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# Host type and pricing on Airbnb: Seasonality and perceived market power\*

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8th September 2021

#### Abstract

The literature on short-term rental emphasises the heterogeneity of the hosts population. Some argue that professional and opportunistic hosts differ in terms of their pricing strategy. This study highlights how differences in market perception and information create a price differential between professional and non-professional players. Proposing an original and accurate definition of professional hosts, we rely on a large dataset of almost 9,000 properties and 73,000 observations to investigate the pricing behaviour of Airbnb sellers in Corsica (France). Using OLS and the double-machine learning methods, we demonstrate that a price differential exists between professional and opportunistic sellers. In addition, we assess the impact of seasonality in demand on the size and direction of this price differential. We find that professionals perceive a higher degree of market power than others during the peak season and it allows them to enhance their revenues.

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Abstract

The literature on short-term rental emphasises the heterogeneity of the hosts population. Some argue that professional and opportunistic hosts differ in terms of their pricing strategy. This study highlights how differences in market perception and information create a price differential between professional and non-professional players. Proposing an original and accurate definition of professional hosts, we rely on a large dataset of almost 9,000 properties and 73,000 observations to investigate the pricing behaviour of Airbnb sellers in Corsica (France). Using OLS and the double-machine learning methods, we demonstrate that a price differential exists between professional and opportunistic sellers. In addition, we assess the impact of seasonality in demand on the size and direction of this price differential. We find that professionals perceive a higher degree of market power than others during the peak season and it allows them to enhance their revenues.

## 1 Introduction

- 19 It is of interest to examine on-line rental platforms such as Airbnb from the economic view-
- 20 point since they are markets in which differentiated goods are sold by heterogeneous sellers.
- 21 That is, not only do different products coexist on the platform at different prices due to
- 22 product differentiation but homogeneous products are also potentially sold at different prices
- <sup>23</sup> due to heterogeneity between sellers. The literature emphasises that, like other markets of
- the 'peer-to-peer economy', the supply side often consists of both professional (experienced)

players practising a 'profit-oriented supply' economy and non-professional (inexperienced)
 players oriented to a sharing-oriented supply (Ke 2017, Krause & Aschwanden 2020, Li et al.
 2016)

As they differ both in their motivations and in their expertise, these two types of actors 28 may adopt very different behaviours. Some authors argue that professional hosts vary their prices more (Gibbs, Guttentag, Gretzel, Yao & Morton 2018, Kwok & Xie 2019, Li et al. 2016), obtain Superhost status more easily (Gunter 2018), and have better occupancy rates 31 and better incomes (Kwok & Xie 2019, Li et al. 2016). Furthermore, Leoni (2020) and Li 32 et al. (2016) have empirically demonstrated that the most "expert" hosts (those who manage the most listings or the oldest players in the market) have the highest survival rates. This is thanks in particular to their managerial skills and especially to the implementation of dynamic pricing. The relationship between prices and professionalisation seems to depend on the market and context. In their study of five Canadian cities, Gibbs, Guttentag, Gretzel, Morton & Goodwill (2018) reveal that professionals charge higher prices in Montreal alone. Furthermore, over 33 cities worldwide, Wang & Nicolau (2017) found a positive relationship between the price and the number of listings. Conversely, in the Hong Kong market (Cai et al. 2019) or in New York City (Deboosere et al. 2019), professional hosts are shown to charge lower prices than non-professionals. Finally, Li et al. (2016), who examined the Airbnb market in Chicago, do not find a relationship between the price level and the degree of professionalisation.

Besides the heterogeneity of actors on the supply side, the accommodation and tourism industries are also marked by strong seasonality. However, as Magno et al. (2018) or Faye (2021) argue, most empirical studies on pricing offer a static view. Only a few studies consider the seasonality of demand. These latter studies show that prices charged by Airbnb hosts are positively correlated with the level of market demand, being higher in peak seasons (Aznar et al. 2018, Falk et al. 2019, Magno et al. 2018). Examining month-to-month variation, Deboosere et al. (2019) find a significant impact of seasonality on the price per

night and revenue of Airbnb listings in NYC. The hosts adapt their prices to the holiday calendar and therefore to seasonal demand, applying higher rates during the long summer holidays than during shorter winter holiday periods. However, the response of Airbnb hosts to seasonal fluctuations is not homogeneous. It has been observed that most hosts do not practice dynamic pricing and therefore forego revenue opportunities (Chen & Xie 2017, Gibbs, Guttentag, Gretzel, Yao & Morton 2018, Li et al. 2016). Indeed, hosts who adjust their prices more frequently, upwards and/or downwards, improve the revenue performance of their listings (Kwok & Xie 2019, Oskam et al. 2018).

Taking these two aspects into account, hosts heterogeneity, and seasonal variations in
demand, we focus on the pricing decision of Airbnb hosts and seek to understand to what extent professional players in the short-term rental market adopt significantly different pricing
strategies compared to the rest of the hosts population.

Pricing is certainly one of the most important business practices for hospitality professionals. While some sharing economy platforms, such as Uber or Lyft, impose their prices on supplier-side users, short-term rental platforms leave the pricing to the host, possibly using a pricing tool (Gibbs, Guttentag, Gretzel, Yao & Morton 2018). The possibility for the hosts to set their own prices implies that they must summarise the characteristics of their accommodation, a relevant estimate of demand and, lastly, have a good knowledge of the market in which they operate. As a result, prices and pricing strategies have been the subject of increasing interest among scholars. According to the literature reviews in Dann et al. (2019) and Guttentag (2019), more than 10% of the academic work on Airbnb is devoted to the issue of pricing.

Our analysis relies on the hedonic pricing model (Rosen 1974), which is the workhorse tool for analysing the determinants explaining market prices. In recent years, this model has been mobilised by a few authors to examine the prices charged by Airbnb's suppliers.

<sup>&</sup>lt;sup>1</sup>The efficiency of dynamic pricing strategies is a general feature of the accommodation industry. In their study on 17 european cities, Abrate et al. (2019) show that hotels practicing dynamic pricing significantly improve their revenue.

2017, Deboosere et al. 2019, Gibbs, Guttentag, Gretzel, Morton & Goodwill 2018, Lorde et al. 2019, Wang & Nicolau 2017), Europe (Benítez-Aurioles 2018, Chica-Olmo et al. 2020, Dudás et al. 2019, Lladós-Masllorens et al. 2020, Magno et al. 2018, Teubner et al. 2017, Wang & Nicolau 2017), Oceania and Asia (Cai et al. 2019, Wang & Nicolau 2017). All 81 the hedonic studies have shown the permanence of certain price determinants, whatever the market. The prices charged by hosts are systematically higher when the accommodation 83 offers greater privacy (accommodation rented in full and/or not shared with other guests), when it is larger, or when it is located closer to the city centre or tourist attractions. The amenities have an upward influence on the prices charged by hosts since better amenities imply a higher price. However, their effect on prices varies according to the context and the 87 situation. The impact of free parking will be all the greater in metropolitan areas (Gibbs, Guttentag, Gretzel, Morton & Goodwill 2018, Dudás et al. 2019). In the Caribbean, parking is casual everywhere, and air conditioning is one of the amenities most frequently requested by guests (Lorde et al. 2019). 91 Our approach improves on previous works in three main respects. First, we not only 92 estimate how prices differ with respect to the period and the host type, but also how the difference in prices, if any, between opportunistic and professional hosts varies with the period. We are not aware of any study performing that kind of estimation. The closest analysis to ours (Deboosere et al. 2019) concentrates on the variations of prices between hosts and seasons, but not on their interaction. Second, we provide a characterisation of the host status that differs from the literature and can be argued to be more accurate. To evaluate the degree of professionalism of an Airbnb market, many authors use a supply indicator, the number of listings provided by the hosts. In most of destination market studies, 100 a host is considered as a professional when they list more than one listing (Dredge et al. 2016, 101 Gibbs, Guttentag, Gretzel, Morton & Goodwill 2018, Gurran & Phibbs 2017, Kwok & Xie 102 2019, Li et al. 2016, Magno et al. 2018, Oskam et al. 2018), others use a threshold of two 103

These studies focused on markets in North America (Benítez-Aurioles 2018, Chen & Xie

or three (Schneiderman 2014). To characterise professional hosts, rather than relying on
the number of listings marketed, we have compiled a dataset in which professional hosts
are those registered with the French Trade and Companies Register (RCS), which allows
to unequivocally ensure their professional status. Finally, on the methodological side, we
take advantage of a recent statistical method, double-machine learning (Chernozhukov et al.
2018), that provides more robust estimates to model misspecification than the standard
ordinary least squares (OLS) analysis, used in most of the aforementioned hedonic pricing
studies.

Using a large dataset of almost 9,000 properties and 73,000 observations of Airbnb sellers in Corsica (France) in 2017, we test the hypothesis that a price differential exists between professional and opportunistic sellers. Furthermore, we explore the source of this differential by examining the impact of seasonality in demand on the size and direction of the price differential.

Our findings reveal that, on average, professional sellers charge prices about 9% higher than opportunistic hosts. Furthermore, accounting for seasonality, we demonstrate that this positive price differential exists and is very large during the peak season, culminating at +24% but vanishes off-peak. These results suggest that professional sellers perceive a higher degree of market power than opportunistic sellers during the peak season, while perceived market power falls dramatically during the low season. This difference in pricing strategies translates into higher revenue for the professional hosts, who manage to generate almost 800 € more revenue in August for a comparable listing.

The remainder of this paper is organised as follows. Section 2 presents a simple theoretical model and our hypotheses. Section 3 describes the dataset and our empirical strategy. The results are detailed in sections 4 and 5. Section 6 proposes two robstness checks while section 7 draws some conclusions and discusses limitations and potential extensions of our work.

# <sup>129</sup> 2 Theoretical background

A key feature of short-term rental platforms is the existence of a set of close substitutes 130 competing with the property offered by a given host. Hosts charging too high a price will 131 not be able to rent their property even once. Conversely, if hosts charge too low a price, 132 they will attract many consumers, but this behaviour is not economically efficient as they 133 could increase their profit by raising the rental price. In fact, the short-term rental market 134 structure clearly corresponds to monopolistic competition, as defined by Chamberlin (1933). 135 Hosts face a decreasing demand curve for their properties and, as a consequence, benefit 136 from a certain degree of market power that depends on the price elasticity of demand. A host facing a highly elastic demand cannot set a high price because any small change in price would cause a large decline in demand and profit. Conversely, a host facing a rather 139 inelastic demand curve is going to charge a higher price since the rise in price will only cause 140 a relatively small drop in demand. In this case, the host is going to charge a price that is 141 higher than the competitive price and enjoy an economic profit. 142

The demand curve faced by a given host is typically unobserved. When setting the rental 143 price, hosts must therefore imagine an expected demand curve relying on their knowledge 144 of the market and personal beliefs. Let us consider two different hosts, i and j, proposing 145 two perfectly identical properties and sharing the same marginal and average cost functions. 146 They differ in their perception of the demand side and are characterised by different expected 147 demand curves. Host i perceives the demand as more elastic than host j. Analysing the same 148 market as host i, host j perceives a higher degree of market power and will rent identical 149 properties at higher prices.<sup>2</sup> 150

We hypothesise that opportunistic hosts have a limited knowledge (sometimes no knowledge at all) of the market. As acknowledged by Airbnb itself on its website, setting a correct
price is a challenging task for a host due to the amount of information one has to gather

<sup>&</sup>lt;sup>2</sup>Note that the coexistence of different prices for identical properties could also arise from a difference in marginal costs. The host characterised by the highest marginal cost will charge a higher price.

<sup>&</sup>lt;sup>3</sup>https://blog.atairbnb.com/smart-pricing/

and process to forge a satisfying representation of the market. This information acquisition process is costly and casual hosts may not find it worth investing in.

Conversely, professional players are not looking for side revenues but need to generate significant profits. It implies that they develop a more accurate personal knowledge of the market than casual hosts and will use it to maximise their profit. Since the degree of market knowledge of a professional is higher, their perception of demand is different. When professionals perceive a higher degree of market power, they will charge higher prices and conversely if they perceive that demand is very elastic, they will set lower prices.

Furthermore, when markets are characterised by important seasonal fluctuations in demand, hosts have to adjust their expectations and pricing strategy accordingly. Typically, during the peak season and due to the relative scarcity of supply, guests may have more difficulties to find alternative opportunities of lodging, leading to a larger elasticity of demand. This implies that both the size and the direction of the price differential between professionals and non-professionals is likely to vary over time.

In this article, we aim at testing whether professional hosts indeed have a better perception of the degree of market power than non-professionals. This should translate into
different prices on average. Furthermore, this differential should vary over the year, depending on the characteristics of demand. Finally, this difference in pricing strategies should
materialise into larger revenues for professionals. The remainder of the paper is therefore
based on the following three hypotheses:

H1: On average, a price differential exists between professional and non-professional players.

H2: The size and direction of this price differential may vary according to seasonal fluctuations in demand.

H3: This price differential allows professional hosts to generate more revenue.

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# <sup>179</sup> 3 Empirical strategy and data

We focus on the Mediterranean island of Corsica, France, which is a popular destination 180 with strong tourism seasonality. Corsica has 326,000 inhabitants and welcomes an estimated 181 2 million tourists annually. A total of two-thirds of the visitors come from France, the 182 remainder are mainly Italian and German. The island is one of the most popular tourist 183 destinations in France. Thus, according to official data (INSEE 2018), 3.27 million overnight 184 stays were registered in 2017 in the hotel sector, with total tourism expenditure amounting 185 to 2.5 billion euros a year, one-third of the regional GDP. Furthermore, tourism flow is highly 186 seasonal, as represented in Figure 1. Tourism frequentation is concentrated between April 187 and September, with a peak season in June, July, and August. According to the official 188 survey by the French Statistical Institute and Corsican Tourism Agency (INSEE 2018), the 189 island received, in 2017, 400,900 visitors during the peak day of the tourism season, more 190 than doubling its resident population. 191

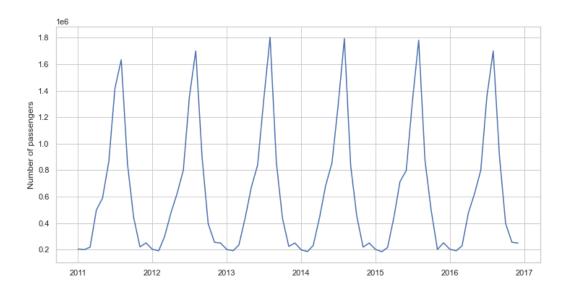


Figure 1: Monthly passengers flow in Corsica between 2011 and 2016, from ORTC 2016, https://www.data.gouv.fr/en/datasets/trafic-mensuel-de-passagers-dans-les-ports-et-aeroports-corses-entrees-sorties-cors/

#### 192 3.1 Description of the sample

The main data are provided by AirDNA, a commercial company that collects short-term vacation rental data. It covers the entire Airbnb listings population of Corsica for the period from September 1, 2016 to August 31, 2017. The data for this study are aggregated at the month level. After cleaning the original dataset, we obtain a sample of 72,986 prices associated with 8,998 listings.<sup>4</sup>

In the following sections, we describe the variables used in our statistical analysis.

#### 199 3.1.1 Outcome and explanatory variables

We seek to understand the difference in pricing between professional and non-professional hosts, as well as the difference in revenue. The dependent variables in our regressions are prices and revenue. Prices are given by the average daily rate (ADR), that is, the mean over the month of the observed daily prices. Monthly revenues are obtained by taking the sum of prices over the month for the days where a reservation occurred.

We define our main explanatory variable of interest, Pro, as a dummy variable that 205 takes the value 1 if the owner of a listing is a professional and 0 otherwise. We define a professional as a host managing more than two listings and that is registered with the 207 French Trade and Companies Registry, the RCS. The method for identifying hosts registered 208 with the RCS first consists of an analysis of the host's Airbnb profile using the unique 200 host ID generated by Airbnb. Indeed, as Ke (2017) has already highlighted, professionals 210 frequently use the name of their company in the description of their profile and/or use the 211 logo of their company as a profile picture. In this way, hosts belonging to an identified 212 company are determined. The others were subject to a complementary search based on 213 the image recognition of their listings. This allowed, via their listing portfolio, to identify 214 the compagny's website and to exploit their legal informations. Finally, the company was 215

<sup>&</sup>lt;sup>4</sup>Listings that did not carry out any transactions during the period under consideration have been removed. Furthermore, observations with no availability and no revenue in a given month, considered to be inactive, have also been dropped.

searched, on the basis of their name or registration number, in the public database of the RCS via the institutional search tool Infogreffe. (https://www.infogreffe.com/recherche-siret-entreprise/chercher-siret-entreprise.html).

The mean ADR across all listings and all months is €131.94 but, as shown in figure 2, it varies significantly over the year, denoting a clear seasonal phenomenon due to the arrival of a large number of tourists during the summer season. The figure also displays substantive differences between the prices charged by professionals and non-professionals, with the former charging higher prices during the summer.

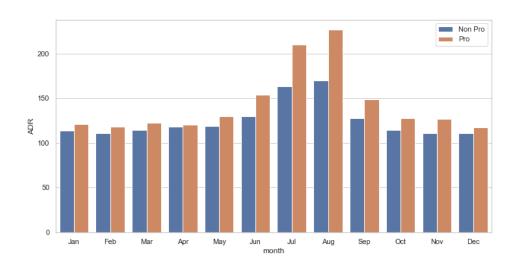


Figure 2: Average price per night and per month on Airbnb

#### 224 3.1.2 Control variables

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The dataset provides information related to both the listings and the hosts. A first set of variables deals with attributes and reputation of the listings. A second set of variables is related to host attributes. In addition, some variables make it possible to account for the rental policy defined by the host. Finally, we have constructed a variable that provides information about the location of the listing. These variables are summarised in Table 1 and described below.

Listing attributes	Listing reputation	Hosts attributes	Rental policy	Location
ListingAge PropertyType ListingType Bedrooms Bathrooms MaxGuests NumberofPhotos Amenities	OverallRating	ResponseRate ResponseTime Superhost	CancellationPolicy MinimumStay InstantbookEnabled	Hex

Table 1: Control variables used in regressions

- Listing attributes and reputation For each listing, identified by a property id, the following information is provided:
- The listing age (ListingAge), which is the difference measured in months between the scraping date and the date of creation of the listing.
- The property type (PropertyType), which indicates whether the property is an apartment, a house, or something else.
- The listing type (ListingType) distinguishes between entire homes or apartments, private rooms, and shared rooms.
- The number of bedrooms (Bedrooms) and bathrooms (Bathrooms).
- The maximum number of guests (MaxGuests) the listing can accommodate.
- The number of photos (Number of Photos) associated to the listing.
- The overall rating (OverallRating) of the listing, a scale variable from 1 to 5.
- A large set of dummy variables for the amenities.

Hosts attributes We use three variables for characterising the hosts. Information on how fast and how often the host responds to a guest enquiry is provided by the response rate (ResponseRate), the percentage of time a host responds to potential guests within 24 hours, and the response time (ResponseTime), the average number of minutes it takes a host to respond to a new booking enquiry. The dummy variable Superhost tells us if the host has been awarded with this quality badge from Airbnb.

The hosts may choose to use a number of options related to the rental Rental policy 250 conditions of the property. For example, hosts may decide to impose a minimum number of 251 renting days to avoid too frequent a turnover between guests. This information is provided 252 by the minimum stay variable (MinimumStay). Furthermore, because Airbnb is a sharing 253 platform, the hosts can decide whether to accept or not a given guest. However, the hosts have the possibility to automatically accept any guest enquiry by enabling the instant booking option (InstantbookEnabled). This variable is a dummy that takes a value of 1 when the option is enabled. Finally, a key rental variable is the cancellation policy (Cancellation-257 Policy). Airbnb provides the hosts with three basic options: strict, flexible, and moderate. 258 When the chosen option is strict, the guest has the possibility to cancel the reservation for 250 free only during the first 48 hours and provided it is at least 14 days before the booking 260 dates. Under the moderate policy, it is possible to cancel the reservation up to five days 261 before the booked dates. Flexible policy makes it possible to cancel for free 24 hours up to 262 arrival. In addition, Airbnb proposes two very strict policies: Strict30 and Strict60. These 263 are offered to hosts connected to the platform via software, in general professional players. 264 Cancellation is possible only 30 or 60 days before arrival, and only 50% of the paid price is 265 refunded to the guest.

Location The original dataset contains variables that account for the location of the listings. However, due to its peculiar insular geography, these variables may be insufficient in
the case of Corsica. For instance, if we used the city in which the listing is located to account

for the impact of space on price, we could observe inconsistent results due to the fact that, in
the same city, some places are very attractive for tourists (the seaside) while others are not
due to accessibility problems. We have therefore developed an original but simple solution.
Using geographical information systems (GIS), the area of Corsica has been divided in 479
hexagons of 10km<sup>2</sup>, with each listing being associated to a unique hexagon, on the basis of
geographical coordinates provided for each property ID. The qualitative variable *Hex* with
479 levels has been added to our model to account for spatial fixed effects.

#### 277 3.2 Methodology of the study

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Regarding the methodology, since we examine the pricing strategy of professional hosts on Airbnb, a natural starting point is the hedonic price model proposed by Rosen (1974). The general idea of this model is that the price of a differentiated good, such as housing, is a function of its intrinsic (number of rooms, surface, etc.) and extrinsic (attractiveness of the 281 neighbourhood, etc.) characteristics. This model is commonly used to estimate consumers' 282 willingness to pay. We use this method to estimate the willingness to accept of Airbnb hosts 283 since, as outlined in section 2, the price is chosen by the seller (the host). The originality of 284 our approach lies in the fact that we focus on both the role of seasonality and the host type 285 for the pricing strategy. To account for seasonality, we introduce the variable Month, that 286 takes values ranging from 1 to 12. 287

The model we want to estimate takes the following general form:

$$Y_{im} = \theta_m Pro_i + g(ListAttr_i, HostAttr_i, RentPol_i, Hex_i, Month) + \epsilon_{im}. \tag{1}$$

where i corresponds to the property and m corresponds to the period (month), Y is the price (expressed in logarithm) or revenue, and  $ListAttr_i$ ,  $HostAttr_i$ ,  $RentPol_i$  represent the listing attributes and reputation, the host attributes, as well as the rental policy variables, respectively. The effect of interest is captured by the term  $\theta_m$ , which measures the impact

of the host status (professional vs. non-professional) on prices; dependence on m clarifies that we allow this effect to vary with time. The function g is a general function, possibly non-linear, of the control variables.

In a first specification, we assume that this function is linear:

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$$g(.) = Cons + \beta_{la}ListAttr_i + \beta_{ha}HostAttr_i + \beta_{rp}RentPol_i + \gamma_{Hex_i} + \gamma_m.$$

Under this specification, equation (1) is estimated using OLS, with clustered standard errors to account for serial correlation.

We consider two cases. In the first,  $\theta_m = \theta$ , that is, there is no variability in the effect 299 of the host status (professional vs. non-professional) on prices. This first model (Model 1) 300 provides us with an estimation of the effect, if any, of the host status on prices, so that 301 we obtain some answers to validate H1. However, the aim is to understand not only if the 302 pricing strategy of professional players differs from that of non-professional players (H1) but 303 also to understand if and how this difference is affected by seasonal fluctuations in demand 304 (H2). This is why we implement, in a second step, the estimation of a model in which  $\theta_m$  is 305 allowed to vary with m (Model 2). It tells us how the difference in pricing changes over the 306 year between professional and non-professional hosts. Technically, this is done by creating 307 an interaction variable between the variables *Month* and *Pro*. 308

We then consider a second specification in which g(.) is a general function of the control variables. This allows us to check the robustness of the linear model.<sup>5</sup> We adopt the doublemachine learning (DML) approach developed by Chernozhukov et al. (2018). Put simply,
this method consists of computing, in a first step, a prediction of the dependent (Y) and
treatment (Pro) variables through a machine learning (ML) algorithm. In a second step,
the residuals of the dependent variable (difference between the actual and predicted values
of this variable) are regressed on the residuals of the treatment variable.

<sup>&</sup>lt;sup>5</sup>It is well known that the OLS estimator may be biased in the case where g(.) is misspecified (see, e.g., Robinson (1988) and the references therein).

# 316 4 Effect of professionalisation on prices

This section presents the results of our econometric study to assess the validity of hypotheses
H1 and H2 presented in section 2. First, we detail the results of the baseline OLS specification. Then, we discuss the impact of the inclusion of variable interacting time and the type
of host. Finally, we present the results obtained when adopting the DML approach.

#### $_{321}$ 4.1 OLS estimation

#### 322 4.1.1 Results from the baseline model (Model 1)

As explained above, we start by estimating a simple OLS model in which the explained variable is the natural logarithm of the average daily rate. Results from the baseline specification are summarised in column 'Model 1' of tables 2 and 3 in appendix 7. The explanatory variables of interest are Pro and each of the twelve months of the year. Nonetheless, before focusing on these variables, some general comments are necessary.

In this specification, the model includes a very large number of right-hand variables (555), which are presented in section 3.1.2.

The global fit of the model is very good, with an  $R^2$  of 0.693. This does not really come at a surprise since the total number of explanatory variables is high. Nonetheless, it means that our model accounts for most of the variability in rental prices.

It should also be noted that the most significant amenities (see Table 3) and those with the larger positive effect on prices are, to some extent, related to luxury. For example, with a coefficient of 0.190, the presence of a pool in the property increases the price by around 21% ceteris paribus. The same holds for the presence of a jacuzzi, which increases the price by 13.3%, an air conditioner (+6%), or a dryer (+10.5%).

Furthermore, as expected, entire homes are much more expensive than private rooms (-20.4%) or shared rooms (-43.2%) ceteris paribus. Some property types are also shown to

<sup>&</sup>lt;sup>6</sup>Since the price is in logarithm, the formula  $e^{\alpha} - 1$  is applied to any coefficient  $\alpha$  to obtain the effect in percentage points.

be more expensive than apartments. This is especially the case for guest houses (+26.7%)and bed and breakfasts (+19.8%) that provide the guest with additional services. This is 341 also the case for houses and villas that are respectively 8.4% and 14.2% more expensive than 342 apartments ceteris paribus. The number of bedrooms and bathrooms are also proven to be 343 key determinants of the price since an additional bedroom raises the ADR by 15.5% and an 344 additional bathroom by 13.3%. The reputation has a significant positive impact on the rate 345 since an increment by one point of the rating of a listing leads to a 6% increase in the daily 346 rate. Interestingly, we find that being a Superhost is associated with a slightly lower price 347 (-4%). 348

Let us now consider the impact of seasonality on prices. Our results clearly show that

June, July, August, and September are by far the most significant determinants of prices.

This is no surprise but the impact of the peak season is proven to be very large. The same

property is 19.8% more expensive in June compared to January. The difference amounts

to +48.1% in July and peaks to +54.3% in August. It is noteworthy that the year can

be divided in two parts with February, March, November, and December being similar or

slightly cheaper than January and the rest of the months being more expensive.

Finally, looking at our main variable of interest, Pro, we see that on average, professional hosts ask for higher prices. This variable has a strongly significant coefficient of 0.042: the same property is 4.3% more expensive when listed by a professional host. This result supports our first hypothesis, according to which a price differential exists between professional and non-professional players. More precisely, since the price differential is positive, it suggests that professional hosts tend to perceive a higher degree of market power on average over the year.

#### $_{63}$ 4.1.2 Results from the model with interactions (Model 2)

Results from our baseline specification indicate that professional hosts ask for higher prices and that the peak season is a key determinant of prices. However, at this stage, we do not

know if the pricing behaviour of professional hosts is affected by seasonality. As highlighted in section 2, our hypothesis is that the size and direction of this price differential may vary according to seasonal fluctuations in demand. In other words, the pricing behaviour of professional and non-professional hosts should evolve differently over the year.

To assess the validity of this hypothesis, a set of interaction variables between Pro and
Month are introduced in the previous specification. Since the model is essentially the same,
results for most of the coefficients are only slightly modified.

We now focus on our variables of interest, Pro and Month. In the baseline specification,
Pro was positive and significant. Looking at column 'Model 2' of table 2, it now appears to
be negative. This result must not be misunderstood. It means that professional hosts charge
lower prices than non-professionals for the month of January. To determine if the behaviour
of a professional differs from the behaviour of a non-professional and by how much, one has
to add up the coefficient associated with Pro and that associated with the interaction term
of a given month (other than January).

Monthly effects of the professional status on prices are depicted in Figure 3, together with 95% confidence intervals.

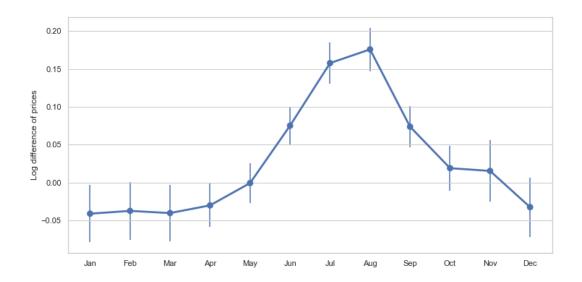


Figure 3: Log difference of prices between professionals and non-professionals in the OLS specification

According to the results of the OLS regression, professional players ask for higher prices 382 than non-professionals between June and September, and for (slightly) lower prices in Janu-383 ary, February, March, April, and December. In May, October, and November, the prices 384 are similar. Specifically and as examples, in August, professional hosts ask for prices that 385 are 19.2% higher for the same property. In March, they ask for prices that are 4% lower.<sup>7</sup> 386 These results support the idea that professional hosts adjust their pricing behaviour 387 across the year and react in a different way to the opportunity created by the peak season. 388 When a high demand is expected, professionals perceive the existence of a potential gain since 380 the extent of their market increases. This is due to the fact that guests face a relatively scant 390 offer and must accept having to pay higher prices. Non-professionals also perceive this reality 391 of the market, but since their knowledge of the market and their objectives are different, they 392 do not set a price that would allow them to extract the totality of what one could call the 393 'seasonal rent'. These results confirm that the price differential between professionals and 394  $^{7}$ These percentages are obtained by adding up the coefficients associated to Pro and ProXMonth and

then applying the formula given in footnote 7.

non-professionals evolves over time. More precisely, the price differential between professional and non-professional hosts depends positively on the evolution of demand. 396

#### DML estimation 4.2

401

As emphasised in section 3.2, newer methods have recently been developed, which allows 398 for a better identification of the causal impact of the professional status on prices. The 399 estimation results of Model 2 with the so-called DML approach are represented in Figure 4. 400

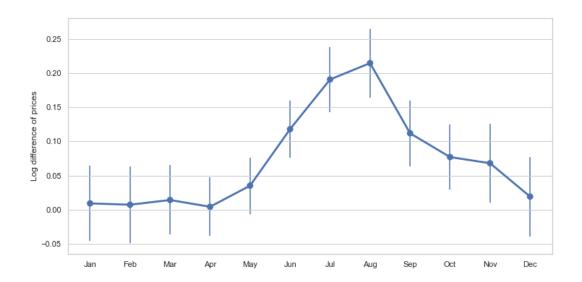


Figure 4: Log difference of prices between professionals and non-professionals in the DML specification

Figure 4 has a similar shape to Figure 3, with the important difference that the price differential between professionals and non-professionals is now larger. For example, the price 402 differential in August is 24% instead of 19.2%. In June and September, professional hosts 403 charge prices more than 11% higher than non-professionals, whereas the OLS estimation re-404 vealed a price differential less than 8%. Furthermore, the negative price differential obtained 405 in January, February, March, April, and December, is not robust to the application of the 406 DML method. This latter indeed concludes that professionals never charge lower prices than non-professionals. They happen to choose similar prices in January, February, March, April,
 and December. Otherwise the price differential is always strictly positive.

These results are confirmed by the DML estimation of Model 1, which reveals an average price differential equal to 8.8%, twice as much as that determined via the OLS (4.3%).

We can conclude that prices are generally higher for professionals, except in the winter and the beginning of spring. Specifically, it is dubious to consider that professionals ask for lower prices off-peak, as suggested by the OLS analysis.

# 5 Impact on revenue

We have observed that professionals tend to propose higher prices than non-professionals (for comparable listings). We now turn to the question of whether these higher prices translate into higher revenue (H3). For this purpose, we estimate the model (1), with the dependent variable now being the revenue earned, instead of the logarithm of the price. Estimates obtained via the DML method are shown in Figure 5.

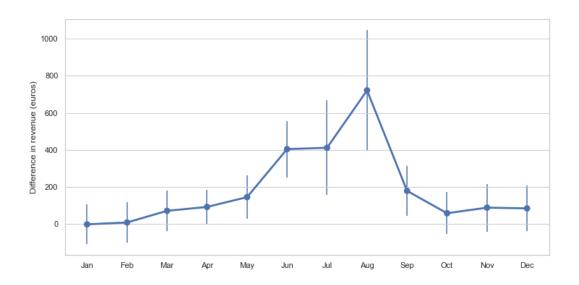


Figure 5: Difference in revenue between professionals and non-professionals in the DML specification

Results are very clear-cut. The higher prices adopted by professional hosts in the summer translate into higher revenue, meaning that the drop in demand, if any, is not sufficient to offset the price differential. Observe that the revenue differential may be quite large, peaking at almost €800 per listing in August.

However, we do not observe such an effect in Autumn (October and November), despite the professionals proposing higher prices than non-professionals. This could be explained by a sensitivity of demand to prices during this season greater than expected by the professionals. Faced with a limited market power, these latter would therefore be unable to transform higher prices into larger revenues.

Finally, despite adopting similar prices, professional hosts tend to generate more revenue
than non-professionals in the spring (March, April, and May). This effect could have two
possible explanations. Due to the correlation of the professional status with unobserved
listing characteristics, it could be the case that professionals tend to rent more easily for a
given level of prices. Another, simpler, explanation could well be that professionals make
their listings more available, on average, than non-professionals during this period of the
year.

### 437 6 Robustness checks

We propose two robustness checks. We first contrast our results with what would be obtained under an alternative characterisation of professional hosts, more in line with the usual assumption made in the literature. Then we implement our methodology on a dataset collected two years later in order to assess the temporal consistency of our results.

## 442 6.1 Alternative characterisation of professional hosts

The common characterisation of professional hosts encountered in the literature is based on the number of listings managed. A host is considered a professional player as soon as they manage more than a given number of listings. In the literature, thresholds are commonly
between one and three listings. We assume in this alternative specification that a host has
a professional activity as soon as they manage (strictly) more than two listings. Adopting
the DML methodology, estimation results in this setting are represented in Figure 6.

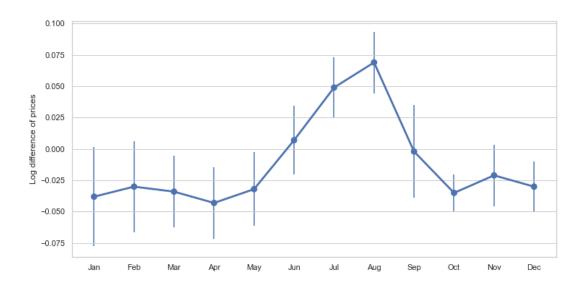


Figure 6: Log difference of prices in the DML specification under the alternative characterisation of professionalisation

The variations of the price differential according to the period of the year follow a similar 449 pattern as with our characterisation of professional hosts. However, two important differ-450 ences arise. First, the magnitude of the price differential is much lower. It now peaks 451 at approximately 8% in August, compared with more than 20% in our baseline scenario. 452 Second, and contrary to our results, professional hosts now propose lower prices off-peak. 453 When combining these two phenomena, we find that professional and non-professional hosts 454 tend to propose, under this alternative characterisation of professionalisation, similar prices 455 on average. This illustrates the importance of adopting a sound characterisation of the 456 professional activity on the short-term rental market.

#### 458 6.2 Temporal consistency of the results

time and experience.

In November 2015, Airbnb launched their pricing tool called Smart Pricing to help guests set their prices to maximise their revenue. Smart pricing algorithm uses 70 different variables to 460 provide hosts with pricing suggestions. They can either choose to follow the piece of advise 461 or not. (Airbnb 2017 https://blog.atairbnb.com/smart-pricing/). 462 Our data has been collected between September 2016 and August 2017, in a period in which 463 the smart pricing tool was not widely used yet. One could argue that the diffusion of this 464 practice among the hosts is likely to make our results already obsolete. 465 To deal with this potential issue, we have gathered the same dataset on airbnb sales for the 466 period ranging from September 2018 to August 2019 and run the analysis again considering 467 the same sample of hosts than for 2017. Results about the difference in prices are reported on 468 Figure 7. Comparing Figure 7 with Figure 4, one can observe that, two years later, the price 460 gap between professionals and non-professionals has become larger in both low and peak 470 season. For example, in 2017 the price gap was not significantly different for the months 471 between January and April. In 2017, instead, it lies above 10%. This suggests not only that 472 our previous results are not obsolete but that the price differential is likely to increase with 473

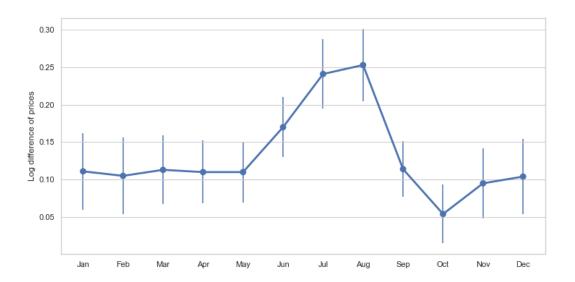


Figure 7: Log difference of prices in the DML specification for the period September 2018-August 2019

As for the difference in revenue, the results obtained with the data collected between 475 September 2018 and August 2019 are depicted in Figure 8. Comparing this Figure with 476 Figure 5, we still observe that professionals generate significantly more revenue during the 477 summer, with a gap peaking at more than €1000 in August. However, it appears that they 478 only perform slightly better in June and July 2019. For instance, while we have obtained 479 a gap in revenue per listing of  $\leq 400$  in July 2017, it is merely above  $\leq 200$  in July 2019. 480 This could be explained by a misperception of the market by professionals, who failed to 481 adjust sufficiently their prices to an increase in the elasticity of demand in July, as compared 482 to 2017. Data from the observatory of transports of Corsica indicate that the number of 483 tourists in 2019 was 5% lower compared to 2018. Furthermore, the number of tourists in 484 July was 25% below the number of tourists in August. These observations suggest that the 485 demand in July 2019 was likely to be more elastic than in July 2017, hence explaining the 486 drop in professionals performance with respect to 2017. The same reasoning applies for the 487 month of June. 488

Results for the other months are comparable, with slight differences. In June, the gap

489

between professionals and non-professionals, around €250, appears smaller than in our main analysis. Furthermore, the revenue generated by professionals is now (slightly) larger in Autumn and Winter.

Overall, we can say that our results are fairly robust and that the increased diffusion of
the smart pricing tool did not have too much of an impact on the pricing behaviour of the
hosts. Interestingly enough, however, we note that even though the difference in prices in
July is of the same order with the 2019 data, professionals failed to generate more revenue
during this month.

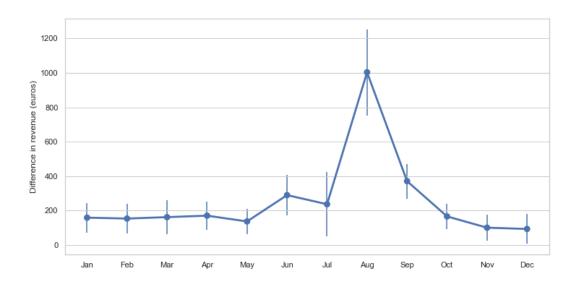


Figure 8: Difference in revenue between professionals and non-professionals in the DML specification for the period September 2018-August 2019

# <sup>8</sup> 7 Discussion and conclusion

To date, the literature related to the pricing behaviour of Airbnb hosts has highlighted some interesting features that differentiate professional players from casual hosts. According to Deboosere et al. (2019), despite the fact that the price asked by professional hosts does not differ on average from the price asked by casual hosts, the former obtain a higher level of

revenue on average. This enhanced capacity to generate revenue could be partially explained by the fact that professional players practice dynamic pricing and change their prices more often to cope with changes in demand, as argued by Oskam et al. (2018). Nonetheless, even if changing the asked price more often is a key to understand why professional players are more efficient in the generation of revenue, there is a need to understand when and in which direction professionals adjust the prices in more depth. The proposed methodology makes it possible to understand the difference in the pricing strategy of professionals with respect to non-professionals.

Furthermore, our approach relies on a clear definition of the professional host. In the 511 aforementioned studies, hosts are characterised by the number of listings that they manage. 512 It raises a number of potential issues due to the fact that these hosts could be very heterogen-513 eous in terms of objective and characteristics. Some of them are obviously not professionals. 514 By considering only businesses as professional players, we obtain clearer results, indicating 515 that the difference in revenue, as already revealed by Deboosere et al. (2019), is associated 516 to a price differential. In addition, we demonstrate that this price differential depends on 517 time and the intensity of demand. 518

This study is the first to measure a month-by-month price differential between professional and non-professional hosts. The results indicate that the price differential exists during
the peak season. More precisely, asked prices are similar between January and May and they
start to differ in June. In July and August, the peak in demand, professional hosts are more
than 20% more expensive. This positive price differential slowly decreases as the demand
slows in September, October, and November, and vanishes in December. This provides additional evidence that professionals practice dynamic pricing, as suggested by Deboosere et al.
(2019) and Oskam et al. (2018).

Professionals tend to adopt a different behaviour only when demand is high. It means that they have a different perception of the economic opportunities associated with the seasonal increase in demand. Their enhanced knowledge of the market, related to experience or the existence of loyal customers, for example, makes them aware of the fact that during
the peak season, a fringe of customers is characterised by a quite low price elasticity of
demand. They simply use this temporary market power to raise their prices and increase
their revenue. We should stress that professional hosts behave as suggested by the textbook
model of monopolistic competition while this is not (or less frequently) the case for casual
hosts. Both casual and professional hosts increase their prices during the peak season but,
on average, professionals perceive a larger degree of market power and tend to increase their
rates more to enhance their revenue.

Our results emphasise that an economic incentive exists for short-term rental platforms 538 to attract a significant number of professionals in destinations marked by an important 539 seasonality, as the revenue of the platform is a fraction of the host's revenue. Since we 540 show that professional hosts perform better in the presence of seasonality, it means that 541 the platform will enhance its profit if the share of professional hosts is sufficiently large. 542 Furthermore, another managerial implication for the platform is related to its ability to 543 train casual hosts. The development of an accurate pricing tool such as smart pricing could 544 be a way for the platform to reduce the gap in market knowledge between professional and 545 casual hosts. By closing this gap, the platform will probably experience a significant increase in profits. Nonetheless, one as to keep in mind that a key attraction factor for the platform is the capacity to provide relatively cheap accommodation to some guests. That is, the correct mix between casual and professional hosts in the portfolio of the platform is destination specific and will partly depend on seasonality. 550

Finally, it should be kept in mind that the pricing decision may depend, in addition to the
numerous explanatory variables included in our model, on some other, unmeasured, variables.
In particular, some recent literature has emphasised the importance of human relationships
between guests and hosts (Stofberg & Bridoux 2019, Ert & Fleischer 2020). Guests are shown
to value having in-person interactions or the quality of hosts' photographs. Assuming that
professional hosts are less likely to provide these "services" than casual hosts, we conjecture

that the pricing gap between these two types of hosts would be even larger than the one found in this article. Our econometric specification indeed implies that professionals charge higher prices, despite offering less human relationships. If we could control for the quality of human interactions, a *ceteris paribus* analysis would compare professional to casual hosts providing the same quality of human interactions. It would therefore conclude to a larger price differential since guests, who value positively human relationships, would be willing to pay more to professionals for an increase in this service. A precise development of this informal statement should, however, be the subject of future research.

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# APPENDIX

# 657 OLS Results

Table 2: OLS Results

	Model 1		Model 2	
Pro	0.041667**	(3.205)	-0.041228*	(-2.144)
Month (ref. Jan)				
Feb	-0.022464***	(-8.709)	-0.022955***	(-8.276)
Mar	0.021615***	(6.130)	0.021945***	(5.962)
Apr	0.041383***	(9.875)	0.040896***	(9.177)
May	0.073532***	(16.555)	0.068979***	(14.765)
Jun	0.181323***	(37.399)	0.166463***	(32.718)
Jul	0.393524***	(69.445)	0.368368***	(62.399)
Aug	0.434069***	(73.192)	0.406592***	(65.937)
Sep	0.154286***	(33.233)	0.139805***	(28.993)
Oct	0.031714***	(7.867)	0.024239***	(5.821)
Nov	-0.015830***	(-4.438)	-0.022960***	(-6.325)
Dec	-0.014841***	(-5.049)	-0.016550***	(-5.287)
Pro X Feb			0.003663	(0.515)
Pro X Mar			0.000803	(0.070)
Pro X Apr			0.010964	(0.842)
Pro X May			0.040409**	(2.821)
Pro X Jun			0.116231***	(7.539)
Pro X Jul			0.198898***	(10.975)
Pro X Aug			0.216955***	(11.531)
Pro X Sep			0.114847***	(7.458)
Pro X Oct			0.060108***	(4.305)
Pro X Nov			0.056468***	(4.288)
Pro X Dec			0.008653	(0.987)
ListingAge	0.001954***	(6.474)	0.001928***	(6.388)

PropertyType (ref. Apartment)				
Bed_Breakfast	0.180840***	(6.573)	0.181498***	(6.587)
Bungalow	-0.042481	(-1.146)	-0.041989	(-1.136)
Chalet	0.028553	(0.626)	0.029146	(0.639)
Condominium	-0.024916	(-1.148)	-0.025170	(-1.159)
Guesthouse	0.236824***	(7.084)	0.234529***	(7.019)
House	0.080729***	(7.953)	0.080793***	(7.960)
Other	0.046692	(1.649)	0.045001	(1.585)
Vacation_home	0.102848***	(3.339)	0.107183***	(3.453)
Villa	0.132657***	(7.389)	0.132275***	(7.367)
ListingType (ref. Entire Home)				
Private_room	-0.227561***	(-10.402)	-0.227307***	(-10.388)
Shared_room	-0.759416***	(-6.245)	-0.758081***	(-6.339)
Bedrooms	0.143918***	(15.845)	0.143885***	(15.856)
Bathrooms	0.124604***	(10.270)	0.124407***	(10.254)
MaxGuests	0.029508***	(5.993)	0.029567***	(6.002)
NumberofPhotos	0.002682***	(6.293)	0.002682***	(6.298)
Superhost	-0.039978**	(-3.029)	-0.040525**	(-3.073)
ResponseTime	0.000000	(1.561)	0.000000	(1.517)
ResponseRate	-0.000127	(-0.404)	-0.000123	(-0.393)
OverallRating	0.058553***	(5.666)	0.059029***	(5.704)
CancellationPolicy (Ref: Flexible)				
Moderate	-0.052426***	(-4.118)	-0.052614***	(-4.133)
Strict	0.002457	(0.242)	0.002217	(0.218)
Strict_30	0.018812	(0.377)	0.019979	(0.405)
Strict_60	0.131867	(1.506)	0.106986	(1.221)
MinimumStay	0.000267	(0.903)	0.000269	(0.904)
InstantbookEnabled	-0.027489***	(-3.417)	-0.027802***	(-3.455)
Constant	3.647006***	(57.070)	3.657152***	(57.272)
Observations	72986		72986	
$R^2$	0.693		0.695	

t statistics in parentheses

<sup>\*</sup> p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

Table 3: OLS Results for amenities

	Model 1		Model 2	
amenity_kitchen	-0.097777***	(-4.720)	-0.098421***	(-4.753)
amenity_internet	-0.031605	(-1.463)	-0.032460	(-1.500)
amenity_tv	0.040041**	(3.279)	0.039563**	(3.238)
amenity_heating	-0.037649***	(-3.910)	-0.037732***	(-3.919)
amenity_ac	0.058508***	(7.096)	0.058703***	(7.120)
amenity_washer	-0.002933	(-0.227)	-0.002732	(-0.211)
amenity_dryer	0.099710***	(8.727)	0.100336***	(8.783)
amenity_free_parking	-0.013122	(-1.157)	-0.012359	(-1.087)
amenity_wireless_internet	0.036387***	(4.198)	0.036392***	(4.198)
amenity_cable	0.035097***	(3.388)	0.035037***	(3.381)
$amenity\_breakfast$	-0.007901	(-0.492)	-0.007533	(-0.469)
amenity_allows_pets	-0.052749*	(-2.410)	-0.052271*	(-2.383)
$amenity\_family\_friendly$	0.025295	(1.604)	0.025325	(1.604)
$amenity\_event\_friendly$	0.021278	(0.648)	0.021018	(0.638)
amenity_allows_smoking	-0.016397	(-0.796)	-0.016872	(-0.818)
$amenity\_wheelchair\_accessible$	0.136288**	(3.064)	0.135760**	(3.048)
amenity_elevator	0.037092**	(2.952)	0.037217**	(2.964)
amenity_fireplace	0.078426***	(6.208)	0.078339***	(6.199)
amenity_buzzer	-0.012256	(-0.376)	-0.013543	(-0.416)
amenity_doorman	0.162710	(1.721)	0.162783	(1.720)
amenity_pool	0.190425***	(17.565)	0.190240***	(17.549)
amenity_jacuzzi	0.125441***	(4.752)	0.125631***	(4.752)
amenity_gym	0.057221	(1.279)	0.056985	(1.278)
$amenity\_bedroom\_step\_free\_access$	0.581829**	(2.929)	0.591521**	(2.979)
$amenity\_bathroom\_step\_free\_acces$	0.331481	(1.021)	0.315784	(0.978)
$amenity\_home\_step\_free\_access$	-0.357330*	(-2.073)	-0.364094*	(-2.121)
amenity_common_space_step_free_a	-0.254069	(-0.820)	-0.238686	(-0.772)
$amenity\_bedroom\_wide\_doorway$	0.148071	(0.399)	0.184763	(0.496)
$amenity\_home\_wide\_doorway$	0.181656	(0.761)	0.186079	(0.784)

amenity_bathroom_wide_doorway         0.468759         (1.535)         0.477076         (1.59)           amenity_changing_table         0.028576         (0.931)         0.028469         (0.927)           amenity_childrens_books_and_toys         0.005353         (0.379)         0.005218         (0.370)           amenity_iron         -0.025709*         (2.402)         -0.025501*         (-2.848)           amenity_wide_clearance_to_shower         0.468242         (1.175)         0.410585         (1.184)           amenity_private_living_room         -0.02617         (-0.330)         0.026228         (0.764)           amenity_bathtub         0.020375         (0.771)         0.020943         (0.739)           amenity_fire_extinguisher         0.020373*         (2.387)         0.02973*         (2.387)           amenity_fat_smooth_pathway_to_f         -0.480815         (-1.643)         0.09375         (0.490)           amenity_street_parking         -0.041580**         (-6.27)         0.058289**         (4.690)           amenity_street_parking         -0.011580**         (-6.27)         0.041664**         (-3.282)           amenity_street_parking         -0.015533**         (-6.64)         0.05505*         (0.671)           amenity_street_parking         -0.					
amenity_childrens_books_and_toys         0.005353         (0.379)         0.005218         (0.379)           amenity_iron         -0.025709*         (-2.402)         -0.025501*         (-2.384)           amenity_common_space_wide_doorwa         -0.467646         (-1.703)         -0.485591         (-1.776)           amenity_wide_clearance_to_shower         0.408242         (1.175)         0.410585         (1.184)           amenity_fireplace_guards         0.026033         (0.760)         0.026228         (0.764)           amenity_childrens_dininerware         -0.014194         (-0.30)         -0.016137         (-0.376)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.02973*         (2.387)         0.029797*         (2.392)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535****         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.566)           amenity_private_entrance <td>amenity_bathroom_wide_doorway</td> <td>0.468759</td> <td>(1.535)</td> <td>0.477076</td> <td>(1.559)</td>	amenity_bathroom_wide_doorway	0.468759	(1.535)	0.477076	(1.559)
amenity_iron         -0.025709*         (-2.402)         -0.025501*         (-2.384)           amenity_common_space_wide_doorwa         -0.467646         (-1.703)         -0.485591         (-1.776)           amenity_wide_clearance_to_shower         0.408242         (1.175)         0.410585         (1.184)           amenity_fireplace_guards         0.026033         (0.756)         0.026228         (0.764)           amenity_note_living_room         -0.014194         (-0.380)         -0.016137         (-0.376)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.02973*         (2.387)         0.029797*         (2.392)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_rib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580*         (-3.275)         -0.041664**         (-3.282)           amenity_stale_corner_guards         0.054211         (0.645)         0.056205         (0.671)           amenity_stale_po_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_private_entrance	$amenity\_changing\_table$	0.028576	(0.931)	0.028469	(0.927)
amenity_common_space_wide_doorwa         -0.467646         (-1.703)         -0.485591         (-1.776)           amenity_wide_clearance_to_shower         0.408242         (1.175)         0.410585         (1.184)           amenity_fireplace_guards         0.026033         (0.756)         0.026228         (0.764)           amenity_accessible_height_toilet         -0.246174         (-0.789)         -0.255545         (-0.817)           amenity_hildrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_rib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_stable_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_carbon_monoxide_detector         0.007587         (0.573)         0.007704         (0.583)           amenity	$amenity\_childrens\_books\_and\_toys$	0.005353	(0.379)	0.005218	(0.370)
amenity_wide_clearance_to_shower         0.408242         (1.175)         0.410585         (1.184)           amenity_fireplace_guards         0.026033         (0.756)         0.026228         (0.764)           amenity_accessible_height_toilet         -0.246174         (-0.789)         -0.255545         (-0.817)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_street_parking         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_private_entrance         <	amenity_iron	-0.025709*	(-2.402)	-0.025501*	(-2.384)
amenity_fireplace_guards         0.026033         (0.756)         0.026228         (0.764)           amenity_accessible_height_toilet         -0.246174         (-0.789)         -0.255545         (-0.817)           amenity_private_living_room         -0.014194         (-0.330)         -0.016137         (-0.376)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_crib         0.058535****         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580***         (-3.275)         -0.041664**         (-3.282)           amenity_street_parking         -0.041580***         (-3.275)         -0.041664**         (-3.282)           amenity_street_parking         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_private_entrance         -0.047	$amenity\_common\_space\_wide\_doorwa$	-0.467646	(-1.703)	-0.485591	(-1.776)
amenity_accessible_height_toilet         -0.246174         (-0.789)         -0.255545         (-0.876)           amenity_private_living_room         -0.014194         (-0.330)         -0.016137         (-0.376)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.003961**         (-3.136)           amenity_safety_card	$amenity\_wide\_clearance\_to\_shower$	0.408242	(1.175)	0.410585	(1.184)
amenity_private_living_room         -0.014194         (-0.330)         -0.016137         (-0.376)           amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_window_guards         -0.075419	$amenity\_fireplace\_guards$	0.026033	(0.756)	0.026228	(0.764)
amenity_childrens_dinnerware         0.020375         (0.771)         0.020943         (0.793)           amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_crib         0.058535****         (4.627)         0.058289****         (4.609)           amenity_street_parking         -0.041580***         (-3.275)         -0.041664***         (-3.282)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_window_guards         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_safety_card         -0.029486         (-0.606)         -0.028223         (-0.581)           amenity_game_console         0.023496         (0.448)         0.024180         (0.460)           amenity_pack_n_play_travel_crib         -0.031209**         <	$amenity\_accessible\_height\_toilet$	-0.246174	(-0.789)	-0.255545	(-0.817)
amenity_fire_extinguisher         0.029733*         (2.387)         0.029797*         (2.392)           amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_stair_gates         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_window_guards         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_safety_card         -0.022282** <t< td=""><td><math display="block">amenity\_private\_living\_room</math></td><td>-0.014194</td><td>(-0.330)</td><td>-0.016137</td><td>(-0.376)</td></t<>	$amenity\_private\_living\_room$	-0.014194	(-0.330)	-0.016137	(-0.376)
amenity_bathtub         0.007012         (0.398)         0.007455         (0.424)           amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535****         (4.627)         0.058289****         (4.609)           amenity_street_parking         -0.041580***         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_carbon_monoxide_detector         0.007587         (0.573)         0.007704         (0.583)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_stair_gates         -0.093638**         (-3.127)         -0.093961**         (-3.136)           amenity_window_guards         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_safety_card         -0.022486*	$amenity\_childrens\_dinnerware$	0.020375	(0.771)	0.020943	(0.793)
amenity_flat_smooth_pathway_to_f         -0.480815         (-1.643)         -0.496317         (-1.691)           amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_carbon_monoxide_detector         0.007587         (0.573)         0.007704         (0.583)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_stair_gates         -0.093638**         (-3.127)         -0.093961**         (-3.136)           amenity_window_guards         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_safety_card         -0.029486         (-0.606)         -0.028223         (-0.581)           amenity_game_console         0.023496<	$amenity\_fire\_extinguisher$	0.029733*	(2.387)	$0.029797^*$	(2.392)
amenity_crib         0.058535***         (4.627)         0.058289***         (4.609)           amenity_street_parking         -0.041580**         (-3.275)         -0.041664**         (-3.282)           amenity_table_corner_guards         0.054211         (0.645)         0.056505         (0.671)           amenity_shampoo         0.015533         (1.566)         0.015342         (1.546)           amenity_laptop_friendly         0.002784         (0.320)         0.002776         (0.319)           amenity_carbon_monoxide_detector         0.007587         (0.573)         0.007704         (0.583)           amenity_private_entrance         -0.014792         (-1.481)         -0.014169         (-1.419)           amenity_grab_rails_in_shower_and         0.000000         (.)         0.000000         (.)           amenity_stair_gates         -0.093638**         (-3.127)         -0.093961**         (-3.136)           amenity_window_guards         -0.075419         (-1.518)         -0.076479         (-1.535)           amenity_safety_card         -0.022486         (-0.606)         -0.0222823         (-0.581)           amenity_grame_console         0.023496         (0.448)         0.024180         (0.460)           amenity_pack_n_play_travel_crib         -0.031209**<	$amenity\_bathtub$	0.007012	(0.398)	0.007455	(0.424)
amenity_street_parking       -0.041580**       (-3.275)       -0.041664**       (-3.282)         amenity_table_corner_guards       0.054211       (0.645)       0.056505       (0.671)         amenity_shampoo       0.015533       (1.566)       0.015342       (1.546)         amenity_laptop_friendly       0.002784       (0.320)       0.002776       (0.319)         amenity_carbon_monoxide_detector       0.007587       (0.573)       0.007704       (0.583)         amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)	$amenity\_flat\_smooth\_pathway\_to\_f$	-0.480815	(-1.643)	-0.496317	(-1.691)
amenity_table_corner_guards       0.054211       (0.645)       0.056505       (0.671)         amenity_shampoo       0.015533       (1.566)       0.015342       (1.546)         amenity_laptop_friendly       0.002784       (0.320)       0.002776       (0.319)         amenity_carbon_monoxide_detector       0.007587       (0.573)       0.007704       (0.583)         amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022488*       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)	amenity_crib	0.058535***	(4.627)	0.058289***	(4.609)
amenity_shampoo       0.015533       (1.566)       0.015342       (1.546)         amenity_laptop_friendly       0.002784       (0.320)       0.002776       (0.319)         amenity_carbon_monoxide_detector       0.007587       (0.573)       0.007704       (0.583)         amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)	$amenity\_street\_parking$	-0.041580**	(-3.275)	-0.041664**	(-3.282)
amenity_laptop_friendly       0.002784       (0.320)       0.002776       (0.319)         amenity_carbon_monoxide_detector       0.007587       (0.573)       0.007704       (0.583)         amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)<	$amenity\_table\_corner\_guards$	0.054211	(0.645)	0.056505	(0.671)
amenity_carbon_monoxide_detector       0.007587       (0.573)       0.007704       (0.583)         amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349) <td>amenity_shampoo</td> <td>0.015533</td> <td>(1.566)</td> <td>0.015342</td> <td>(1.546)</td>	amenity_shampoo	0.015533	(1.566)	0.015342	(1.546)
amenity_private_entrance       -0.014792       (-1.481)       -0.014169       (-1.419)         amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_laptop\_friendly$	0.002784	(0.320)	0.002776	(0.319)
amenity_grab_rails_in_shower_and       0.000000       (.)       0.000000       (.)         amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_carbon\_monoxide\_detector$	0.007587	(0.573)	0.007704	(0.583)
amenity_stair_gates       -0.093638**       (-3.127)       -0.093961**       (-3.136)         amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_private\_entrance$	-0.014792	(-1.481)	-0.014169	(-1.419)
amenity_window_guards       -0.075419       (-1.518)       -0.076479       (-1.535)         amenity_safety_card       -0.029486       (-0.606)       -0.028223       (-0.581)         amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_grab\_rails\_in\_shower\_and$	0.000000	(.)	0.000000	(.)
amenity_safety_card	amenity_stair_gates	-0.093638**	(-3.127)	-0.093961**	(-3.136)
amenity_smoke_detector       -0.022282**       (-2.648)       -0.022488**       (-2.673)         amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_window\_guards$	-0.075419	(-1.518)	-0.076479	(-1.535)
amenity_game_console       0.023496       (0.448)       0.024180       (0.460)         amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_safety\_card$	-0.029486	(-0.606)	-0.028223	(-0.581)
amenity_pack_n_play_travel_crib       -0.031209**       (-2.931)       -0.031086**       (-2.921)         amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_smoke\_detector$	-0.022282**	(-2.648)	-0.022488**	(-2.673)
amenity_wide_hallway_clearance       -0.121817       (-0.613)       -0.123960       (-0.629)         amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_game\_console$	0.023496	(0.448)	0.024180	(0.460)
amenity_lock_on_bedroom_door       -0.033587       (-1.404)       -0.034398       (-1.438)         amenity_room_darkening_shades       -0.041267*       (-2.013)       -0.041463*       (-2.023)         amenity_outlet_covers       0.046484       (1.331)       0.047107       (1.349)	$amenity\_pack\_n\_play\_travel\_crib$	-0.031209**	(-2.931)	-0.031086**	(-2.921)
amenity_room_darkening_shades	$amenity\_wide\_hallway\_clearance$	-0.121817	(-0.613)	-0.123960	(-0.629)
amenity_outlet_covers $0.046484$ $(1.331)$ $0.047107$ $(1.349)$	$amenity\_lock\_on\_bedroom\_door$	-0.033587	(-1.404)	-0.034398	(-1.438)
	$amenity\_room\_darkening\_shades$	-0.041267*	(-2.013)	-0.041463*	(-2.023)
amenity_handheld_shower_head 0.115496 (0.374) 0.118062 (0.383)	$amenity\_outlet\_covers$	0.046484	(1.331)	0.047107	(1.349)
	$amenity\_handheld\_shower\_head$	0.115496	(0.374)	0.118062	(0.383)

amenity_baby_bath	-0.066564***	(-3.780)	-0.066681***	(-3.788)
$amenity\_wide\_clearance\_to\_bed$	-0.637618	(-1.086)	-0.667595	(-1.132)
amenity_paid_parking	0.009683	(0.372)	0.009913	(0.381)
$amenity\_accessible\_height\_bed$	0.000000	(.)	0.000000	(.)
$amenity\_disabled\_parking\_spot$	0.472426	(1.333)	0.494744	(1.387)
$amenity\_baby\_monitor$	0.067483	(1.289)	0.067375	(1.288)
$amenity\_first\_aid\_kit$	-0.017050	(-1.319)	-0.016684	(-1.293)
$amenity\_path\_to\_entrance\_lit\_at\_$	0.043922	(0.262)	0.041852	(0.250)
$amenity\_hair\_dryer$	0.009855	(1.019)	0.009956	(1.030)
amenity_essentials	0.073390***	(7.855)	0.073795***	(7.901)
amenity_24hr_checkin	-0.059891	(-1.225)	-0.059173	(-1.211)
$amenity\_baby sitter\_recommendatio$	$0.044604^*$	(2.059)	$0.044517^*$	(2.056)
amenity_high_chair	-0.052234***	(-4.086)	-0.052313***	(-4.095)
amenity_hangers	-0.011367	(-0.917)	-0.011767	(-0.950)

t statistics in parentheses

Only significant coefficients at the 0.05 level are reported

<sup>\*</sup> p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001