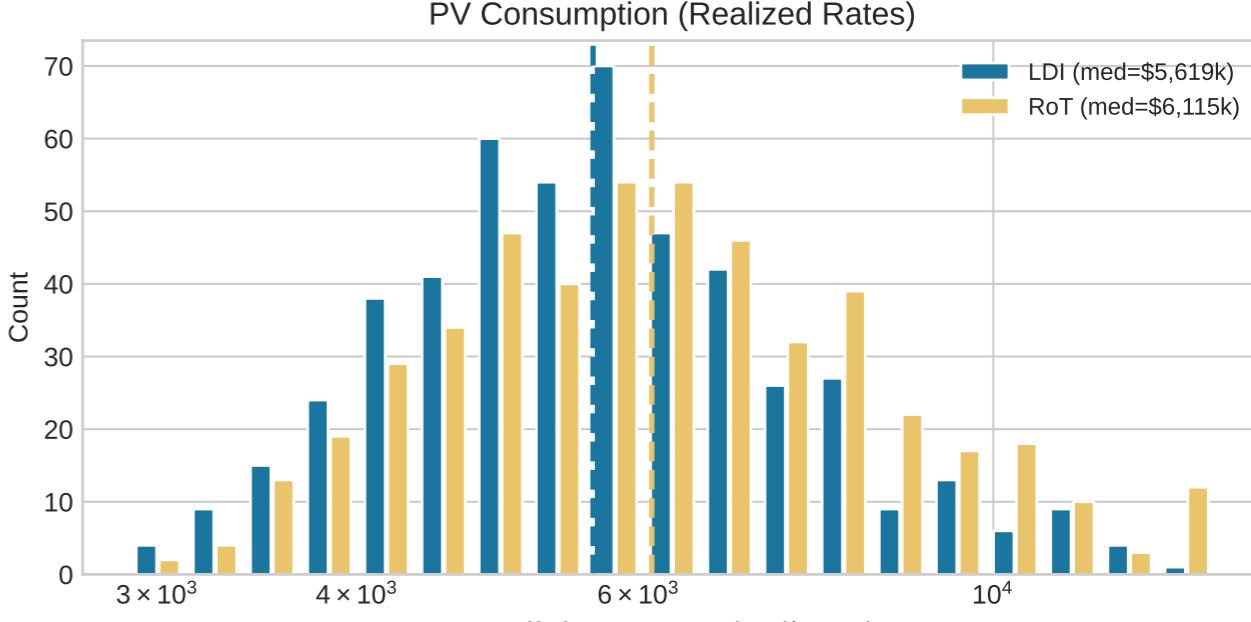
Bond Allocation (LDI Dynamic vs RoT Static)



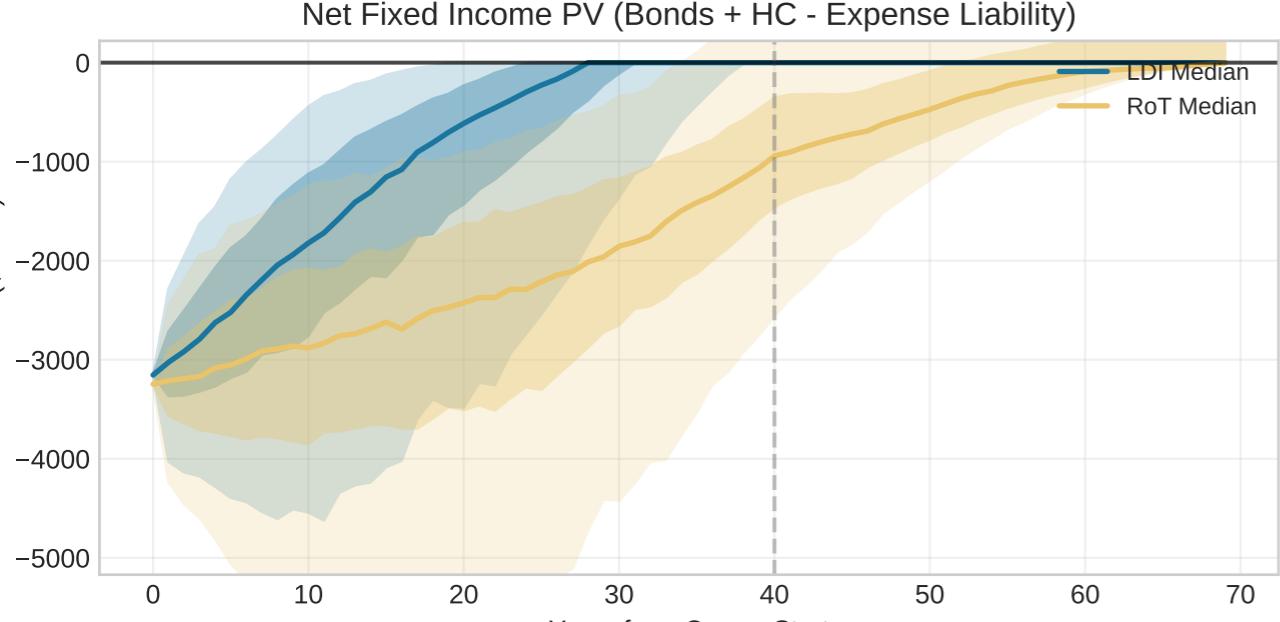
Terminal Wealth Distribution



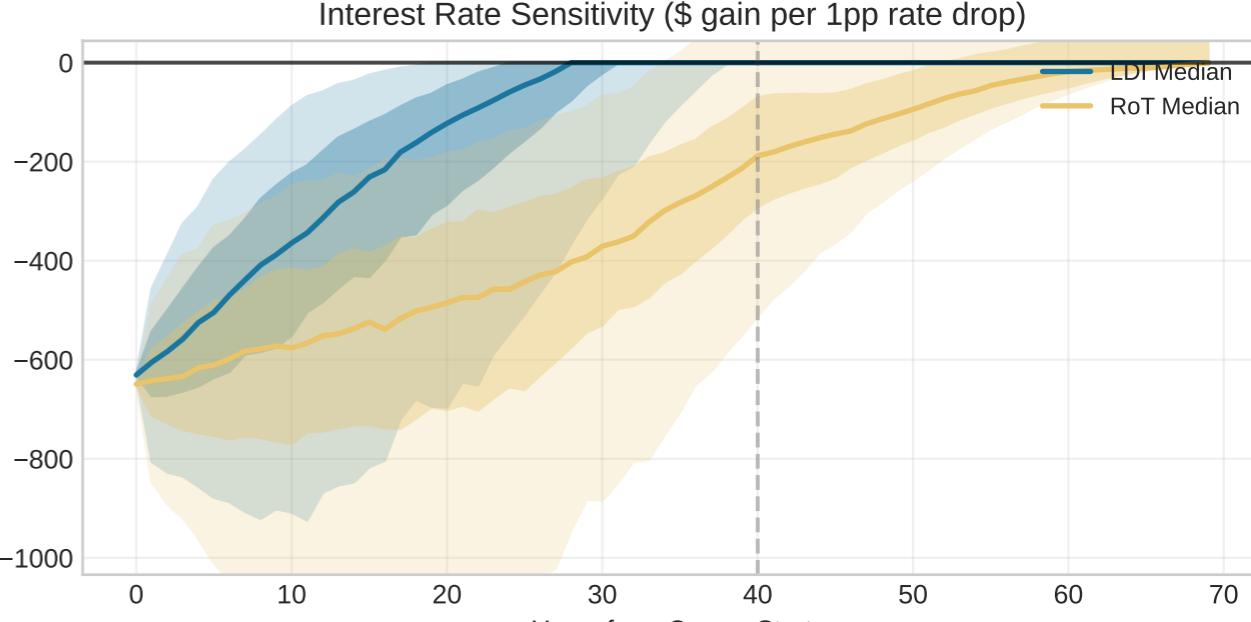
PV Consumption (Realized Rates)



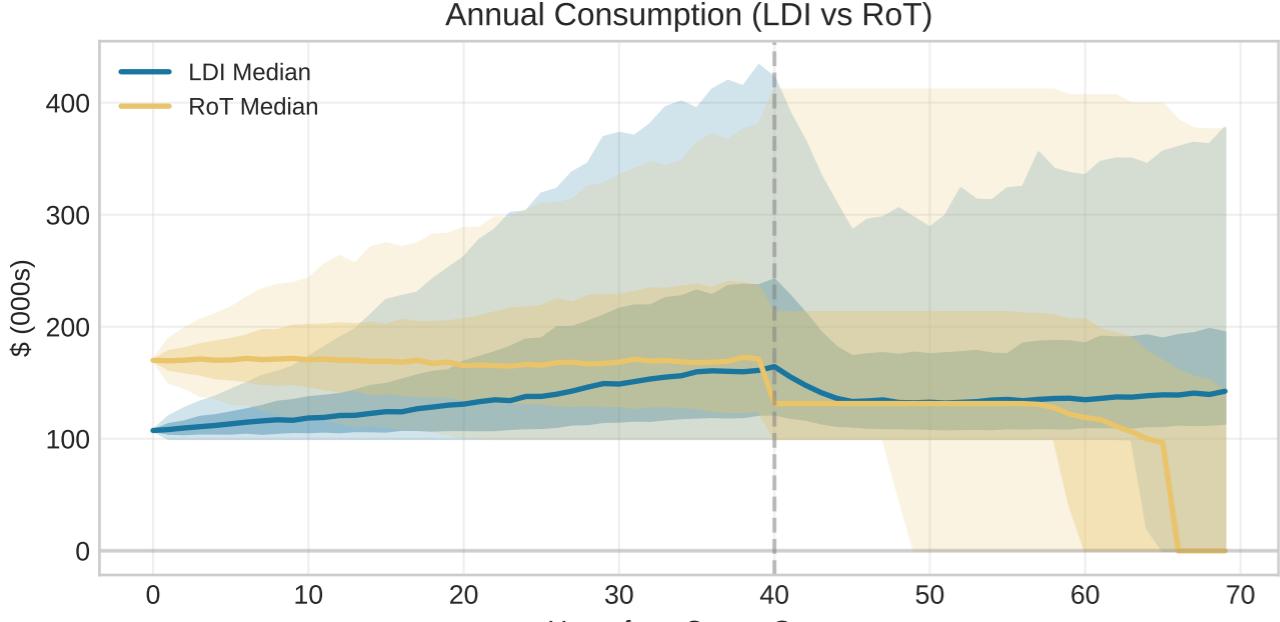
Net Fixed Income PV (Bonds + HC - Expense Liability)



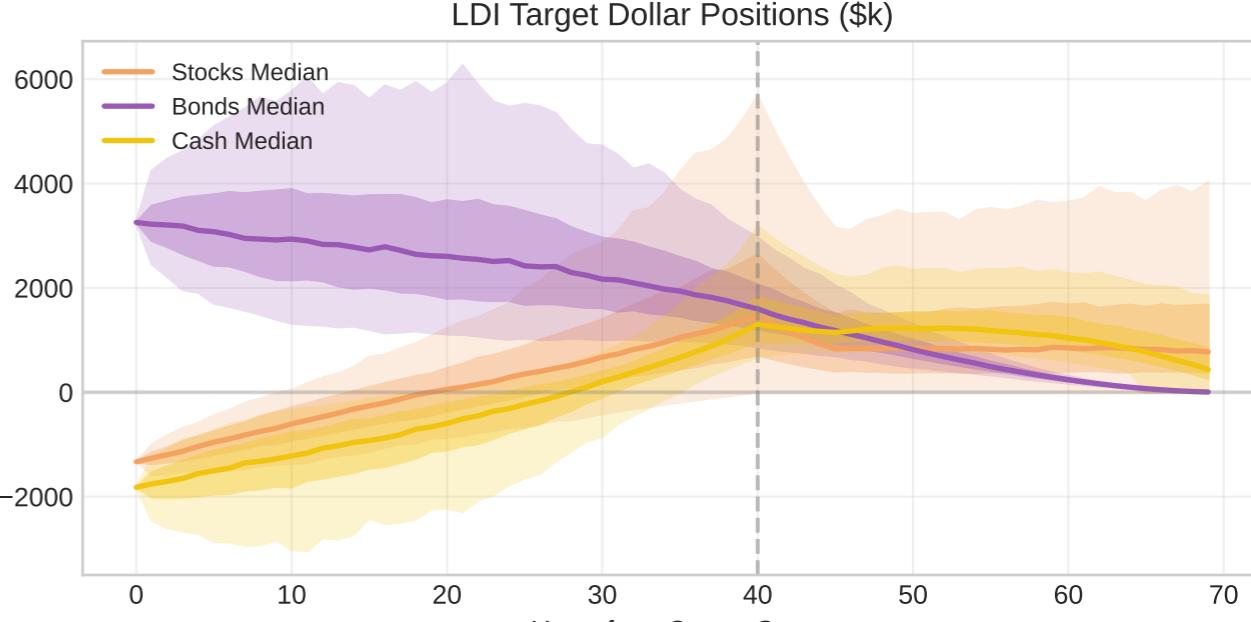
Interest Rate Sensitivity (\$ gain per 1pp rate drop)



Annual Consumption (LDI vs RoT)



LDI Target Dollar Positions (\$k)



Pre-Retirement Rate Shock ($\beta=0.4$)

Cumulative Stock Market Interest Rate Shock (~4% cumulative) in 5 years before retirement

