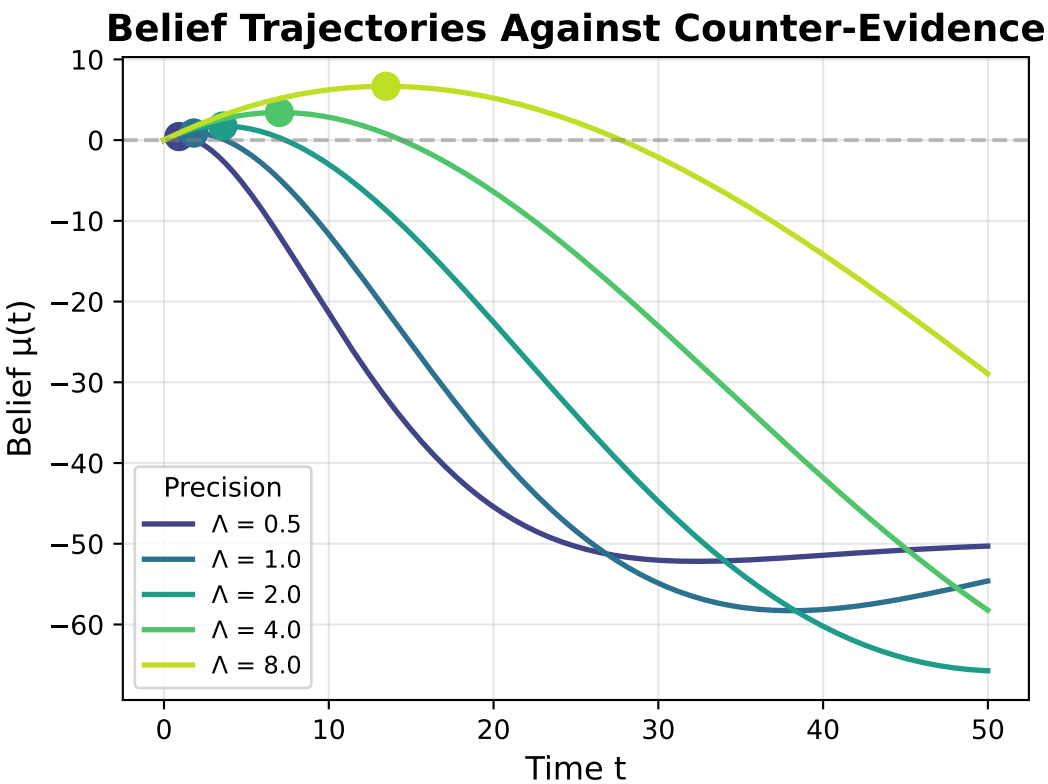
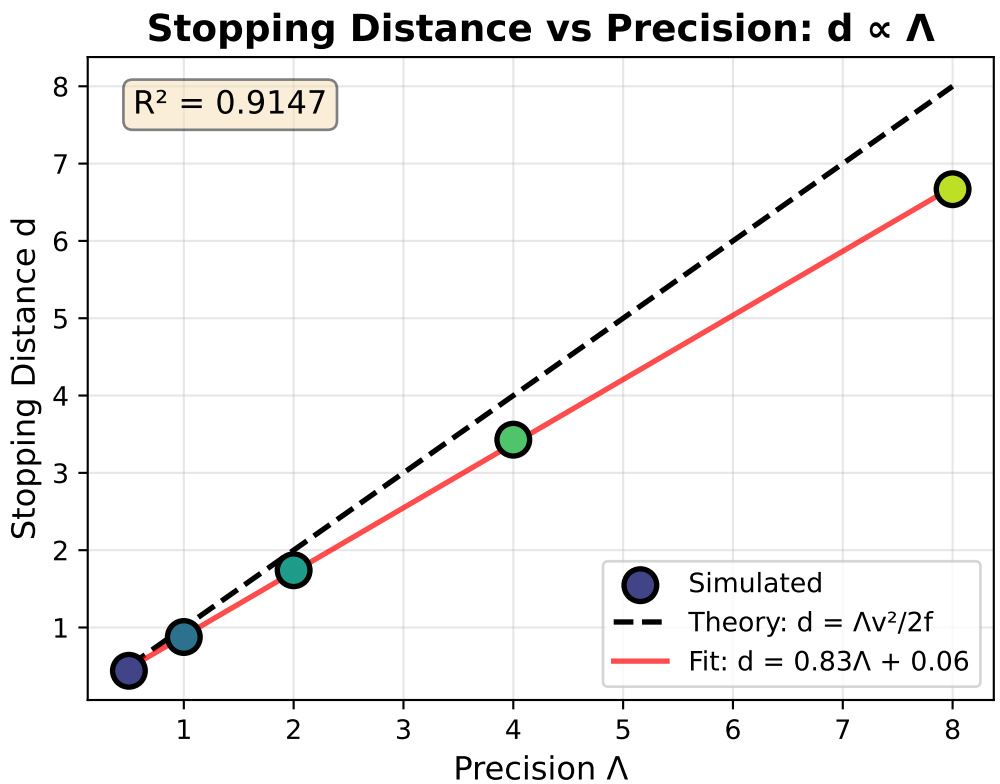
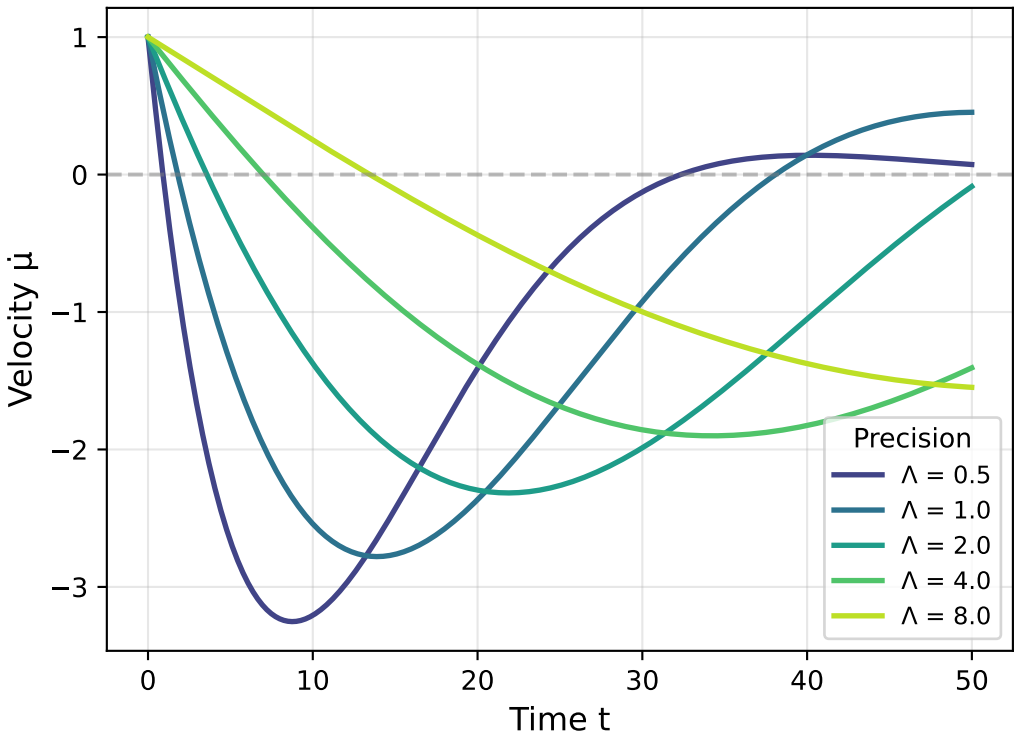
# Confirmation Bias: Stopping Distance Proportional to Precision

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CONFIRMATION BIAS AS MOMENTUM (Eq. 33-35)

Stopping Distance Formula:

    d_stop = M||μ̇||² / (2||f||) = Λ v² / (2f)

Where:
• M = Λ = precision (epistemic mass)
• v = μ̇ = belief velocity
• f = counter-evidence force

KEY PREDICTION:

    d_H / d_L = Λ_H / Λ_L

"A person twice as confident
 overshoots twice as far"

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SIMULATION RESULTS:

Linear fit: d = 0.830Λ + 0.059
Theory:     d = 0.500Λ

Correlation R² = 0.9147

CONFIRMATION BIAS EMERGES FROM
BELIEF INERTIA, NOT IRRATIONALITY!
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