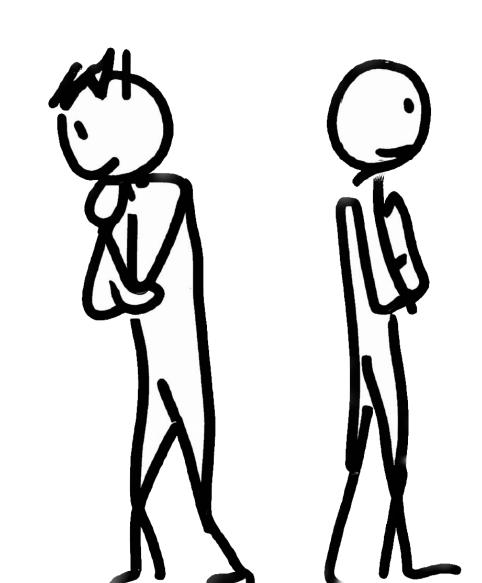
Present bias

Notes on Behavioural Economics

Jason Collins



 β : Short term discount factor

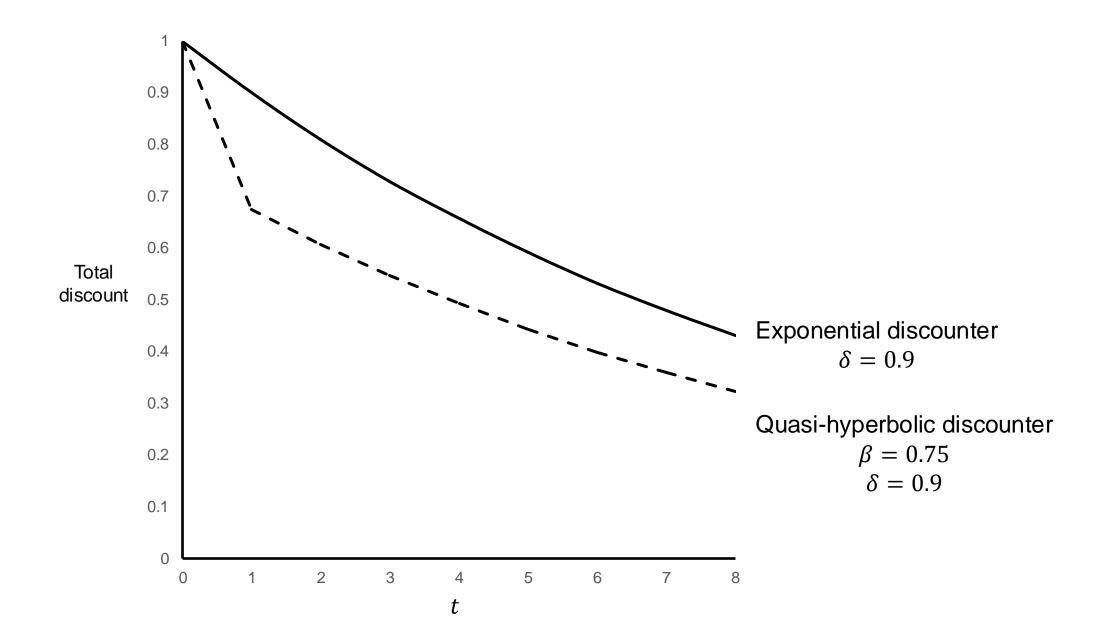
 δ : Usual discount factor

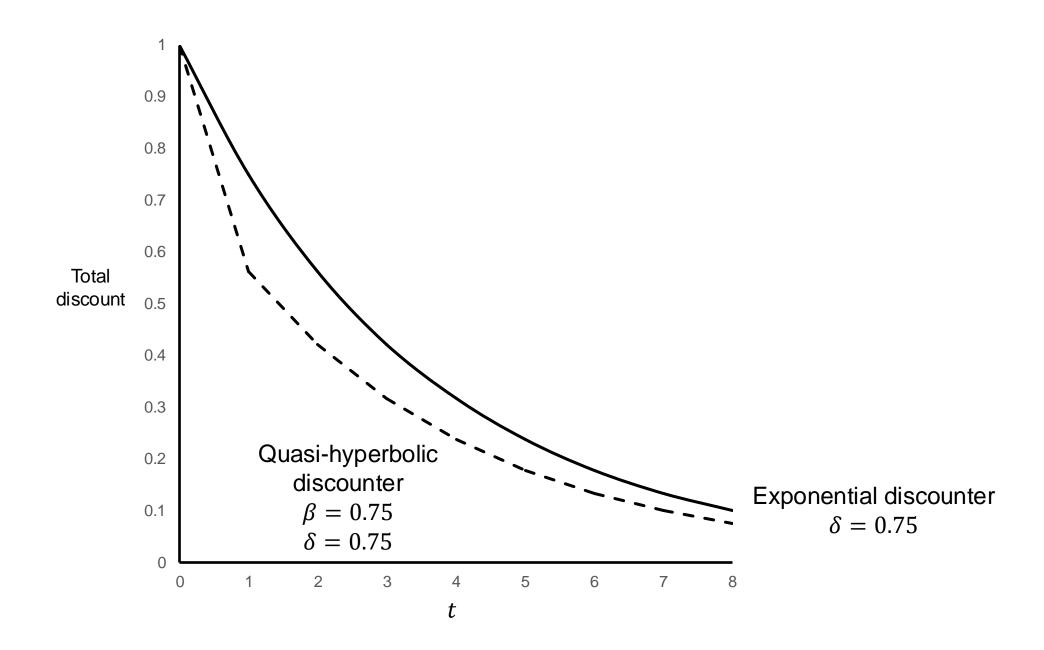
 $0 \le \delta \le 1$ $0 \le \beta \le 1$

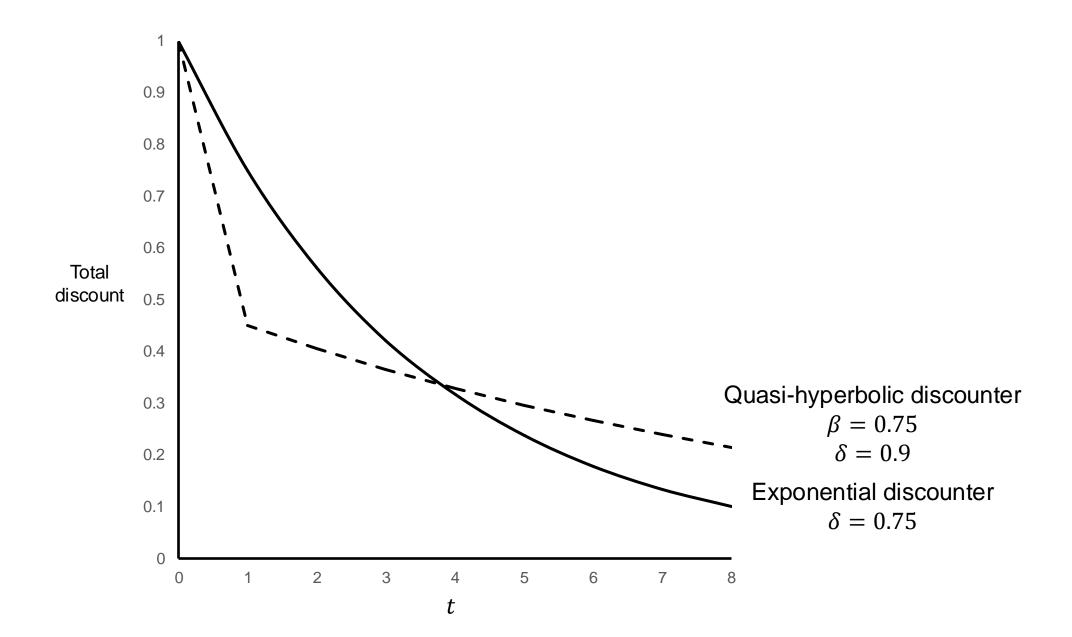
$$U_{0} = u(x_{0}) + \beta \delta u(x_{1}) + \beta \delta^{2} u(x_{2}) + \beta \delta^{3} u(x_{3}) \dots + \beta \delta^{T} u(x_{T})$$

$$= u(x_{0}) + \beta \sum_{t=1}^{t=T} \delta^{t} u(x_{t})$$

1, $\beta\delta$, $\beta\delta^2$, $\beta\delta^3$, $\beta\delta^4$, ...







1, $\beta\delta$, $\beta\delta^2$, $\beta\delta^3$, $\beta\delta^4$, ...

Assumptions

- Time-consistency
- Consumption independence
- Stationary preferences
- Utility Independence

Assumptions

- Time-consistency
- Consumption independence
- Stationary preferences
- Utility Independence