

Inflation Anchoring and Behavioural Tourism Demand

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Abstract

This paper develops a behavioural open-economy model to explain how inflation expectations influence international tourist demand. Unlike conventional frameworks that treat inflation as exogenous, our model embeds expectations directly in tourists' forward-looking decisions. When expectations are unanchored, perceived destination costs rise disproportionately, producing nonlinear declines in real tourism demand; when expectations remain anchored, spending stabilises. Extending the model to include cost rigidity and exchange rate flexibility shows that low credibility regimes amplify volatility as inflation pessimism links with depreciation risk. Our framework rationalises recent anomalies—such as sharp demand contractions in high inflation economies like Turkey in 2022—and complements empirical findings showing weak direct price elasticities in long-haul markets.

Keywords: tourism demand; inflation expectations; behavioural macroeconomics; forward-looking behavior; inflation targeting

JEL Classifications: E31; D84; L83; E58

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We would like to thank two anonymous reviewers for insightful comments that greatly improved the paper. All remaining errors are our own.

1. Introduction

The COVID-19 pandemic has reshaped global tourism patterns, introducing unprecedented volatility in both mobility and macroeconomic fundamentals. As borders reopen and travel gradually normalises, a new source of uncertainty has emerged: inflation. Across developed and emerging economies alike, the post-pandemic recovery has been accompanied by rising and unpredictable price levels, especially in services sectors such as hospitality, air transport, and accommodation — core components of tourism consumption. While traditional tourism models emphasise that relative prices and incomes are key demand drivers, far less attention has been paid to how tourists perceive and form expectations about future inflation when deciding where and how much to travel. This paper addresses the gap by introducing a behavioural macroeconomic perspective into tourism demand theory.

This behavioural dimension draws directly on forward-looking macroeconomic models with information frictions and bounded rationality. Our theoretical setup parallels the sticky-information model of [Mankiw and Reis \(2002\)](#) and the rational-inattention framework of [Sims \(2003\)](#), where agents update expectations infrequently or process information imperfectly. Recent extensions such as [Gabaix \(2020\)](#) emphasise that behavioural distortions can systematically amplify macroeconomic shocks. Applying these insights to international tourism, we treat tourists as forward-looking consumers who form imperfect expectations about future prices at the destination. Expectation rigidity and extrapolative beliefs therefore generate nonlinear responses of tourism demand to perceived inflation risk—consistent with the evidence of information rigidity documented by [Coibion and Gorodnichenko \(2015a\)](#). By embedding this behavioural channel in a simple open-economy setting, our paper provides one of the first micro-foundations of tourists' forward-looking decisions under subjective inflation risk and situates the analysis within the broader literature on adaptive learning and information-constrained agents.

We developed a theoretical model in which international tourists allocate income between domestic consumption and foreign tourism. Crucially, they base their decisions not only on current prices but also on subjective expectations of future inflation in destination countries. We distinguish between two regimes: i) an *anchored* regime, where tourists perceive price levels as stable and predictable, and ii) an *unanchored* regime, where tourists expect price volatility or systematically overreact to recent inflation. Our model shows that even modest behavioural distortions in inflation expectations can lead to contractions in real tourism demand. Furthermore, countries with credible inflation-targeting regimes are shown to experience more stable inbound tourism flows.

This paper does not assume that tourists systematically or permanently overestimate inflation at destination countries. Instead, we focus on short-run, transitory inflation shocks—such as post-pandemic cost pressures or temporary supply disruptions—that

can temporarily unanchor expectations. Because international tourism decisions are inherently forward-looking and often involve advance planning and booking, even short-lived inflation surprises may distort perceived future costs over the travel horizon. These temporary expectation distortions can therefore generate medium-term consequences for tourism demand, even when actual inflation subsequently stabilises and expectations gradually re-anchor.

The key mechanism in our model is thus not persistent inflation, but persistence in expectations. A one-period inflation shock can have effects on tourism demand that outlast the shock itself, not because prices remain high, but because tourists' expectations adjust only gradually. This distinction is particularly relevant for tourism markets, where booking decisions are made weeks or months in advance and where perceived price risk matters as much as realised prices.

Consistent with behavioural macroeconomic models of information rigidity, inflation expectations in our framework are adaptive rather than permanently biased. As inflation volatility subsides and policy credibility is restored, expectations converge back toward realised inflation, and the contraction in tourism demand is partially reversed. Our analysis therefore captures the transitional dynamics following temporary inflation shocks, rather than a steady-state environment of chronic inflation misperception.

Our study connects and contributes to several strands of literature. First, we build on the large body of empirical work analysing the determinants of international tourism demand. Classical approaches often rely on gravity models or demand system estimation to quantify the effects of income, prices, and exchange rates on tourism flows (see [Crouch, 1994](#); [Song and Witt, 2000](#); [Lim, 1997](#); [Eilat and Einav, 2004](#)). However, these models typically assume tourists are perfectly informed and respond only to realised relative prices, ignoring expectation formation and behavioural distortions. Second, we draw on the behavioural macroeconomics literature, particularly models of inflation expectations under information frictions. Recent inflationary surges have exposed a critical vulnerability in tourism-dependent economies: even modest price fluctuations can deter visitors if perceived as persistent. Behavioural economics suggests that tourists, like other economic agents, rely on heuristics to forecast prices ([Gabaix, 2020](#)). When inflation expectations become unanchored — due to weak central bank credibility or extrapolative beliefs — tourists may overestimate future costs, distorting their consumption decisions. For example, a 10% inflation shock in a destination with unanchored expectations could trigger a demand drop exceeding 20% (see Section 2), a nonlinearity absent from conventional models. Yet, existing tourism demand frameworks (e.g., the almost ideal demand system of [De Mello et al., 2002](#)) typically assume rational expectations, ignoring how subjective inflation risk alters behaviour. There are a number of influential contributions in monetary policy design and inflation forecasting, including the sticky information model of [Mankiw and Reis \(2002\)](#), the rational inattention framework of [Sims \(2003\)](#), and evidence on expectation biases in both consumers and

professionals ([Coibion and Gorodnichenko, 2015b](#)). Nevertheless, the implications of these models for real-sector behaviour, such as tourism, have not been formally explored. Third, our work complements studies on the effects of macroeconomic stability and institutional credibility on tourism performance. For instance, [Tiwari *et al.* \(2019\)](#) and [Aloui *et al.* \(2021\)](#) find that political and economic stability influence destination attractiveness, but do not model inflation credibility or expectations *per se*. So far, no studies have examined the effects of macroeconomic risk perception on tourists' destination choices.

In this study, we argue that macroeconomic risks, especially inflation volatility and the credibility of monetary institutions, play a pivotal role in shaping tourists' forward-looking behaviour. International travel often involves pre-booking, long planning horizons, and exposure to price risk across currencies and jurisdictions. As such, tourists form expectations about future costs at their destination, and these expectations are influenced not only by historical prices but also by macroeconomic signals, such as inflation rates, central bank communication, and perceived policy stability. Our study brings these macroeconomic elements to the forefront, positioning them as core determinants of international tourism behaviour under uncertainty.

Our paper makes three main contributions. First, we developed a theoretical model that incorporates inflation expectation regimes — anchored vs. unanchored — into tourists' decision-making. Second, we show that expectation distortion acts as an endogenous wedge on real tourism prices, generating asymmetric responses to inflation even under constant nominal conditions. Third, we use calibrated numerical simulations to illustrate the nonlinear impact of behavioural unanchoring on tourism demand and highlight the stabilising role of inflation credibility. Despite the extensive empirical literature on tourism demand, standard rational-expectations models—such as gravity or demand-system frameworks—struggle to explain several post-pandemic anomalies. In particular, economies that experienced rapid inflation and exchange-rate depreciation, such as Turkey in 2022, saw disproportionately sharp declines in international arrivals even after accounting for income and relative-price effects ([World Tourism Organization, 2023](#)). By contrast, destinations with credible inflation-targeting regimes, such as Switzerland, maintained stable inflows despite global price volatility. Our model provides a behavioural explanation for these anomalies: when inflation expectations become unanchored, tourists systematically overstate future costs, leading to a nonlinear contraction in real tourism demand. In this sense, our model extends beyond conventional utility-maximisation approaches by embedding expectation formation and credibility into the core determinants of tourism competitiveness.

The rest of the paper is structured as follows. Section 2 presents the baseline theoretical model. Section 3 extends it to general equilibrium. Section 4 concludes and discusses policy implications for inflation targeting in tourism-dependent economies.

2. Model

2.1 Set up

We initially assume a fixed exchange rate regime or a monetary union between home and destination countries to isolate the effect of inflation expectations, an assumption we relax in subsection 2.4. We developed a stylised model to examine how inflation anchoring influences international tourism demand through tourists' expectations. The model features a representative tourist who allocates income between domestic consumption and a tourism good priced in foreign currency. Expectations about future prices at the destination play a central role in determining real tourism demand.

Consider a tourist residing in the home country (H), with nominal income (I), who chooses how much to allocate to domestic consumption C_H and international tourism consumption C_D . Let M denote nominal spending on tourism. We define inflation expectations over the future travel horizon rather than as an instantaneous distortion of the current price level. The current price level of tourism services in the destination country (D) is denoted by P_D , and $\mathbb{E}_t[P_{t+h}(D)]$ represents the tourist's expectation of the future price level at the time of travel, where h is the booking horizon (e.g., three to six months ahead). Accordingly, expected inflation over this horizon is $\pi_t^e = \ln\left(\frac{\mathbb{E}_t[P_{t+h}(D)]}{P_t(D)}\right)$. The tourist derives utility from both types of consumption and forms expectations about the real value of tourism based on the expected price level. The utility function is:

$$U = \ln(C_H) + \theta \mathbb{E}_t[\ln(C_D)], \quad (1)$$

where $0 < \theta < 1$ captures the relative preference for international travel, and expectations are taken with respect to the foreign tourism consumption good. The tourist faces the following constraints:

$$C_H = I - M, \quad (2)$$

$$C_D = \frac{M}{P_D^e}, \quad (3)$$

We consider two regimes for inflation expectations in the destination country: i) anchored expectations that tourist perceives inflation to be stable and well controlled, such that $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)$; ii) unanchored expectations that the tourist extrapolates recent price movements or overreacts to inflation news, forming expectations $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)e^\delta$, where $\delta > 0$ represents an expectation distortion parameter capturing the perceived cumulative inflation between t and $t + h$. Thus, δ corresponds to a biased inflation expectation rather than a direct markup on the current price level.

2.2 Optimization

Substituting the constraints into the utility function yields the tourist's problem¹:

$$\max_{M \in (0, I)} \ln(I - M) + \theta \ln \left(\frac{M}{P_D^e} \right), \quad (4)$$

The first order condition (FOC) with respect to M is:

$$\frac{-1}{I-M} + \theta \cdot \frac{1}{M} = 0 \Rightarrow M^* = \frac{\theta I}{1+\theta}. \quad (5)$$

Substituting the optimal M^* into the consumption of the tourism good gives the equilibrium real tourism demand:

$$C_D^* = \frac{M^*}{P_D^e} = \frac{\theta I}{(1+\theta)P_D^e}. \quad (6)$$

We can now express the equilibrium tourism demand under the two expectation regimes. Specifically, for anchored expectations, we have:

$$C_D^{anchored} = \frac{\theta I}{(1+\theta)P_D}. \quad (7)$$

While for unanchored expectation, we have:

$$C_D^{unanchored} = \frac{\theta I}{(1+\theta)P_D e^\delta}. \quad (8)$$

We therefore have the following propositions.

Proposition 2.1 (Inflation expectations reduce tourism demand). *Tourism demand is inversely related to expected prices: $\frac{\partial C_D^*}{\partial P_D^e} < 0$.*

Proof. From the optimal allocation derived in Equation (6), the real tourism demand is:

$$C_D^* = \frac{\theta I}{(1+\theta)P_D^e}.$$

Taking the partial derivative with respect to P_D^e yields:

$$\frac{\partial C_D^*}{\partial P_D^e} = -\frac{\theta I}{(1+\theta)(P_D^e)^2} < 0,$$

¹ The optimisation problem in Equation (4) can also be interpreted as the reduced form of a two-period intertemporal utility framework consistent with the constraints in Equations (2)-(3). Specifically, at time t , a tourist allocates income I between domestic consumption and nominal tourism expenditure M , such that $C_H = I - M$ and $C_D = \frac{M}{\mathbb{E}_t[P_{t+h}(D)]}$. Here $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)e^\delta$ represents the expected destination price level over the booking horizon h . A more general two-period version would therefore be:

$$\max_{M_t, M_{t+h}} U(C_H^t, C_D^{t+h}) \quad s.t. \quad C_H^t = I - M_t, \quad C_D^{t+h} = \frac{M_{t+h}}{\mathbb{E}_t[P_{t+h}(D)]}$$

Advance bookings correspond to M_t contracted at $P_t(D)$, while deferred expenditures correspond to M_{t+h} subject to expectation inflation. Our single-period model thus represents the limiting case where M_{t+h} dominates (i.e., consumption occurs primarily at the destination), making perceived inflation the key determinant of real tourism demand.

Since all parameters are positive. This confirms that expected inflation at the destination reduces real tourism demand.

Proposition 2.2 (Anchoring stabilises tourism flows). *If expectations are anchored, i.e., $P_D^e = \bar{P}_D$, then tourism demand is invariant to actual inflation at the destination.*

Proof. Under anchored expectations, we have $P_D^e = \bar{P}_D$, where \bar{P}_D is a fixed constant, independent of the realised price level P_D . Then the real tourism demand becomes:

$$C_D^{\text{anchored}} = \frac{\theta I}{(1 + \theta)\bar{P}_D}.$$

Because \bar{P}_D is constant, it follows that:

$$\frac{\partial C_D^{\text{anchored}}}{\partial P_D} = 0.$$

This implies that tourism demand does not respond to transitory inflation shocks when expectations are anchored.

Proposition 2.3 (unanchored expectations amplify volatility). *Under unanchored expectations, $P_D^e = P_D \cdot e^\delta$ with $\delta > 0$, tourism demand is more sensitive to inflation shocks, and the elasticity of tourism demand with respect to P_D increases with δ .*

Proof. Under unanchored expectations, real tourism demand is:

$$C_D^{\text{unanchored}} = \frac{\theta I}{(1 + \theta)P_D e^\delta}.$$

Taking logarithms on both sides of the equation, get:

$$\ln C_D^{\text{unanchored}} = \ln \frac{\theta I}{(1 + \theta)} - \ln P_D - \delta.$$

Differentiating with respect to $\ln P_D$ and δ yields:

$$\frac{d \ln C_D^{\text{unanchored}}}{d \ln P_D} = -1, \quad \frac{d \ln C_D^{\text{unanchored}}}{d \delta} = -1.$$

The first derivative is the price elasticity of real tourism demand, indicating that a 1% increase in the actual tourism price P_D leads to a 1% decrease in real tourism demand.² The semi-elasticity $\frac{d \ln C_D^{\text{unanchored}}}{d \delta} = -1$ captures the additional negative impact from behavioural inflation, pessimism, or expectation shocks.

Therefore, the effect of actual inflation on tourism demand is:

$$\frac{\partial C_D^{\text{unanchored}}}{\partial P_D} = -\frac{\theta I}{(1 + \theta)P_D^2 e^\delta} < 0,$$

² The elasticity $\frac{d \ln C_D^{\text{unanchored}}}{d \ln P_D} = -1$ quantifies how responsive demand is to actual price increases.

And the magnitude of this derivative increases with δ . Hence, the unanchored regime induces greater sensitivity of tourism demand to price-level movements, amplifying volatility.

2.3 Calibration

To illustrate the quantitative implications of the model, we calibrate the key parameters using plausible values from the tourism and macroeconomic literature. The goal is to demonstrate how real tourism demand responds under anchored and unanchored inflation expectation regimes. Table 1 shows the baseline parameter values we set.

From Table 1, we can get the optimal nominal expenditure on tourism is constant and given by:

$$M^* = \frac{\theta I}{1 + \theta} = \frac{0.5 \times 10,000}{1 + 0.5} = 3,333.33.$$

Recall that the real tourism demand is computed as: $C_D^* = \frac{M^*}{P_D^e}$. We then evaluate C_D^* under both expectation regimes which is shown in Table 2.

Table 1: Baseline parameter calibration

Parameter	Description	Value
I	Tourism income (home currency unit)	10,000
θ	Preference weight on tourism	0.5
\bar{P}_D	Anchored expected price level	100
P_D	Actual destination price level (initial)	100
P_D'	Actual price level (post-inflation)	120
δ	Perceived cumulative inflation over horizon h	{0.00, 0.10, 0.25, 0.50}

Table 2 reports how forward-looking inflation expectations affect tourism demand when tourists plan travel over a short horizon. Under anchored expectations ($\delta = 0$), tourists anticipate no change in future prices, and real tourism demand remains stable even after an actual 20% rise in current prices (33.33 to 27.78). By contrast, under unanchored expectations, tourists overestimate future prices by a factor of e^δ , producing nonlinear contractions in expected real demand (e.g., from 26.0 to 21.67 when $\delta = 0.25$). These results confirm that the relevant behavioural margin is expected inflation rather than the contemporaneous price level.

Figure 1 compares the expected real tourism demand derived from C_D^* across anchored and unanchored regimes. The blue dashed line ($\delta = 0$) represents anchored expectations, where tourists forecast stable future prices and demand remains constant at 33.33. The orange curve depicts unanchored expectations, where tourists perceive higher future inflation over the travel horizon. Even modest expectation biases ($\delta = 0.10$) reduce expected real demand to about 30, while larger distortions ($\delta \geq 0.50$)

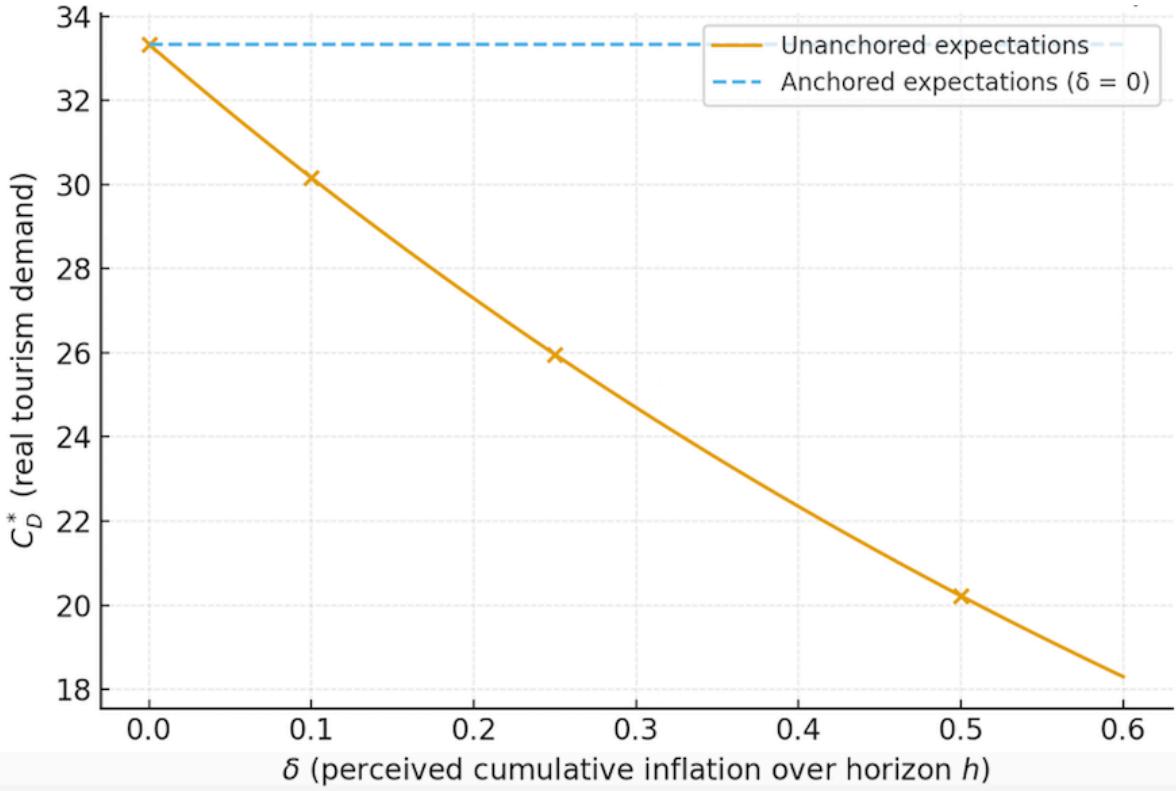
cause steep nonlinear declines below 21. The curvature of the orange line reflects that behavioural over-reaction amplifies perceived inflation risk, not actual price levels—highlighting that anchoring mechanisms work through stabilising expected future price rather than holding current $P_t(D)$ fixed.

Table 2: Real tourism demand under anchored and unanchored expectations

Scenario	$P_t(D)$	δ	C_D^*
Anchored expectations	100	-	33.33
Unanchored (mild)	100	0.10	30.23
Unanchored (moderate)	100	0.25	26.00
Unanchored (strong)	100	0.50	20.22
Anchored (post-inflation)	120	-	27.78
Unanchored (post-inflation, $\delta = 0.25$)	120	0.25	21.67

Note: $P_t(D)$ denotes the current tourism price level; δ is the perceived cumulative inflation over the booking horizon h , such that $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)e^\delta$.

Figure 1: Tourism demand under unanchored vs. Anchored expectations



Note: Real tourism demand C_D^* as a function of perceived cumulative inflation $\delta = \ln\left(\frac{\mathbb{E}_t[P_{t+h}(D)]}{P_t(D)}\right)$.

While our model emphasises short-horizon decision marking—such as booking and expenditure choices made under current information—tourists’ inflation expectations are not assumed to be permanently biased. In practice, expectations are likely adaptive: as

actual inflation stabilises, perceived inflation gradually converges to realised outcomes, reducing the behavioural distortion δ over time. Hence, the temporary decline in tourism demand following an inflation shock would tend to be partially reversed in the medium term.³

2.4 Discussion: the role of exchange rate regimes

The baseline model presented in subsections 2.1 to 2.3 implicitly assumes a fixed exchange rate regime or a monetary union between the tourist's home country and the destination. This simplification (which can be interpreted as normalising the relevant nominal exchange rate to unity) allows us to isolate the direct behavioural expectations channel. We also acknowledge an important implication of the monetary-union interpretation: persistent, aggregate inflation differentials are less likely under a common monetary policy. However, the object that matters for travel decisions is the expected price of tourism services at the destination—largely non-tradables such as accommodation, local transport, and hospitality—so sectoral and local price pressures can still differ across destinations even within a currency union.

When exchange rates are flexible, the cost faced by an international tourist depends jointly on the destination's price level and the nominal exchange rate. To avoid confusion about signs, we define the nominal exchange rate as:

$$S_t \equiv \text{units of destination currency per unit of home currency}.$$

Under this convention, an increase in S_t corresponds to a depreciation of the destination currency (the home currency buys more destination currency). Let $P_{t+\tau}$ denote the destination tourism price level in destination currency, and $P_{t+\tau}^e$ the tourist's expected price level at the time of travel. The expected home-currency price of one unit of the destination tourism basket is therefore:

$$P_{t+\tau}^{h,e} = \frac{P_{t+\tau}^e}{S_{t+\tau}^e},$$

where $S_{t+\tau}^e$ is the expected nominal exchange rate over the booking horizon τ . Accordingly, the tourism quantity implied by nominal tourism spending x (in home currency) becomes:

$$T = \frac{x}{P_{t+\tau}^{h,e}} = \frac{x S_{t+\tau}^e}{P_{t+\tau}^e}.$$

The relevant “real exchange rate” concept for tourists is the expected relative price of the destination tourism basket in home consumption units,

³ Incorporating such adaptive learning dynamics would further strengthen our model's realism but does not alter its central insight—that weakly anchored expectations magnify short-term volatility in international tourism demand.

$$q_{t+\tau}^e = \frac{P_{t+\tau}^e}{S_{t+\tau}^e P_t^h},$$

where P_t^h is the home-country price level.

This setup makes the textbook stabilisation channel transparent. Under efficient markets and rational expectations, higher destination inflation (a rise in $P_{t+\tau}^e$) tends to be accompanied by destination-currency depreciation (a rise in $S_{t+\tau}^e$), so that the ratio $P_{t+\tau}^e/S_{t+\tau}^e$ —the home-currency tourism price—moves much less than destination inflation alone. In the knife-edge case where expected destination inflation and expected destination depreciation move one-for-one, the home-currency price $P_{t+\tau}^{h,e}$ is approximately unchanged, so the tourist's real decision is naturally stabilised.

Our behavioural point is not that this arithmetic fails, but that the offset need not operate fully once expectations are imperfect and credibility is low. In our framework, unanchoring is modelled as a distortion in the expected destination price level, $P_{t+\tau}^e = P_{t+\tau} \exp(v)$, with $v > 0$ capturing perceived cumulative inflation over the horizon. When exchange rates are flexible, tourists also need to form expectations about the nominal exchange rate. A simple parallel representation is:

$$S_{t+\tau}^e = S_{t+\tau} \exp(v_S),$$

where v_S captures the expectation distortion in the nominal exchange rate. Combining the two gives an expected home-currency tourism price:

$$P_{t+\tau}^{h,e} = \frac{P_{t+\tau}}{S_{t+\tau}} \exp(v - v_S),$$

and therefore (using the same logic as Equation (6) in the baseline) real tourism demand becomes:

$$T = \alpha Y \frac{S_{t+\tau}}{P_{t+\tau}} \exp(v_S - v).$$

This expression clarifies the stabilisation case and when it breaks. If the expectation distortions cancel, $v_S = v$, then the tourist's perceived home-currency tourism price is unchanged relative to fundamentals, and the behavioural wedge disappears. In contrast, if tourists overweight inflation news relative to the expected depreciation that would offset it—i.e., $v > v_S$ —then perceived costs still rise in home currency and demand falls more than what a rational-expectations offset would imply.

Moreover, exchange-rate flexibility can matter through an additional behavioural channel that is separate from the mechanical price conversion. In low-credibility environments, exchange-rate movements are often salient signals of macro instability and may be associated (in tourists' minds) with payment frictions, pricing uncertainty, or precautionary buffers. A parsimonious way to capture this idea is to allow an extra “risk/uncertainty wedge” $\mu \geq 0$ in the perceived home-currency cost:

$$\tilde{P}_{t+\tau}^{h,e} = \frac{P_{t+\tau}^e}{S_{t+\tau}^e} \exp(\mu),$$

where μ is small under anchored, credible regimes and rises when expectations are de-anchored. Under this formation, even when some nominal depreciation offsets destination inflation mechanically, heightened perceived macro risk can still depress tourism demand via $\exp(-\mu)$. Intuitively, flexible exchange rates stabilise the tourist's decision in the textbook benchmark, but they do not guarantee stabilisation once tourists process inflation and currency signals with bounded rationality, and once exchange-rate volatility itself becomes part of the perceived cost of travelling.

Overall, the exchange-rate extension reinforces the main message of the paper. Under anchored expectations and high credibility, tourists from stable beliefs about both prices and currencies, so the expected home-currency tourism price remains relatively predictable—consistent with Proposition 2.2. Under unanchored expectations, the relevant object is the perceived home-currency tourism price, which can risk because inflation pessimism dominates any expected offset from depreciation ($v > v_S$) and/or because macro instability raises an additional perceived-risk wedge ($\mu > 0$). Therefore, exchange-rate flexibility is a potential stabiliser under credibility, but it need not neutralise the behavioural contraction in tourism demand when credibility is weak.

A further consideration relates to the timing of tourism decisions, as many international tourism services are booked and paid for in advance. When high inflation is anticipated, some tourists may accelerate their bookings to secure current prices—a “buy-now, before it gets worse” response—rather than postponing travel. This behaviour can be integrated within our framework by recognising that pre-payment effectively shortens the expectation horizon τ , since part of the expenditure is locked in at nominal prices before inflation materialises. The corresponding distortion term then becomes smaller, implying a weaker behavioural response to expected inflation. In contrast, for non-prepaid or flexibly priced components such as local food and on-site services, the full expectation distortion still applies.

Our framework can be interpreted as a behavioural open-economy variant of forward-looking models with information frictions (Mankiw and Reis, 2002; Sims, 2003; Gabaix, 2020). By introducing a perceived inflation distortion within tourists' optimisation, the model captures how subjective price expectations interact with exchange rate regimes in shaping real tourism demand. Under flexible exchange rate arrangements, nominal depreciation can partly offset destination inflation in the home-currency tourism price, reducing the pass-through of inflation into perceived travel costs. Conversely, in less credible regimes, tourists may overweight inflation news relative to the expected offset, and may attach an additional risk premium to currency instability, which depresses tourism expenditure. This behavioural channel complements standard small-open-economy frameworks (Clarida, Galí and Gertler, 2002; Galí and Monacelli, 2005; Woodford, 2003) by incorporating expectation distortions in the spirit of Coibion and Gorodnichenko (2015a) and de Grauwe (2012).

3. Model Extension

We now extend the baseline framework to incorporate a simple general-equilibrium feedback between tourism demand local price dynamics. The purpose of this extension is not to model market clearing in full, but to capture how inflation inertia and cost pass-through can interact with tourists' inflation expectations.

It is important to note that the role of cost rigidity in this extended model differs. In the present framework, sluggish price adjustment dampens the transmission of inflation-expectation distortions into effective tourism prices, thereby attenuating the contraction in real tourism demand. This stabilising role of nominal rigidity reflects the modelling of price feedback as a partial-adjustment process rather than a contemporaneous cost pass-through.

3.1 Set up

Consider a small open economy that produces two goods: a tourism good and a non-tourism good. Foreign tourists allocate income between domestic consumption and tourism services in the destination country. Expectations about the destination's future prices continue to follow the two regimes defined earlier: i) anchored expectations: where inflation is credibly constrained and $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)$; and ii) unanchored expectations: where tourists extrapolate recent inflation overreact to price signals, forming $\mathbb{E}_t[P_{t+h}(D)] = P_t(D)e^\delta$, with $\delta > 0$ denoting expectation distortion.

Unlike the baseline model, the price of tourism services is now endogenously determined by a sluggish cost-adjustment mechanism rather than fixed exogenously. Specifically, the short-run price level evolves as:

$$P_D = \bar{P}[1 + \psi(C_D - \bar{C}_D)], \quad (9)$$

where \bar{P} is the long-run (steady-state) tourism price, \bar{C}_D denotes the equilibrium level of real tourism demand, and $\psi > 0$ measures the degree of cost and price responsiveness to deviations of actual demand from capacity. When $C_D > \bar{C}_D$, congestion and resource pressures push costs upward; when $C_D < \bar{C}_D$, prices adjust only gradually downward because of nominal rigidities, menu costs, and contractual stickiness common in the tourism sector. This formulation ensures that the feedback operates through short-run inflation inertia.

Foreign tourists maximise expected utility:

$$U = (I - M)^{1-\alpha} (C_D)^\alpha, \quad (10)$$

subject to

$$C_D = \frac{M}{\mathbb{E}_t[P_{t+h}(D)]}, \quad \mathbb{E}_t[P_{t+h}(D)] = P_D e^\delta. \quad (11)$$

3.2 Optimization

Substituting (11) into (10) yields the objective function in terms of the choice variable M :

$$\max_M (I - M)^{1-\alpha} \left(\frac{M}{P_D e^\delta} \right)^\alpha. \quad (12)$$

The first order condition gives the optimal nominal tourism expenditure:

$$M^* = \frac{\alpha I}{1 + \alpha}. \quad (13)$$

Substituting M^* into the constraint (11) and using Equation (9), we obtain the equilibrium real tourism demand:

$$C_D^* = \frac{M^*}{\mathbb{E}_t[P_{t+h}(D)]} = \frac{\alpha I}{(1 + \alpha)\bar{P}[1 + \psi(C_D^* - \bar{C}_D)]e^\delta}. \quad (14)$$

Equation (14) defines a fixed-point problem in C_D^* . Multiplying through and rearranging yields a quadratic form:

$$\psi e^\delta (C_D^*)^2 + [\bar{P}e^\delta(1 + \alpha) - \psi \bar{C}_D e^\delta] C_D^* - \frac{\alpha I}{\bar{P}} = 0. \quad (15)$$

The positive root gives the unique interior equilibrium:

$$C_D^* = \frac{-[\bar{P}e^\delta(1 + \alpha) - \psi \bar{C}_D e^\delta] + \sqrt{[\bar{P}e^\delta(1 + \alpha) - \psi \bar{C}_D e^\delta]^2 + 4\psi e^\delta(\frac{\alpha I}{\bar{P}})}}{2\psi e^\delta}. \quad (16)$$

Proposition 3.1 (Existence and uniqueness). *Let $I > 0$, $\alpha \in (0,1)$, $\bar{P} > 0$, $\bar{C}_D > 0$, $\delta \geq 0$, and $\psi \geq 0$. With prices set by:*

$$P_D = \bar{P}[1 + \psi(C_D - \bar{C}_D)],$$

and the optimal tourism expenditure $M^ = \frac{\alpha I}{1 + \alpha}$, the equilibrium real tourism demand C_D^* is the (unique) positive solution to:*

$$C_D [1 + \psi(C_D - \bar{C}_D)] e^\delta = \frac{\alpha I}{(1 + \alpha)\bar{P}} \equiv K > 0. \quad (A1)$$

A unique $C_D^ > 0$ exists for all admissible parameter values.*

Proof. Rewrite (A1) as a quadratic in $C \equiv C_D$:

$$\underbrace{\psi e^\delta C^2}_{a>0} + \underbrace{e^\delta(1 - \psi \bar{C}_D)C}_{b} - \underbrace{K}_{c<0} = 0. \quad (A2)$$

If $\psi = 0$, Equation (A2) reduces to $e^\delta C = K$, so $C_D^* = K e^{-\delta} > 0$ is unique.

If $\psi > 0$: $a > 0$, $c < 0$. Hence the product of the two roots equals $\frac{c}{a} = \frac{-K}{\psi e^\delta} < 0$. Therefore the two real roots have opposite signs. The discriminant,

$$\Delta = b^2 - 4ac = e^{2\delta}(1 - \psi \bar{C}_D)^2 + 4\psi e^\delta K > 0,$$

is strictly positive, so both roots are real. Since one root is negative and the other positive, there is exactly one positive root. Denote it by C_D^* .

Alternatively, define $f(C) = \psi e^\delta C^2 + e^\delta (1 - \psi \bar{C}_D)C - K$. Then $f(0) = -K < 0$ and $\lim_{c \rightarrow \infty} f(C) = +\infty$; with f strictly convex ($f''(C) = 2\psi e^\delta \geq 0$), there is exactly one crossing with the horizontal axis on $C > 0$.

Proposition 3.2 (Comparative statics: expectations depress demand; rigidity attenuates the effect). *Let $C_D^*(\delta, \psi)$ be the unique positive solution to (A2). Then:*

1. *For every $\psi \geq 0$, $\frac{\partial C_D^*}{\partial \delta} < 0$ (inflation-expectation distortion lowers real tourism demand).*
2. *For every $\delta > 0$, $\frac{\partial C_D^*}{\partial \psi} > 0$ (greater cost-feedback rigidity raises equilibrium demand, i.e., attenuates the demand decline caused by δ).*

Proof. Let $f(C, \delta, \psi) = \psi e^\delta C^2 + e^\delta (1 - \psi \bar{C}_D)C - K$. By Proposition 3.1, the equilibrium $C = C_D^*$ satisfies $f(C, \delta, \psi) = 0$ with $C > 0$. The implicit-function theorem applies because:

$$f_C(C, \delta, \psi) = e^\delta [2\psi C + (1 - \psi \bar{C}_D)] = e^\delta D(C, \psi),$$

and at the positive root of a strictly convex quadratic, $f_C > 0$ (the root lies to the right of the vertex). Hence, C_D^* is continuously differentiable in (δ, ψ) and

$$\frac{\partial C_D^*}{\partial x} = -\frac{f_z}{f_C}, \quad x \in \{\delta, \psi\}.$$

(i) Effect of δ .

Compute

$$f_\delta(C, \delta, \psi) = \psi e^\delta C^2 + e^\delta (1 - \psi \bar{C}_D)C = e^\delta \underbrace{[\psi C^2 + (1 - \psi \bar{C}_D)C]}_{N(C, \psi)}$$

At equilibrium $f(C, \delta, \psi) = 0$ implies

$$\psi e^\delta C^2 + e^\delta (1 - \psi \bar{C}_D)C = K > 0 \implies N(C, \psi) = K e^{-\delta} > 0.$$

Therefore $f_\delta = e^\delta N(C, \psi) > 0$, while $f_C = e^\delta D(C, \psi) > 0$. Hence,

$$\boxed{\frac{\partial C_D^*}{\partial \delta} = -\frac{f_\delta}{f_C} = -\frac{N(C, \psi)}{D(C, \psi)} < 0}$$

which proves part (1): higher inflation-expectation distortion reduces equilibrium real tourism demand.

(ii) Effect of ψ .

Compute

$$f_\psi(C, \delta, \psi) = e^\delta [C^2 - \bar{C}_D C] = e^\delta C(C - \bar{C}_D).$$

For $\delta > 0$, the equilibrium satisfies $C_D^* < \bar{C}_D$ (indeed, with $\psi = 0$, $C_D^* = \bar{C}_D e^{-\delta} < \bar{C}_D$; adding rigidity cannot raise C_D^* above \bar{C}_D when $\delta > 0$). Thus, $C(C - \bar{C}_D) < 0$, so $f_\psi < 0$. Because $f_C > 0$, we have:

$$\boxed{\frac{\partial C_D^*}{\partial \psi} = -\frac{f_\psi}{f_C} > 0 \quad (\delta > 0)}$$

which proves part (2): stronger cost rigidity raises C_D^* for a given $\delta > 0$ (i.e., it attenuates the contraction caused by inflation-expectation distortion).

Finally, for completeness, note that when $\delta = 0$ one obtains $C_D^* = \bar{C}_D$ for all $\psi \geq 0$, so $\frac{\partial C_D^*}{\partial \psi} = 0$ at $\delta = 0$, consistent with our model.

Comparative statics imply a clear ranking. To be more specific, for any fixed $\delta > 0$, $C_D^*(\delta, \psi_2) > C_D^*(\delta, \psi_1)$ whenever $\psi_2 > \psi_1$; hence price rigidity dampens the adverse effect of unanchored expectations.

3.3 Calibration

To illustrate the quantitative implications of the cost-feedback extension, we calibrate the model using plausible parameter values consistent with tourism consumption under behavioural inflation expectations. The objective is to show how variations in the expectation-distortion parameter δ and the price-rigidity coefficient ψ jointly determine the equilibrium level of real tourism demand (C_D^*).

We assume a representative foreign tourist with nominal income $I = 10,000$ (home-currency units) and a preference weight $\alpha = 0.5$ for international tourism. The long-run baseline tourism price is normalised to $\bar{P} = 100$, yielding an equilibrium steady-state real tourism demand $\bar{C}_D = 33.33$ when expectations are anchored ($\delta = 0$). The feedback coefficient ψ measures the degree of short-run cost inertia or price rigidity, with values between 0 (perfect flexibility) and 0.02 (high rigidity). The four expectation-distortion values $\delta = \{0.00, 0.10, 0.25, 0.50\}$ represents, respectively, a fully anchored regime, mild deviation from target, moderate unanchoring, and severe inflation pessimism. Table 3 reports the baseline parameterisation.

Table 3: Calibrated parameter values for numerical illustration

Parameter	Description	Value
I	Tourism income (home currency unit)	10,000
α	Preference weight on tourism	0.5
\bar{P}	Long-run baseline tourism price	100
\bar{C}_D	Steady-state real tourism demand	33.33
M^*	Optimal tourism spending	3,333.33
δ	Inflation-expectation distortion	{0.00, 0.10, 0.25, 0.50}
ψ	Cost feedback (price-rigidity) coefficient	{0, 0.005, 0.01, 0.02}

Using Equation (16), we compute C_D^* for each combination of δ and ψ . When $\psi = 0$, price adjust instantaneously and the model collapses to the baseline flexible-price case $C_D^* = \bar{C}_D e^{-\delta}$. Table 4 summarises the equilibrium outcomes.

In the absence of cost feedback ($\psi = 0$), perceived inflation distortion (δ) are transmitted one-for-one into perceived tourism prices, generating a steep and highly nonlinear decline in real tourism demand. As δ increases from 0 to 0.5, equilibrium

demand falls from 33.33 to 20.22, reflecting the full behavioural pass-through of unanchored inflation expectations under flexible prices.

Table 4: Equilibrium real tourism demand C_D^* under varying δ and ψ

δ	$\psi = 0$	$\psi = 0.005$	$\psi = 0.01$	$\psi = 0.02$
0.00	33.33	33.33	33.33	33.33
0.10	30.17	30.58	30.96	31.45
0.25	25.94	26.59	27.11	27.83
0.50	20.22	21.07	21.82	22.95

When $\psi > 0$, prices adjust sluggishly in response to demand fluctuations, which attenuates the transmission of expectation-driven cost shocks into realised tourism prices. As a result, for any given level of δ , equilibrium demand C_D^* is strictly higher than in the flexible-price benchmark. Although tourism demand still declines monotonically with worsening inflation pessimism, the magnitude of the contraction is systematically smaller under greater cost rigidity. For instance, when $\psi = 0.02$, increasing δ from 0 to 0.5 reduces C_D^* from 33.33 to 22.95—corresponding to a 31% decline, compared with a 39% decline under full price flexibility.

These results confirm the analytical comparative statics in Proposition 3.2: while unanchored inflation expectations generate nonlinear demand contractions, cost inertia acts as a stabilising force by smoothing short-run price responses and dampening the behavioural impact of inflation pessimism on real tourism demand.

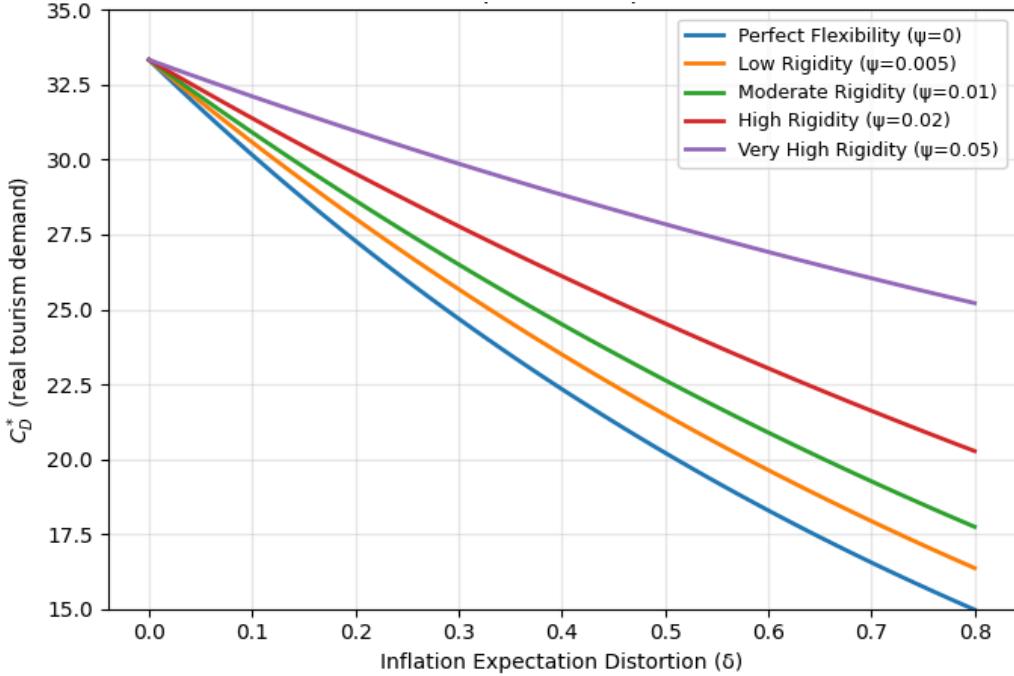
Figure 2 illustrates how equilibrium real tourism demand C_D^* responds to increasing inflation-expectation distortion δ under alternative degrees of price rigidity ψ .⁴ In the benchmark case of perfect price flexibility ($\psi = 0$), expectation distortions are transmitted fully and contemporaneously into perceived tourism costs, generating a sharp and highly nonlinear decline in C_D^* as δ increases. Introducing price rigidity ($\psi > 0$) flattens the demand response: for any given level of inflation pessimism, equilibrium tourism demand is higher than in the flexible-price case, and the slope of the demand curve becomes less steep.

Economically, this pattern reflects the stabilising role of sluggish price adjustment. When prices adjust only gradually, part of the perceived inflation shock is smoothed over time, leading tourists to perceive expected cost increases as less immediate or less persistent. As a result, destinations with greater cost inertia experience smaller short-run contractions in tourism demand for the same inflation-expectation distortion. The vertical distance between the curves therefore measures the degree of attenuation

⁴ We provide additional figures illustrating the nonlinear and proportional demand responses in Appendix.

induced by nominal rigidities, consistent with the comparative statics established in Proposition 3.2.

Figure 2: Demand response to expectation shocks



4. Conclusion and Policy Recommendations

This paper develops a novel theoretical framework to examine how inflation expectations — anchored versus unanchored — influence international tourism demand. By incorporating behavioral macroeconomic elements into a micro-founded model of tourism consumption, we show that subjective price expectations can significantly distort real tourism decisions, even in the absence of large changes in actual destination prices.

The central insight of the model is that expectation formation acts as an endogenous channel of volatility in tourism flows. When inflation expectations are unanchored, tourists overreact to perceived inflation risk, leading to nonlinear and exaggerated reductions in real tourism demand. In contrast, when expectations are anchored — typically through credible and transparent inflation targeting regimes — tourists respond less to transitory price shocks, resulting in more stable tourism flows. Furthermore, when tourism demand endogenously affects local prices, sluggish price adjustment moderates the transmission of expectation shocks, preventing self-reinforcing price-demand spirals. Additionally, as explored in subsection 2.4, considering flexible exchange rates in a behavioral framework may amplify rather than diminish our core results, as expectations of inflation and depreciation can become correlated and compound tourists' perceived risk. In particular, higher perceived inflation reduces tourism demand; however, in the

presence of sluggish price adjustment, the resulting decline in the demand eases cost pressures and slows price growth, partially offsetting the contraction in real tourism demand. These findings underscore the importance of macroeconomic credibility in shaping inflation expectations, which are the primary source of volatility in forward-looking tourism demand. It also highlights that macroeconomic stability—by anchoring expectations—is not merely a backdrop but a core pillar of tourism competitiveness. By integrating behavioral expectations into policy design, destinations can transform inflation credibility into a strategic advantage — turning volatility into resilience.

Our results have clear policy relevance, particularly for tourism-dependent economies in the Global South and emerging markets. First, our analysis provides theoretical support for inflation targeting as not only a tool of macroeconomic stability, but also as a sectoral competitiveness strategy. By reducing inflation volatility and anchoring expectations, central banks can indirectly support inbound tourism by lowering perceived price uncertainty among international travelers. Second, our results have practical implications for crisis management and central bank communications. Specifically, managing expectations is as crucial as managing fundamentals. Tourism ministries and central banks alike should recognize that perceived inflation can erode a destination's attractiveness faster than realized inflation. Third, from a broader policy coordination perspective, our findings call for stronger alignment between tourism strategy and macroeconomic frameworks. While tourism promotion often focuses on marketing and infrastructure, our model implies that maintaining inflation credibility — through credible monetary policy frameworks, forward guidance, and institutional independence — can be an equally important lever for sustaining tourism resilience in uncertain macroeconomic environments. For instance, the Reserve Bank of Australia (RBA)'s transparent inflation reports reduced tourism volatility during the 2022 price surge. Governments can modify consumer price index (CPI) calculations to assign higher weights to tourism-related sectors (e.g., hospitality, airfare, accommodation). In fact, Thailand's central bank already tracks tourism-core inflation separately to guide rate decisions. To mitigate expectation-driven volatility and smooth short-run price movements, destination governments can subsidize off-season hotel operations to maintain idle capacity or allow temporary conversion of residential/office spaces to lodging during demand spikes. Furthermore, to reduce tourists' inflation fears by guaranteeing costs, while stabilizing cash flow for businesses, tax authorities can offer tax breaks to tour operators for contracts locking in prices over 6 months ahead. For example, Maldives' "Fixed-Price Holiday Guarantee" program, where participating resorts receive value-added tax (VAT) exemptions in exchange for price ceilings.

Although the present model abstracts from explicit intertemporal optimisation, its predictions can be interpreted within a multi-period context where travel planning, payment, and consumption occur at different times. In such settings, unanchored inflation expectations may initially stimulate advance bookings as tourists rush to lock

in prices, but this front-loading merely shifts expenditure across periods. Once realised inflation confirms the anticipated rise in costs, overall real tourism activity declines, with the adjustment occurring more gradually in the presence of price rigidity. Conversely, in economies with credible inflation-targeting regimes, anchored expectations prevent both the short-term “booking bulge” and the subsequent contraction, leading to more stable aggregate demand. Thus, our framework should be viewed as representing the expectation-weighted component of forward-looking tourism consumption rather than the full temporal sequence of travel spending. Incorporating explicit intertemporal contracting and price-indexation features offers a promising direction for future theoretical work.

Our study lays the groundwork for a number of promising future research avenues. First, empirical validation of the model’s key predictions could be pursued using bilateral tourism flow data combined with inflation expectation surveys (e.g., surveys at airports). Comparing behavior across countries with varying degree of inflation targeting credibility would offer rich heterogeneity for analysis. Future research can also extend the framework to account for income-tiered demand (e.g., luxury vs. budget tourists). Interdisciplinary applications involving behavioral economics, international marketing, and central bank communication studies could further bridge the gap between tourism and economics and policy-oriented macroeconomics. As inflation volatility continues to characterize the post-pandemic world economy, understanding how tourists from expectations — and how policymakers can shape them — will remain a fertile ground for both theoretical and applied inquiry.

Future empirical research could test the predictions of this model by comparing long-haul and short-haul tourism markets, where the elasticity of demand and the degree of expectation anchoring may differ substantially. Evidence from [Vatsa and Balli \(2024\)](#) and [Yong \(2014\)](#) suggests that realised inflation has only a limited statistical impact on long-haul tourism flows, particularly for high-income destinations such as New Zealand and European economies. Our framework provides a behavioural explanation for this finding. In particular, even when observed price elasticity is low, unanchored inflation expectations can still depress perceived affordability and booking intentions. Hence, a natural empirical extension would be to examine whether inflation expectation shocks exert stronger effects on short-haul or price-sensitive segments, thereby validating the model’s theoretical mechanism across diverse tourism markets.

Disclosure statement:

No potential conflict of interest was reported by the author(s).

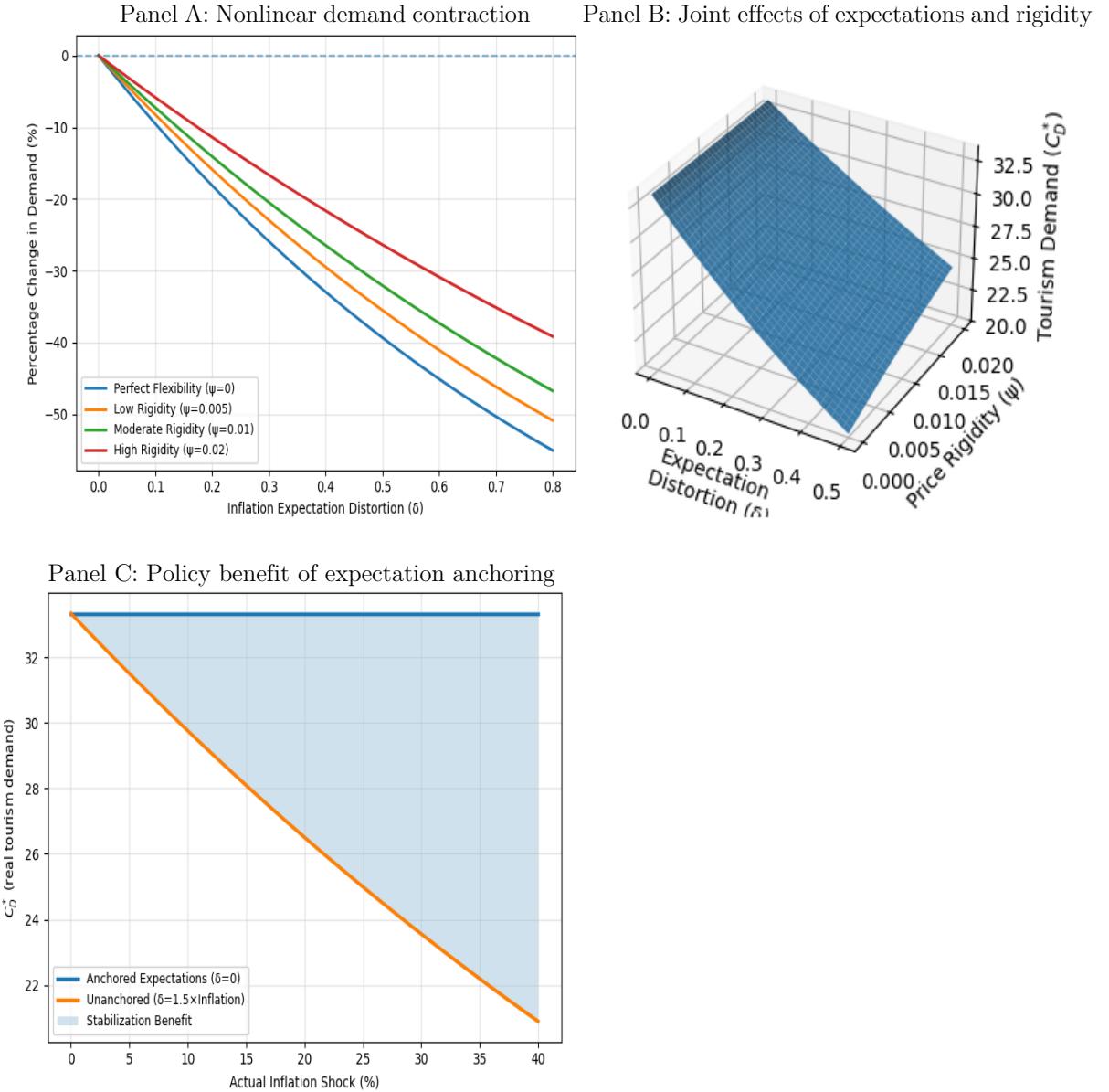
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Appendix

Figure A1: Tourism demand under inflation uncertainty: the stabilising role of price rigidity and expectation anchoring



Panel A of Figure A1 plots the percentage deviation of real tourism demand from the anchored-expectations benchmark ($\delta = 0$) as inflation pessimism intensifies. All curves exhibit pronounced convexity, indicating that demand responses are nonlinear: small deviations from anchored expectations have limited effects, whereas large expectation distortions lead to disproportionately large contractions in tourism demand. Importantly, higher values of ψ shift the curves upward, implying that price rigidity systematically reduces the proportional demand loss associated with any given

expectation shock. Thus, while unanchored expectations generate nonlinear contractions, cost inertia mitigates their quantitative impact.

Panel B presents a three-dimensional representation of equilibrium tourism demand as a joint function of inflation-expectation distortion δ and price rigidity ψ . The surface sloped downward along the δ dimension, confirming that worsening inflation misperceptions depress tourism demand. Along the ψ dimension, however, the surface slopes upward and flattens, illustrating that greater cost rigidity partially offsets the contraction induced by expectation shocks. This panel visually summarises the key interaction in the model: behavioural distortions drive demand volatility, while nominal rigidities act as a stabilising buffer.

Taken together, Panels A and B encapsulate the central comparative-static result of the extended model. Inflation-expectation distortions unambiguously reduce real tourism demand, but the magnitude of this effect is inversely related to the degree of cost rigidity in the destination economy. Under perfect price flexibility, expectation distortions are transmitted one-for-one into perceived prices, resulting in high short-run volatility. By contrast, when prices and wages adjust slowly, perceived cost shocks are smoothed over time, attenuating the fall in effective tourism demand.

Panel C compares equilibrium tourism demand under anchored and unanchored expectation regimes in response to rising actual inflation. When expectations are anchored ($\delta = 0$), tourists anticipate price stability, and tourism demand remains largely insulated from realised inflation shocks. When expectations are unanchored, tourists systematically overreact—perceiving future inflation to exceed its realised rate—leading to a pronounced decline in C_D^* . The shaded area between the two curves quantifies the stabilisation benefit of expectation anchoring: it represents the tourism demand preserved when policy credibility prevents inflation overreaction.

Economically, Panel C highlights that credible monetary frameworks and transparent communication mitigate the behavioural transmission of inflation shocks into tourism markets. By anchoring expectations, policymakers can prevent temporary inflationary pressures from triggering disproportionate contractions in international travel and tourism expenditure.