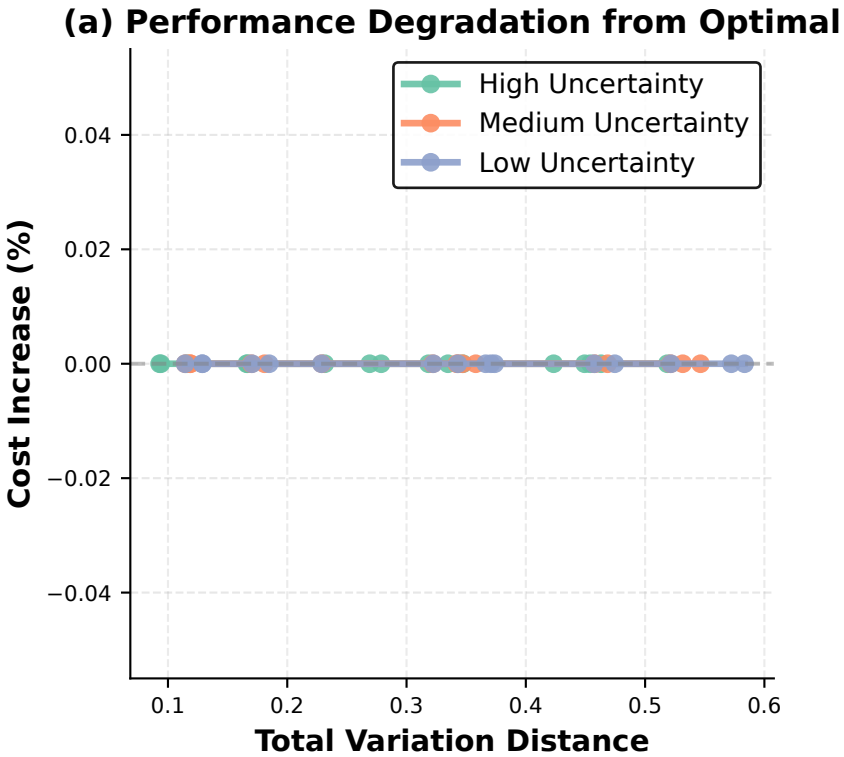
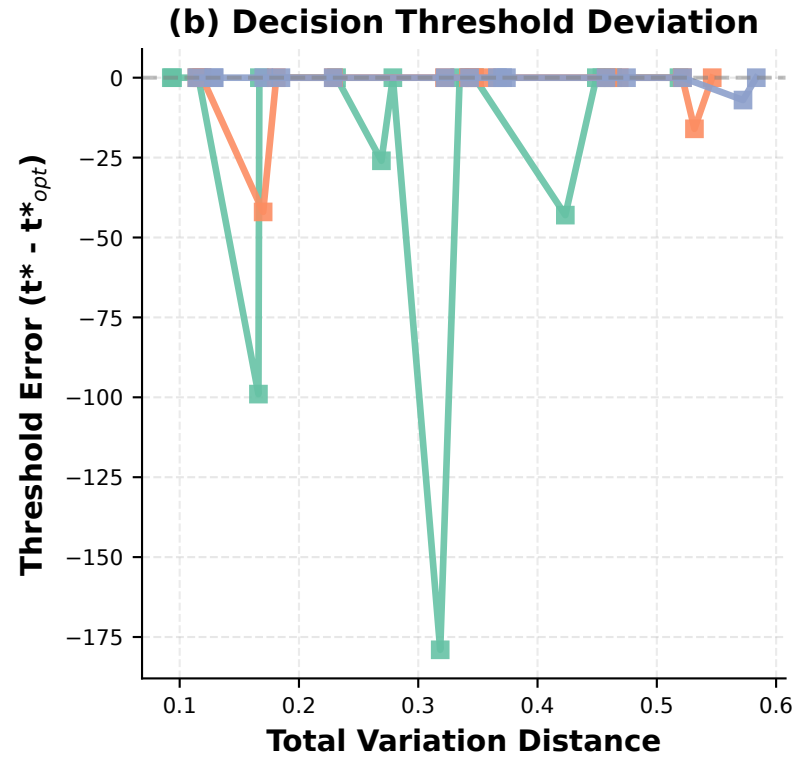
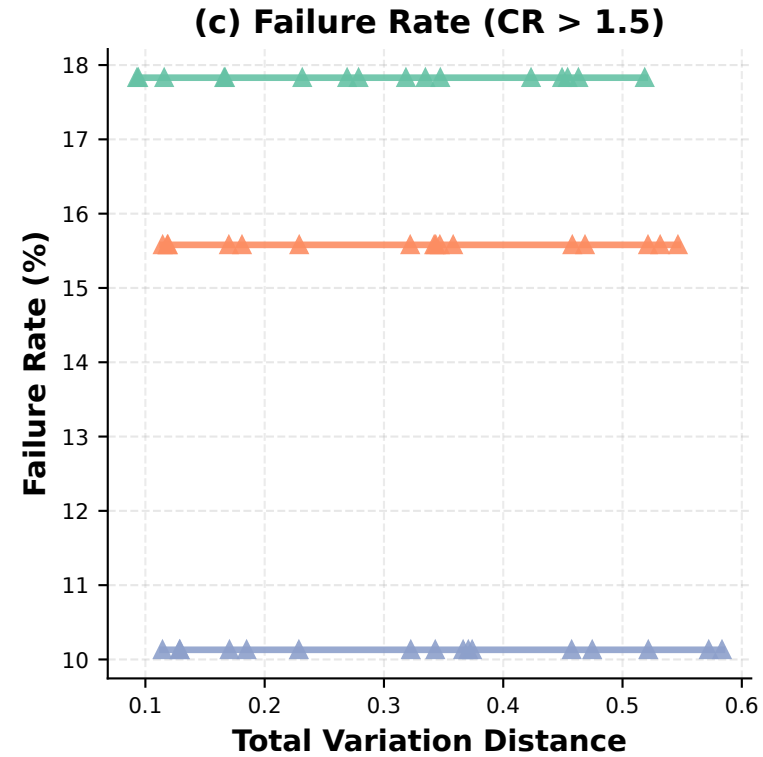
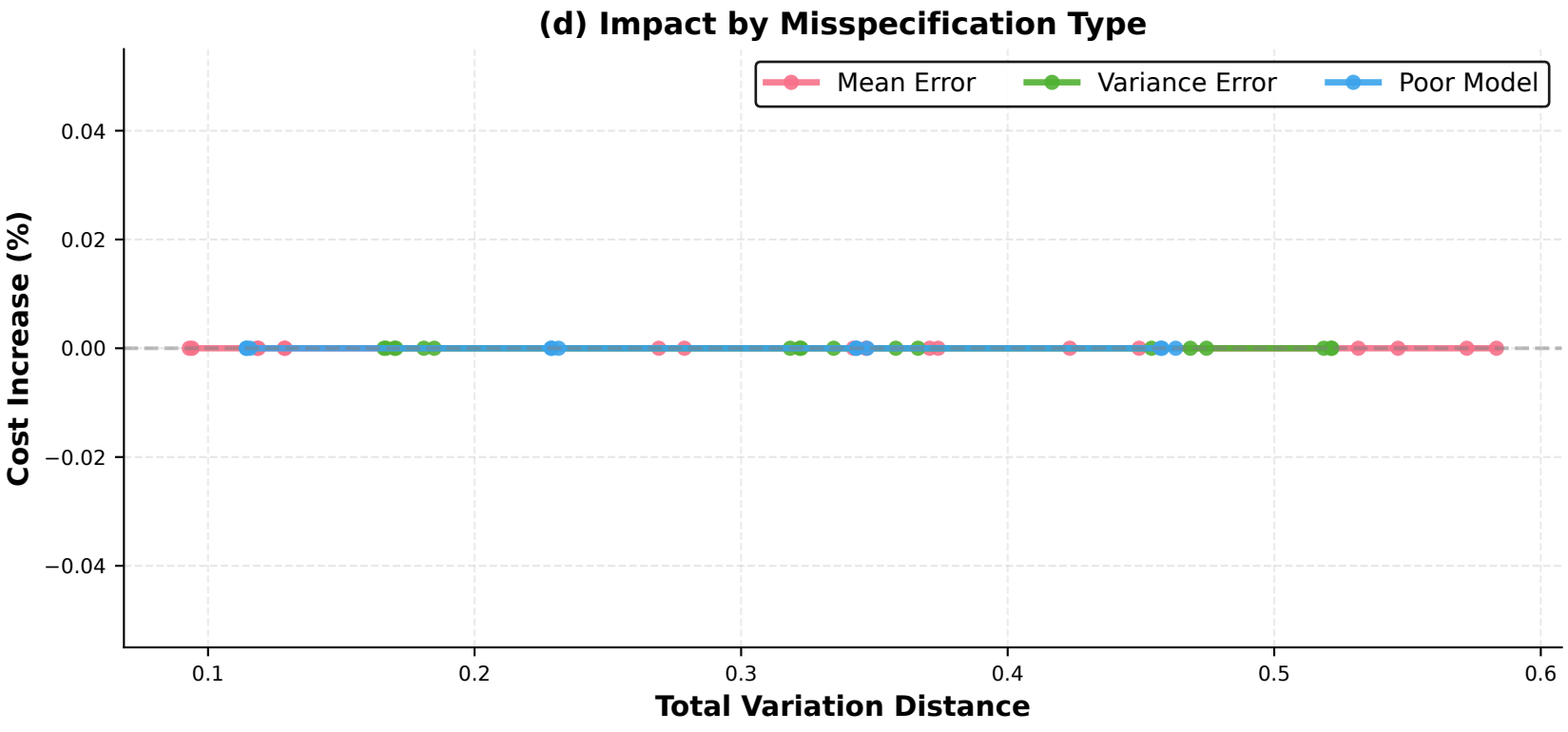
Experiment 3: Impact of Prior Misspecification on Bayesian Ski Rental







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KEY FINDINGS
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High Uncertainty:
  Avg cost increase: 0.000%
  Max cost increase: 0.000%
  Avg failure rate: 17.83%
  Max threshold error: 179

Medium Uncertainty:
  Avg cost increase: 0.000%
  Max cost increase: 0.000%
  Avg failure rate: 15.58%
  Max threshold error: 42

Low Uncertainty:
  Avg cost increase: 0.000%
  Max cost increase: 0.000%
  Avg failure rate: 10.13%
  Max threshold error: 7

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INTERPRETATION:
• Higher uncertainty → more
  sensitive to prior errors
• Threshold deviations can be
  large, but cost impact modest
• Algorithm is robust overall
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