

Happy Hosts? International Tourist Arrivals and Residents' Subjective Well-being in Europe

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Artjoms Ivlevs¹

Abstract

While there has been a growing interest in the relationship between perceived tourism impacts and residents' quality of life, little is known about how residents' well-being is affected by actual tourist arrivals. This article studies the effect of international tourist arrivals on the subjective well-being—happiness and life satisfaction—of residents in European countries. Data come from the six waves of the European Social Survey, conducted in 32 countries in 2002–2013. The results of the OLS fixed-effects and instrumental-variable estimations suggest that tourist arrivals reduce residents' life satisfaction. This negative relationship tends to be more pronounced in countries where tourism intensity is relatively high, as well as among people living in rural areas. In addition, tourist arrivals have a greater negative relationship with the evaluative component of subjective well-being (life satisfaction) than its affective component (happiness).

Keywords

life satisfaction, happiness, tourist arrivals, Europe, instrumental variable analysis

Introduction

Understanding the effects of tourism on host populations has long been a question of primary importance for both academics and policy makers. Tourism affects various aspects—economic, social, cultural, environmental—of life in host societies (Kim, Uysal, and Sirgy 2013), and the substantial literature studying these effects is far from unanimous as to whether tourists change hosts' lives for better or for worse. On the one hand, residents benefit from tourism via enhanced economic activity, upgrade of recreational facilities, organization of festivals, opening of restaurants, revitalization of local cultures and investments in environmental infrastructure; on the other hand, tourism may increase the cost of living, contribute to noise pollution, crowding, traffic, begging and crime problems, disrupt traditional cultures and ways of life, and lead to environmental degradation (see, for example, Andereck et al. (2005) and Kim, Uysal, and Sirgy (2013) for extensive reviews of tourism impacts at the community level). The recent decision of the mayor of Barcelona to limit tourist numbers (Paris 2015) provides a vivid example of a negative net effect of mass tourism on the well-being of local residents. Similar voices of local dissatisfaction are being heard across many popular tourist destinations in Europe (BBC 2009; Pidd 2011; Ross 2015).

In an attempt to gauge the effects of tourism on the well-being of host populations from a more holistic perspective, recent literature has started addressing the impacts of tourism on residents' quality of life and its various manifestations,

such as subjective well-being (Andereck and Nyaupane 2011; Kim, Uysal, and Sirgy 2013; Nawijn and Mitas 2012; Nguyen, Rahtz, and Shultz, 2014; Woo, Kim, and Uysal 2015). Most of these contributions have focused on individual perceptions of tourism impacts in specific tourist-receiving communities, and have generally found a positive association between the perceived value of tourism and well-being: people who think that tourism is beneficial (either for them personally or for the community) tend to report higher levels of subjective well-being. Against this background, a question that has received less attention is how actual tourist inflows affect the subjective well-being of the host populations. This article aims to address this gap. Focusing on international tourist inflows, it asks the following questions: Does an increase in the number of tourists affect subjective well-being (life satisfaction and happiness) of people in tourist-receiving counties and, if so, how (positively or negatively)? Are the well-being effects of tourism more pronounced in countries with relatively high tourist inflows? Is the subjective well-being of particular sociodemographic groups, such the elderly, the low-skilled and rural residents, more likely to be affected by tourism?

¹Department of Accounting, Economics and Finance, Bristol Business School, University of the West of England, Bristol, United Kingdom

Corresponding Author:

Artjoms Ivlevs, Department of Accounting, Economics and Finance, Bristol Business School, University of the West of England, Bristol BS16 1QY, United Kingdom.
Email: a.ivlevs@uwe.ac.uk

Does tourism affect the two main components of subjective well-being—life satisfaction and happiness—differently?

Finding answers to these questions is important from a policy perspective. First, in many countries across the world, governments and policy makers have recognized the potential of tourism for national and regional development and actively promoting tourism-enhancing policies (World Tourism Organization 2015). As the numbers of tourists grow, policy makers may be interested in how tourism affects not only the economic outcomes but also the overall quality of life and subjective well-being of host populations. It is also of policy interest whether these well-being effects differ between countries with more and less intense tourist inflows, and whether tourism has a differential impact on the well-being of different sociodemographic groups. Answers to these questions would lead to a broader and deeper understanding of the well-being effects of tourism, which in turn could help inform and design more successful tourism development policies. Second, subjective well-being—a variable of primary interest in this study—is becoming an important policy measure in its own right. Governments across the world have been adopting different measures of subjective well-being to capture individual welfare and societal progress, and guide policy making (O'Donnell et al. 2014; OECD 2013; Office for National Statistics 2013). Recent evidence suggests that subjective well-being has a number of objective benefits: more life-satisfied and happier people live longer, are healthier, more productive, more creative, and more sociable (De Neve et al. 2013). Thus, tourism planners should be interested in designing and adopting tourism policies that enhance, or at least do not reduce, people's subjective well-being.

This article uses data from the European Social Survey to explain how the subjective well-being of more than 260,000 respondents from 32 European countries has varied in response to the country-level tourist arrival rate over 12 years (2002–2013). There are several ways in which it advances the scholarly dialogue. First, it contributes to the empirical literature on tourism and subjective well-being. A large strand within this literature has studied the effects of tourism experience on the subjective well-being of tourists themselves (Bimonte and Faralla 2012; Chen and Petrick 2013; Chen, Huang, and Petrick 2016; Dolnicar, Yanamandram, and Cliff 2012; Gilbert and Abdullah 2004; Kroesen and Handy 2014; McCabe and Johnson 2013; Nawijn and Veenhoven 2011; Neal, Uysal, and Sirgy 2007; Pagán 2015; Sirgy et al. 2011; Uysal et al. 2016). However, much less is known about how tourism affects the well-being of people in host societies (Nawijn and Mitas 2012), and our study contributes to this body of knowledge by focusing on actual tourist inflows and by adopting a multicountry and longitudinal perspectives. The article links to the vast literature on residents' perceptions of tourism and support for tourism development, critical reviews of which (Deery, Jago, and Fredline 2012; Nunkoo, Smith, and Ramkissoon, 2013;

Sharpley 2014) reveal the dominance of North American case studies and insufficient attention to both established and rapidly developing tourist destinations elsewhere in the world, blurred boundaries between international and domestic tourism, little consideration of the growing global scale of tourism and the associated lack of longitudinal analyses, and, finally, an overemphasis on attitudes toward tourism/tourism development as opposed to attitudes toward tourists. The present study indirectly addresses many of these limitations if one agrees with the contention that “happy hosts” are also ones who have positive attitudes toward tourism and support further tourism development (Snaith and Haley 1999; Woo, Kim, and Uysal 2015).

Tourism and Subjective Well-being of Residents: Related Literature, Theoretical Considerations, and Hypotheses

Defining Subjective Well-being

Life satisfaction and happiness are the most frequently used representations of subjective well-being in the academic literature, and both are being adopted as core measures of well-being in policy circles. The two measures are positively correlated and are often used interchangeably. However, important differences between the two variables exist. Life satisfaction is the evaluative/cognitive component of subjective well-being and happiness is its hedonic/affective component. Life satisfaction draws on how people remember things and think about life, while happiness draws on how people experience life (Kahneman and Riis 2005). Some differences also arise in their relationships with other variables. For example, life satisfaction has been shown to generally increase with education whereas the relationship between education and hedonic measures of well-being is less clear-cut; similarly, happiness tends to saturate with income beyond a certain point and life satisfaction does not (Kahneman and Deaton 2010; O'Donnell et al. 2014). Recently, in their guidelines on measuring subjective well-being, the OECD have recommended using life satisfaction as a core measure of subjective well-being, and complementing it with measures of positive and negative affect (happiness, sadness, stress) whenever possible (OECD 2013). This article uses both life satisfaction and happiness measures and, among other things, tests whether they respond differently to tourist inflows.

Despite an increasing use of the subjective measures of well-being by both policy makers and academics, a common criticism of life satisfaction and happiness indices is that they are self-reported and subjective constructs. Questions on which they are based can be understood differently across space and time, which makes it potentially difficult to make interpersonal, international, and intertemporal comparisons (Di Tella and MacCulloch 2006). However, the subjective

measures of well-being have been extensively validated via psychological and brain-scan research, and shown to be reliable, consistent, and comparable measures of individual well-being (Diener, Inglehart, and Tay 2012; Layard 2011).

Perceptions of Tourism Impacts and Subjective Well-being: Review of Related Literature

Recent literature suggests that the perceived value of tourism is an important positive determinant of residents' quality of life and subjective well-being. For example, Woo, Kim, and Uysal (2015), using a sample of 407 respondents across five tourism destinations in the United States, found a positive association between the perceived value of tourism and the overall quality of life (of which overall life satisfaction was one component), as well as its nonmaterial (health, emotional life, community life) and material (financial situation) domains. Moreover, the study revealed that the overall quality of life was positively associated with support for further tourism development. Kim, Uysal, and Sirgy (2013), using a survey of 321 respondents from Virginia, found that individual perceptions of the economic, social, cultural, and environmental impacts of tourism significantly predicted, respectively, material, community, emotional, and health and safety satisfaction. The study also found that the strength of the relationship between various tourism impacts and well-being domains varied according to the stage of tourism development of the respondents' community/place of residence: the relationship between the economic and social impacts of tourism and satisfaction with corresponding life domains was strongest in the maturity stage of the tourism development cycle, while the strength of the cultural and environmental pairs peaked during the decline stage.

Next, based on interviews with more than 1,000 respondents in Arizona, Andereck and Nyaupane (2011) highlighted the importance of not only the perceived value of tourism on a particular aspect of an individual's life but also the significance and quality of this aspect of life for the individual. Thus, a local resident may consider that tourism improves the quality of cultural life in a community, resulting, for example, in more festivals and fairs. However, the resident's well-being will be positively affected only if he or she considers festivals and fairs personally important or if he or she thinks there are currently not enough of them. Nawijn and Mitas (2012), drawing on a survey of 373 respondents in Palma de Mallorca, found that a positive evaluation of tourism is a significant determinant of satisfaction with health, interpersonal relationships, friends, and services and infrastructure. The association between perceived tourism impacts and happiness—the affective component of subjective well-being—was, however, much weaker, which the authors explained by the fact that happiness is affected by one-off events rather than constantly present life characteristics. Finally, Nguyen, Rahtz, and Shultz (2014), using data collected through an ethnographic approach in the La Hang

community of Vietnam, found that local citizens, and especially older people (whose memories of past economic hardships were still fresh), felt that their quality of life had improved because of the implemented tourism development policies.

These studies have much in common: they concentrate on communities that have hosted tourists (which ensures that local residents are able to form an opinion about tourism impacts), and generally adopt a static perspective, that is, particular communities are observed only at one point in time (and not repeatedly/over time). Importantly, the central variable in all these studies is the residents' *perceptions of tourism impacts*, and these perceptions are generally found to be positively associated with various manifestations of subjective well-being. What remains less well understood is how the subjective well-being of residents responds to changes in *actual tourist arrivals*. This is the main question asked in this article, and the remainder of this subsection will provide the intuition behind possible answers to this question, conceptualizing the channels through which tourist inflows might affect residents' subjective well-being and outlining testable hypotheses.

Tourist Inflows and Subjective Well-being of Residents: Possible Channels and Hypotheses to Be Tested

Tourist arrivals can affect residents' well-being through at least two channels. First, tourism affects various domains of residents' lives (employment, health, social life, etc.) and, consequently, their subjective well-being; note that residents may or may not be aware that these effects come from tourism. Second, tourists affect residents' well-being through actual encounters. In addition, it can be argued that within a particular country, tourist inflows can affect the well-being of residents who live in both tourist and nontourist areas.

Take a local resident living in a tourist destination. Tourism may affect—both positively and negatively—economic, social, cultural, and environmental domains of his or her life, and the interplay of these effects is likely to have an impact on the resident's overall well-being. These effects may differ across the tourism development cycle. During the early stages of the cycle, one might expect that an increase in tourist arrivals will result in relatively high benefits (e.g., new jobs are being created, new recreational facilities opened, and locals like the diversity brought about by tourism) and relatively low costs (tourist inflows are still not high enough to drive the prices up, undermine community identity, or produce environmental damage). As the locality becomes more established as a tourist destination and tourist inflows grow, the scope for economic and social improvements for local residents reduces (e.g., most unemployed people have found jobs, and the numerous new cafés, visited mostly by tourists, do not thrill locals any more) and the scope for damage increases (e.g., prices increase, noise,

traffic, pollution, gambling, begging and crime problems arise, and locals may feel that their community loses its true identity). Taken together, the subjective well-being of residents living in tourist areas could increase with tourist arrivals during the incipient stage of the tourism development cycle and decrease during the rapid growth stage.

This reasoning links to the literature on the perceived effects of tourism on residents' subjective well-being (Andereck and Nyaupane 2011; Kim, Uysal, and Sirgy 2013; Nawijn and Mitas 2012; Nguyen, Rahtz, and Shultz 2014; Woo, Kim, and Uysal 2015). In addition, Kim, Uysal, and Sirgy (2013) highlight the role of the tourism life cycle on explaining the relationship between perceived tourist impact and well-being, and Vargas-Sánchez, Porrás-Bueno, and Plaza-Mejía (2011) document more negative attitudes toward additional tourism development in areas with higher tourist density. A crucial difference between the perceived impacts research and the current study is that we assume that a resident may or may not associate tourism impacts with tourism. For example, crime or environmental problems caused by tourism may be perceived by locals as coming from other sources or locals may have no idea what contributes to them, yet such negative tourism externalities will still reduce residents' well-being.

Now consider people living outside tourist destinations. As tourism develops elsewhere in their country, people become aware (e.g., through media) of the economic and social benefits that tourism brings to tourist destinations. This may affect subjective well-being both positively and negatively. On the one hand, residents in nontourist areas may become happier from knowing that their fellow citizens living in tourist destinations are gaining jobs and enjoying richer social lives. People in nontourist areas may even directly benefit from countrywide tourism, if the growing tourism industry generates extra demand for goods and services produced at nontourist localities (Cai, Leung, and Mak 2006); note that here again residents may or may not be aware that these benefits are generated by the tourism industry expanding elsewhere in the country. On the other hand, as tourist numbers grow elsewhere in the country, people in nontourist areas may realize that they live in a place that is not attractive enough for visiting. A feeling that life is getting better elsewhere (as evidenced by the increasing numbers of visitors)—even if it is not necessarily getting worse where one lives—may result in a sense of relative deprivation, which, in turn, can have a negative effect on subjective well-being (D'Ambrosio and Frick 2007; Luttmmer 2005; Miles and Rossi 2007).

As tourist arrivals grow, tourist destinations are more likely to encounter social and environmental problems. People in nontourist areas might become aware about these problems through media: for example, noise, crime, environmental, and loss-of-identity issues brought about by large tourist inflows are likely to be covered by the national news channels. This may render residents less happy.

Residents of nontourist areas may also feel that they do not benefit from the economic, social, and cultural opportunities generated by tourism, but are still affected by the industry's environmental externalities; Bestard and Nadal (2007) use this conjecture to explain why the Balearic Islands' residents living in municipalities with a lower density of tourism have more negative attitudes toward tourism. On the whole, it is reasonable to expect that people living outside tourist destinations can also be affected by tourism to their country. The net effect is likely to be neutral during the early stages of the tourism development cycle and become more negative as tourism in the community rapidly grows.

The second channel through which tourist inflows may affect the well-being of residents relates to actual encounters/contact with tourists. When tourist inflows are relatively low, people living in tourist destinations may enjoy interacting with guests, helping them to get around, practicing foreign language skills and feeling proud of the local community. However, too many encounters with tourists, which happens when tourist inflows are relatively high, can result in more discontent, and even hostility, than enjoyment (Boissevain 1996). As such emotions are part of individuals' subjective well-being, one might again expect tourism to have more of a negative effect on the well-being of residents when tourist intensity is high.

Note that people living in nontourist areas can also have encounters with tourists. When visiting particular places (e.g., the capital, a regional center, or a particular holiday resort) within one's country of residence on a regular basis, people from nontourist areas may notice, and find it striking, how tourist presence transforms the character of these places. A longstanding preferred seaside resort may, for example, have become a difficult-to-penetrate foreign visitor settlement, or a regional center where a resident studied many years ago may have become a prime tourist destination. So, observing increasing numbers of tourists in places to which people had been previously attached, residents may develop feelings of sadness and discontent, which, in turn, can reduce subjective well-being. Taken together, one can expect the well-being of residents living in both tourist and nontourist areas to be affected by actual encounters with tourists. The higher the tourist inflow rate, the more negative the effect of additional tourist arrivals on resident well-being is likely to be.

One must also consider the relevance of the two channels—the net effect of tourism and actual encounters with tourists—for different manifestations of subjective well-being. Arguably, life satisfaction—the cognitive/evaluative component of well-being—will be more responsive to the effects of tourism, while happiness—the hedonic/emotional component—will be more responsive to actual encounters with tourists. This is because life satisfaction draws on reflection/thinking about life (and assumes a

longer-term perspective) whereas happiness draws on experiencing life and the effects of spontaneous events (Kahneman and Riis 2005), such as unintentional encounters with tourists. On the whole, if one of the two channels dominates, tourist arrivals will not affect life satisfaction and happiness in the same manner.

Finally, it can be argued that not everyone's well-being is affected by tourist encounters in the same manner. In particular, older and less educated people, as well as rural residents, are may be affected by tourism more negatively. Older people may attach particular importance to established ways of life and find that large numbers of tourists disrupt them, while young people could enjoy meeting and interacting with foreigners.¹ People with lower levels of education may not have good foreign language skills and, therefore, might experience frustration from not being able to communicate with foreign guests; in contrast, more educated residents would speak foreign languages well and feel happy at being able to establish cross-cultural dialogues. Finally, people living in rural areas might be accustomed to daily lives where people know each other, and thus find the presence of unfamiliar tourists disruptive; in contrast, life in urban areas implies frequent interaction with unfamiliar people, which may make urban dwellers more likely to accept diversity brought about by tourism. These conjectures echo the fact that the elderly, the less educated, and people living in rural areas are more opposed to globalization and its various manifestations, such as immigration, free trade, and imported products (Bell and Blanchflower 2011; Facchini and Mayda 2008; Fennelly and Federico 2008; Juric and Worsley 1998; Mayda and Rodrik 2005).

Drawing on this discussion, the following hypotheses are formulated:

Hypothesis 1: Tourist arrivals have a negative effect on the subjective well-being of residents.

Hypothesis 2: The effect of tourism arrivals on residents' well-being is moderated by tourism density: the effect is more negative where tourism density is higher.

Hypothesis 3: Tourist arrivals have a differential effect on life satisfaction and the happiness of residents.

Hypothesis 4: The effect of tourism arrivals on residents' well-being is moderated by the respondents' age, education, and area of residence: the effect is more negative for older, less educated, and rural residents than for younger, more educated, and urban respondents, respectively.

Methods

Model Specification

The general model explaining the effects of country-level tourist inflows on the subjective well-being of resident populations can be expressed as follows:

$$\begin{aligned} \text{Subjective well-being}_{i,j,t} = & \beta_0 + \beta_1 \text{tourist arrivals}_{j,t} \\ & + \beta_2 \text{individual level controls}_{i,j,t} \\ & + \beta_3 \text{country level controls}_{j,t} \\ & + \beta_4 \text{country fixed effects}_j \\ & + \beta_5 \text{year fixed effects}_t + \text{error term}_{i,j,t} \end{aligned} \quad (1)$$

where the subjective well-being of individual i living in country j in year t is modeled as a function of the country-level tourist arrivals (which change yearly), typical individual-level determinants of subjective well-being (such as age, gender, education, income, and health), and country-level variables, such as GDP growth, unemployment, and inflation rates (which change yearly). Given the repeated-cross-section structure of the data (interviews are conducted in several countries over several years), the model includes dummy variables for all countries (country fixed effects) and years (year fixed effects). Country fixed effects account for all time-invariant, country-specific factors affecting both subjective well-being and tourist inflows. Year fixed effects account for the time trends in subjective well-being and tourist inflows that are common for all countries included in the analysis.

Data Sources

The estimation of the model necessitates data at both the individual and country level. Individual-level data come from the European Social Survey (ESS), which is a cross-national survey of social values, norms, behaviors, and attitudes conducted biannually in various European countries since 2002. Altogether, 32 European countries have participated in at least two of the six rounds (2002/03, 2004/05, ... 2012/13) of the survey, and 16 countries participated in all six rounds. The number of respondents varies from 579 to 3,031 in each country-round and the total sample size is 291,686.

In each ESS country-round, respondents were selected using strict random sampling techniques, and the national samples are representative of the participating countries' resident populations aged 15 and older (no upper age limit). Approximately one-hour-long face-to-face interviews were based on the ESS source questionnaire, which was designed in English and then translated into each language that is used as a first language by at least 5% of a participating country population. To ensure cross-country comparability, all methods and procedures related to data collection and processing were standardized across the participating countries. More information on the ESS design methodology is available on the ESS project website (<http://www.europeansocialsurvey.org/>).

The country-level data are sourced from the World Development Indicators—a collection of country-level statistics compiled by the World Bank from officially recognized national and international sources. The data set contains

statistics on annual country-level international tourist arrivals (sourced from the Yearbook of Tourism Statistics of the World Tourism Organization), as well as macroeconomic indicators such as GDP growth, inflation, and unemployment.

Variables

Dependent variable(s): subjective well-being. The ESS contains two questions that are used to construct two measures of subjective well-being: life satisfaction and happiness.² These questions are

All things considered, how satisfied are you with your life as a whole nowadays?

Taking all things together, how happy would you say you are?

The answers to both questions range from 0 (extremely dissatisfied/unhappy) to 10 (extremely satisfied/happy) and are used as values of the two variables.

Main regressor: tourist inflows. Tourist inflows are captured by the annual arrivals of international tourists, defined as people “who travel to a country other than that in which they usually reside, for a period not exceeding 12 months and whose main purpose in visiting is other than an activity remunerated from within the country visited.” To ensure these data are internationally comparable, tourist arrivals are expressed as a percentage of the host country population in the same year (annual population data sourced from the World Development Indicators). Table 1 reports the average tourist arrival rates and their range (maximum and minimum values) for 2002–2013 for the countries included in the analysis.

Individual-level controls. Following the empirical literature on the micro-determinants of subjective well-being, all estimations include the following individual-level controls: age (in years) and its square, years of completed education, household size, dummy variables for gender, being married/living with a partner, four household income levels (low, medium, and high—corresponding to the three within-country household income thirtiles—plus a dummy for nonreported income), four subjective evaluations of household income (living comfortably on present income, coping on present income, difficult on present income, and very difficult on present income), having children, unemployed and actively looking for a job, unemployed and not looking for a job, five levels of subjectively evaluated health (very good, good, fair, bad, very bad), five types of urbanization (a big city, suburbs or outskirts of big city, town or small city, country village, and farm or home in countryside), and a measure of religiousness, based on the question “How religious you are?” (with answers ranging from 1 [not at all religious] to 10 [very religious]).

Table 1. Tourist Arrival Rate (Tourist Arrivals/Country Population, in %), by Country, 2002–2013.

Country	Average	Min	Max
Austria	242.76	234.91	250.41
Belgium	65.99	63.12	67.94
Bulgaria	82.93	67.00	94.95
Cyprus	221.03	210.75	229.03
Czech Republic	83.78	74.96	88.72
Germany	29.63	21.78	39.11
Denmark	132.32	63.92	170.23
Estonia	163.35	128.44	217.60
Finland	64.40	54.32	78.06
France	123.94	118.64	128.49
Greece	135.55	126.78	147.68
Croatia	215.11	195.40	231.91
Hungary	96.52	85.90	107.90
Ireland	171.73	156.44	189.41
Israel	29.39	13.12	36.48
Iceland	177.51	126.04	247.09
Italy	72.16	69.10	79.20
Lithuania	64.00	58.62	68.03
Luxembourg	191.88	191.66	196.28
Netherlands	63.64	56.58	76.07
Norway	83.80	68.55	100.20
Poland	36.71	31.17	41.08
Portugal	63.73	53.36	77.43
Russia	17.31	15.04	19.68
Sweden	51.84	47.91	57.11
Slovenia	85.10	65.28	104.81
Slovakia	113.37	98.36	135.25
Spain	124.93	112.54	130.65
Switzerland	104.83	88.98	112.56
Turkey	35.86	27.56	42.37
Ukraine	42.49	37.43	49.72
United Kingdom	45.51	37.57	50.38
Total	89.38	13.12	250.41

Source: World Development Indicators.

Country-level controls. Controls are included for several country-level variables and major events that may have affected residents’ subjective well-being as well as tourist arrivals. These variables are: GDP growth rate, inflation rate, unemployment rate, joining the European Union in the year of the interview, joining the Eurozone in the year of the interview, hosting a major sports event (Olympic games, World or European Football Cup) in the year of the interview, terrorist attack in the year of the interview or the year before, average temperature in the year of the interview and its one-year lagged value, and average level of precipitations in the year of the interview and its one-year lagged value. The summary statistics of all the variables included in the analysis are reported in Table 2.

Table 2. Summary Statistics of the Variables Included in the Analysis (Based on a Total Sample of 263,888 Respondents).

	Mean	Standard Deviation	Min	Max
Life satisfaction	6.791	2.356	0	10
Happiness	7.140	2.058	0	10
Tourist arrival rate	89.383	55.276	13.12	250.41
Age	47.646	18.429	15	123
Female	0.540	0.498	0	1
Married/lives with partner	0.597	0.491	0	1
Household size	2.780	1.457	1	22
Children in the household	0.390	0.488	0	1
Years of education	12.092	4.114	0	56
Low income	0.307	0.459	0	1
Medium income	0.240	0.427	0	1
High income	0.205	0.404	0	1
Income missing	0.253	0.435	0	1
Living comfortably on present income	0.271	0.444	0	1
Coping on present income	0.442	0.497	0	1
Difficult on present income	0.201	0.401	0	1
Very difficult on present income	0.086	0.280	0	1
Unemployed, actively looking for job	0.045	0.208	0	1
Unemployed, not looking for job	0.021	0.145	0	1
Religious	4.817	2.982	0	10
Health very good	0.226	0.419	0	1
Health good	0.414	0.493	0	1
Health fair	0.270	0.444	0	1
Health bad	0.074	0.262	0	1
Health very bad	0.016	0.124	0	1
Big city	0.221	0.415	0	1
Suburb of big city	0.117	0.321	0	1
Town or small city	0.303	0.460	0	1
Village	0.302	0.459	0	1
Farm or home in countryside	0.058	0.234	0	1
GDP per capita growth	1.244	3.602	-14.57	11.07
Unemployment rate	8.320	3.921	2.6	26.1
Inflation rate	3.015	2.715	-4.48	17.65
Year of joining the European Union	0.031	0.173	0	1
Year of joining the Eurozone	0.007	0.081	0	1
Year of hosting an international sports event	0.032	0.175	0	1
Terrorist attack in the last two years	0.032	0.176	0	1
Average temperature (°C)	9.284	5.029	-5.990	21.022
Average level of precipitations (mm)	66.197	24.848	17.898	157.052

Source: European Social Survey and World Development Indicators.

Estimation Strategy

Given the categorical and ordered nature of the dependent variable (happiness and life satisfaction), it would be appropriate to estimate Equation 1 with a nonlinear model, such as ordered logit or probit. However, the empirical literature on subjective well-being has often employed ordinary least squares (OLS), effectively assuming cardinality of the happiness and life satisfaction indices (Ferrer-i-Carbonell and Frijters 2004). The OLS and nonlinear models produce qualitatively similar results (Ferrer-i-Carbonell and Frijters 2004; Ferrer-i-Carbonell and Ramos 2014), and a particular advantage of estimating subjective well-being models with OLS is the ease of result interpretation. This article follows the literature and employs the (fixed effects) OLS as the main method of estimation. The corresponding ordered probit and logit models have also been estimated as a robustness check; the results were consistent with OLS and are available on request.

To test whether the effect of tourism becomes more negative when tourism density is higher, (hypothesis 2), the tourist arrival rate in the baseline model will be replaced with its squared term:

$$\begin{aligned}
 \text{Subjective well-being}_{i,j,t} = & \beta_0 + \beta_1 \text{tourist arrival rate}_{j,t}^2 \\
 & + \beta_2 \text{country level controls}_{j,t} \\
 & + \beta_3 \text{individual level controls}_{i,j,t} \\
 & + \beta_4 \text{country fixed effects}_j \quad (2) \\
 & + \beta_5 \text{year fixed effects}_t \\
 & + \text{error term}_{i,j,t}
 \end{aligned}$$

Note that the tourist arrival rate and its squared term are not jointly included in the same model. This is because such a specification would assume an underlying U-shaped relationship between the tourist arrival rate and subjective well-being.

It is important to note that when estimated with OLS, the coefficients of interest (β_j in models 1 and 2) should be interpreted as conditional correlations rather than causal effects. While a broad range of potential country-level confounding variables have been included as controls, there may still be some omitted variables driving both subjective well-being and tourist arrivals. To mitigate this endogeneity issue and move closer to causal evidence, this study employs the instrumental variable method. This method relies on the availability of an instrument—a variable that is highly correlated with the endogenous regressor (tourist arrival rate) and that affects the outcome variable (residents' well-being) only through this endogenous regressor. The average of the tourist arrival rates in years $t-1$ and $t-2$ will be used as an instrument for the current (year t) tourist arrival rate: it is expected that past tourist arrivals predict the current arrival rate well, and one can reasonably assume that they have limited direct influence on the current well-being of the residents. The estimation consists of two

stages: (1) in the first stage, the tourist arrival rate is regressed on the instrument and all the control variables, and (2) in the second stage, the predicted values of the first stage dependent variable are used as a regressor, alongside all the control variables. The standard F test of the excluded instrument will be used to test its relevance.³ For more information on the instrumental variable technique and its application in tourism research, see, for example, Belenkiy and Riker (2012).

Concerning the temporal structure of the data, the ESS is conducted biannually with each round spanning over two years. Information is available as to which year a particular interview was conducted, and this information reveals that within several country-rounds the interviews were conducted in both years of the round. For example, looking at the respondents from Belgium in ESS Round 1 (2002/03), 40% were interviewed in 2002 and 60% in 2003. This effectively allows increasing the temporal variation of the data, which is why the empirical analysis relates the subjective well-being of residents to tourist arrivals in a particular year (rather than in a two-year wave).

All estimations include both the design weight and the population weight,⁴ as recommended by the ESS architects. In addition, given that individual-level outcomes are explained by country-level variables, the standard errors are clustered at the country level. While the absence of clustering results in downward-biased standard errors and inflated *t* statistics (Moulton 1990), clustering standard errors when the number of clusters is relatively low (5–30) may lead to the overrejection of statistically significant estimates (Cameron, Gelbach, and Miller 2008). Keeping in mind that the number of clusters in our analysis (32, the number of countries) is close to the upper limit, the results reported in this article will represent conservative estimates of the regressors' *t* statistics.

Results

OLS Results

Table 3 reports the results of the OLS fixed-effects models for the whole sample. In the linear specification (columns 1 and 2) the coefficient of the tourist arrival rate is negative and significant at 10% ($p = 0.07$) in the life satisfaction model but statistically insignificant in the happiness model. In the quadratic specification (columns 3 and 4), the squared term of the tourist arrival rate is negative and highly significant ($p < 0.01$) in the life satisfaction model, and negative but only marginally significant ($p = 0.09$) in the happiness model. These results lend support for hypotheses 2 and 3 and, to a more limited extent, hypothesis 1.

To get a better understanding of the size and nature of the estimated relationship between the variables of interest, Figure 1 plots the predicted values, based on the specification presented in column 3 of Table 3 (the most statistically significant result), of life satisfaction as a function of tourist arrival rate, which in our sample ranges between 13% and

250% of a country's population. The graph shows that while life satisfaction decreases with an increasing tourist arrival rate at all levels of tourism intensity, the association becomes stronger as tourism intensity increases. For example, a 50 percentage point increase in the tourist arrival rate would be associated with a reduction in residents' life satisfaction of 0.04 units (from 6.60 to 6.56) in a country with a relatively low initial tourist arrival rate (10% of the population). The same percentage point increase in tourist arrivals would be associated with a reduction in residents' life satisfaction of 0.15 units (from 6.48 to 6.33) in countries with an initial tourist arrival rate equal to 100% of the population, and by 0.28 units (from 6.11 to 5.83) in countries with an initial tourist arrival rate equal to 200% of the population.

The results of the sociodemographic and country-level controls comply with the empirical findings of the broader literature. Subjective well-being has a U-shaped relationship with age: life satisfaction decreases with age until the threshold age of 36 and increases thereafter (the threshold for happiness is 31 years). Women and respondents who are married or live with a partner have higher subjective well-being. Larger household size is associated with higher levels of happiness (but not life satisfaction), and having children tends to reduce both life satisfaction and happiness, other things equal. More educated respondents tend to feel happier but not necessarily more life satisfied. Income, and especially its subjective evaluation, is a strong positive predictor of subjective well-being, although its effect on happiness is smaller than on life satisfaction. The unemployed, less religious, and less healthy people report lower levels of subjective well-being, while people living in rural areas are somewhat more likely to be happy and, especially, life satisfied. Concerning the country-level controls, higher GDP per capita growth and lower unemployment rates are, as expected, associated with higher levels of subjective well-being. Interestingly, higher inflation is also associated with higher happiness and life satisfaction. This should not be surprising, as our sample consists mostly of high-income and upper middle-income European economies. Over the period 2002–2013, higher inflation in these countries was associated with economic booms, while lower inflation was more typical to recessions. Joining the Eurozone, but not the European Union, provides a boost in subjective well-being, while hosting an international sports event is, somewhat unexpectedly, associated with a drop in both happiness and life satisfaction. A terrorist attack in the past two years reduces subjective well-being. Among the weather-related variables, only higher average temperatures in the previous year are associated with higher levels of life satisfaction.

Instrumental Variable Regression Results

Table 4 shows the results of the full-sample models estimated with the instrumental variable technique. In both linear and quadratic specifications, the instrument (average of the

Table 3. Tourist Arrivals and Subjective Well-being, OLS Fixed-Effects Regressions, Whole Sample.

	Dependent Variable			
	Life Satisfaction	Happiness	Life Satisfaction	Happiness
Tourist arrival rate	-0.003*	-0.005	–	–
Tourist arrival rate ² /1,000	–	–	-0.012***	-0.015*
Sociodemographic controls				
Age	-0.072***	-0.061***	-0.072***	-0.061***
Age squared	0.001***	0.001***	0.001***	0.001***
Female	0.088***	0.100***	0.088***	0.100***
Married/lives with partner	0.414***	0.643***	0.414***	0.643***
Household size	0.019	0.036***	0.019	0.036***
Children in the household	-0.047*	-0.057**	-0.046*	-0.057**
Years of education	0.001	0.009*	0.001	0.009*
Household per capita income level				
1st income thirtile (low income)	Ref.	Ref.	Ref.	Ref.
2nd income thirtile (medium income)	0.070**	0.019	0.070**	0.020
3rd income thirtile (high income)	0.159***	0.061**	0.160***	0.062**
Subjective income evaluation				
Living comfortably	Ref.	Ref.	Ref.	Ref.
Coping	-0.558***	-0.355***	-0.558***	-0.355***
Difficult	-1.395***	-0.965***	-1.395***	-0.965***
Very difficult	-2.214***	-1.590***	-2.214***	-1.590***
Unemployed, actively looking for job	-0.668***	-0.378***	-0.668***	-0.378***
Unemployed, not looking for job	-0.361***	-0.234***	-0.361***	-0.234***
Religious	0.074***	0.063***	0.074***	0.063***
Subjective health evaluation				
Very good	0.448***	0.453***	0.448***	0.453***
Good	Ref.	Ref.	Ref.	Ref.
Fair	-0.589***	-0.501***	-0.589***	-0.501***
Bad	-1.309***	-1.188***	-1.309***	-1.188***
Very bad	-2.296***	-2.066***	-2.296***	-2.066***
Type of settlement				
Big city	Ref.	Ref.	Ref.	Ref.
Suburb of big city	0.024	-0.012	0.024	-0.011
Town or small city	0.038	0.032	0.038	0.033
Village	0.114***	0.073**	0.114***	0.074**
Farm or home in countryside	0.143***	0.059	0.144***	0.060
Country-level controls				
GDP per capita growth	0.018***	0.010*	0.018***	0.010*
Unemployment rate	-0.029***	-0.022***	-0.029***	-0.022**
Inflation rate	0.020***	0.026***	0.020***	0.027**
Joining the European Union	0.016	0.067	0.003	0.038
Joining the Eurozone	0.358*	0.279***	0.366*	0.309***
Hosting an international sports event	-0.086**	-0.202**	-0.082**	-0.191**
Terrorist attack in the last two years	-0.113*	-0.156***	-0.123**	-0.178***
Average temperature	0.031	-0.017	0.030	-0.017
Average temperature, lagged	0.075**	0.063	0.073**	0.059
Average level of precipitation	0.002	0.002	0.002	0.002
Average level of precipitation, lagged	0.001	0.000	0.001	0.001
Year dummies (12)	Yes	Yes	Yes	Yes
Country dummies (32)	Yes	Yes	Yes	Yes
Observations	263,888	263,522	263,888	263,522
R-squared	0.305	0.265	0.305	0.265

Note: ***p < 0.01, **p < 0.05, *p < 0.1, robust standard errors, clustered at the country level, used to calculate the regressors' level of significance. All estimations apply both the population weight and design weights. OLS = ordinary least squares.

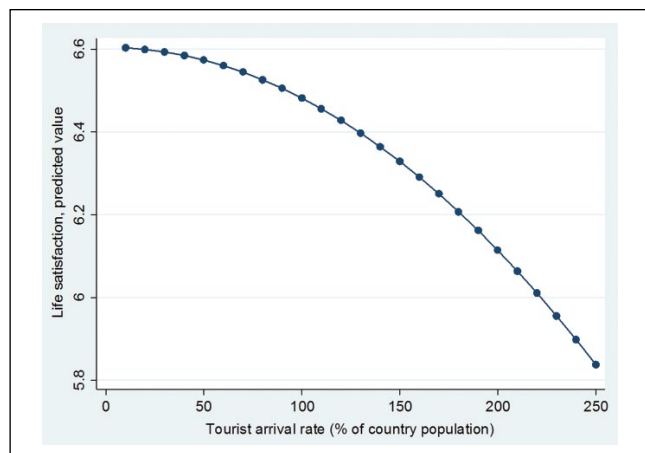


Figure 1. Predicted life satisfaction and tourist arrival rate.
Source: Author's calculations based on data from the European Social Survey.

tourist arrival rates of years $t-1$ and $t-2$) is a strong positive predictor of the endogenous regressor (arrival rate of year t), with the values of the first-stage F test of excluded instrument by far exceeding the commonly accepted threshold value of 10. The second-stage results of the instrumental variable estimation suggest that tourist arrivals have a negative effect on the residents' satisfaction in both linear and quadratic models (the p values of the estimated coefficients are 0.04 and 0.08, respectively); the magnitude of the coefficients is in line with the corresponding OLS regressions reported in Table 3. The coefficients of the tourist arrival rate are statistically insignificant in the happiness models, implying that the tourist arrivals have no effect on the residents' happiness levels. Overall, the results support hypotheses 1–3: tourist arrivals reduce residents' subjective well-being, this link gets stronger with tourism intensity, and tourist arrivals affect only life satisfaction (and not happiness).

Subgroup Results

Table 5 reports the results of the models for younger and older people, those with relatively low and relatively high levels of education, and rural and urban residents. Similarly to the full-sample estimations, the model explaining life satisfaction with the squared tourist arrival term appears to be the most precise in the OLS estimations (Panel A), implying a negative association between life satisfaction and tourist arrivals across all subgroups. Differences, however, exist in the size of the estimated coefficients: the negative association tends to be stronger among the older respondents, those with lower levels of education and people living in rural areas relative to their younger, more educated, and urban counterparts. The results of the instrumental variable estimations (panel B of Table 5) support a causal negative effect of tourist arrivals on the life satisfaction for all subgroups, except older people, where the coefficient is negative but

insignificant. In terms of the effect magnitude, the greatest difference is obtained for rural residents (the absolute value of the estimate is twice as high for rural than urban residents in both linear and quadratic life satisfaction specifications), while the difference is lower in the education samples. Overall, both the OLS and instrumental-variable results partly support hypothesis 4: tourist arrivals are more detrimental for the subjective well-being of rural than urban residents. Meanwhile, the evidence for the age and education groups is less clear-cut.

Discussion and Conclusion

This study aimed at establishing the effect of tourist inflows on the subjective well-being of receiving country populations. The empirical analysis, based on data from the European Social Survey, conducted in 32 countries over 12 years, revealed that residents' subjective well-being, and more specifically its evaluative component (life satisfaction), decreased with tourist arrivals at an increasing rate. The instrumental variable estimations, where the current tourist arrival rate was predicted with the tourist arrivals rates of previous years, supports the causal nature of the negative relationship between tourist inflows and residents' life satisfaction.

The findings of this study indicate that the most affected by tourism are the residents in countries where tourist arrivals (as a percentage of country population) are large and rapidly growing. For example, recently the tourist arrival rate has increased from 206% to 257% (2010–2013) in Croatia, from 155% to 200% (2008–2010) in Estonia, and from 210% to 247% (2012–2013) in Iceland. The model predicts that such increases in the arrival rate would be associated with a fall in life satisfaction of up to 0.20 units on a 0/10 scale—a nonnegligible effect, comparable to a half of the positive effect on life satisfaction of being married/living with a partner. In contrast, residents of countries where tourist inflows are lower (relative to country population) and/or do not change much over time would not experience a significant fall in life satisfaction. The examples would be Germany, the United Kingdom, Russia, Poland, Ukraine (the tourist arrival rate in these countries generally has not exceeded 50%), and Spain, Belgium, Ireland, France, and Italy (the average tourist arrival rates for 2002–2013 were between 50% and 150%, and have changed little over the period of observation).

The finding that tourist arrivals reduce life satisfaction, especially where tourist arrival rates are large and rapidly growing, has policy implications. While tourist arrivals are likely to generate economic growth and employment, tourism may also make residents less life-satisfied. This is particularly relevant to policies aiming at promoting large tourist inflows in short periods of time. A recommendation here would be to develop policies that would result in gradual rather than large, one-off increases in tourist arrivals.

Table 4. Tourist Arrivals and Subjective Well-being, Instrumental Variable Regressions, Whole Sample.

	Dependent Variable			
	Life Satisfaction	Happiness	Life Satisfaction	Happiness
Tourist arrival rate	-0.0035**	-0.0032	-	-
Tourist arrival rate ² /1,000	-	-	-0.0103*	-0.0018
Sociodemographic controls	Yes	Yes	Yes	Yes
Country-level controls	Yes	Yes	Yes	Yes
Country and year fixed effects	Yes	Yes	Yes	Yes
Instrument	Average of tourist arrival rates of years <i>t-1</i> and <i>t-2</i>		Average of tourist arrival rate squares of years <i>t-1</i> and <i>t-2</i>	
<i>F</i> test of excluded instrument (p value)	75.05 (0.000)	74.92 (0.000)	136.34 (000)	136.12 (000)
Observations	256,421	256,057	256,421	256,057

Note: ***p < 0.01, **p < 0.05, *p < 0.1. Robust standard errors, clustered at the country level, used to calculate the regressors' level of significance. All estimations apply both the population weight and design weights. The same controls as in Table 3 are included in all regressions; only the coefficients of the variables of interest (tourist arrival rates) are reported. Regressions estimated with the *ivreg2* command in *Stata 13*. Full econometric output is available from the author on request.

Table 5. Tourist Arrivals and Subjective Well-being, OLS Fixed-Effects and Instrumental-Variable Estimations, by Age Group, Education, and Type of Settlement.

Estimation Method →		A. OLS Fixed Effects				B. Instrumental Variable			
Dependent Variable →		Life Satisfaction		Happiness		Life Satisfaction		Happiness	
Sample ↓	Regressor of Interest →	Tourist Arrival Rate	Tourist Arrival Rate ² /1,000	Tourist Arrival Rate	Tourist Arrival Rate ² /1,000	Tourist Arrival Rate	Tourist Arrival Rate ² /1,000	Tourist Arrival Rate	Tourist Arrival Rate ² /1,000
	Younger people (<50 years)	-0.003	-0.011**	-0.005*	-0.015*	-0.004**	-0.014**	-0.003	-0.003
	Older people (50 and older)	-0.004*	-0.014***	-0.006	-0.014	-0.003	-0.007	-0.005	-0.002
	Less than 12 years of education	-0.005**	-0.017***	-0.010*	-0.024*	-0.005**	-0.012*	-0.006*	-0.003
	12 or more years of education	-0.002	-0.009**	-0.002	-0.008*	-0.003**	-0.011**	-0.007	-0.003
	Rural residents	-0.004	-0.015*	-0.006	-0.019*	-0.006**	-0.017*	-0.004	-0.008
	Urban residents	-0.002*	-0.011***	-0.005	-0.013	-0.003*	-0.009*	-0.003	-0.001

Note: ***p < 0.01, **p < 0.05, *p < 0.1; robust standard errors, clustered at the country level, used to calculate the regressors' level of significance. Results based on 48 regressions (eight model specifications for six sociodemographic groups), reporting, for each regression, only the coefficient of the variables of interest (tourist arrival rate or tourist arrival rate squared). All regressions include the same controls, as well as country and year fixed effects, as in Table 3. The *F* value of the excluded instrument test in all cases exceeds 10. Full results are available from the author on request.

The second finding of this study is that tourist inflows affect negatively life satisfaction, while their relationship with happiness tends to be insignificant. If one assumes that tourists affect the life satisfaction of residents through the evaluation of tourism effects (thinking/remembering), and happiness is affected by actual encounters with tourists (experiencing/spontaneity), the results would suggest that the evaluation of tourism impacts is a more important driver of subjective well-being than actual encounters with tourists. These findings and reasoning corroborate the work of Nawijn and Mitás (2012), who find that the perceived impacts of tourism are associated with life satisfaction but not happiness.

Finally, the analysis showed that life satisfaction of rural residents tends to decrease with tourist arrivals to a greater extent than the subjective well-being of their urban counterparts. It is possible that for rural dwellers the net benefits from tourism are

low and actual encounters with tourists result in more discomfort than joy. These findings are relevant for decision makers wishing to promote tourism in rural areas.

Limitations and Directions for Future Research

While this work represents the first step toward uncovering and conceptualizing the effects of tourist arrivals on the subjective well-being of tourist-receiving populations, it has several limitations, which open directions for future research. First, the study suggested two channels through which tourist arrivals might affect residents' subjective well-being (the net effect of tourism on one's well-being and actual encounters with tourists), but the data at hand provided very limited possibilities to test the relative importance of these channels for well-being. In addition, it is possible that the net effect of

tourism and tourist arrivals have a differential effect on the domains of life satisfaction (satisfaction with income, job, health, leisure, etc.), as well as on different manifestations of positive and negative affect (joy, sadness, stress, etc.). While recent work has already considered the links between these more nuanced measures of well-being and perceived tourism impacts (Andereck and Nyaupane 2011; Kim, Uysal, and Sirgy 2013; Nawijn and Mitas 2012; Woo, Kim, and Uysal 2015), future research might study their relationship with actual tourist arrivals.

Second, this study has used a repeated-cross-sectional survey to determine how residents' subjective well-being changes with tourist arrivals over time. Given that all country-wave samples were randomly drawn from the underlying populations, this should not lead to issues of sample selection, which could otherwise bias the results. However, ideally one would want to use panel data, where the *same* respondents are observed *over time*. Large panel surveys have been recently used to determine the effects of holiday-taking on tourists' well-being (Pagán 2015; Kroesen and Handy 2014), and such data may also provide valuable insights into the effects of tourist arrivals on the well-being of resident populations.

Third, while this study has conjectured that tourism may have an impact on the well-being of residents living in both tourist and nontourist areas, a distinction between the two groups has not been made in the empirical analysis. Future research could use regional statistics to identify tourism intensity at a more local level (regions, cities, communities), and perform a longitudinal analysis of the relationship between tourist arrivals and residents' well-being at a geographically more disaggregated level.

Finally, the study has explicitly focused on the effects of international tourist arrivals. In many countries, domestic tourist flows are at least as large as their international counterparts, and future research could consider whether the subjective well-being of residents responds differently to the two types of tourism.

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Notes

1. However, older people may appreciate tourism more than younger people, especially if they have experienced economic hardship in the relatively recent past (Nguyen, Rahtz, and

Shultz, 2014). In the context of the current study, this could be the case for post-Socialist countries. While sensitivity checks did not uncover substantive differences in the tourism-host well-being relationship between Western and Eastern Europe, future research could consider whether regional differences arise in particular age groups.

- Unfortunately, the European Social Survey does not contain questions on satisfaction with different life domains, which would have allowed for a more nuanced analysis.
- To check instrument exogeneity, the Sargan-Hansen test of over-identifying restrictions was also performed. As this test requires more than one instrument, tourist arrival rates of years $t-1$ and $t-2$ were included as separate instruments. The test confirmed that the instruments are exogenous (uncorrelated with the error term). Note that it is not possible to run this test after estimating sample-weighted regressions, which is why weights were not used in this case.
- Given that sample sizes for different countries are comparable while the actual country populations differ significantly, the population weight accords greater importance to the respondents from larger countries, such as Germany, France, or Russia but suppresses the "voice" of respondents from smaller countries, such as Estonia, Iceland, or Cyprus. One might wonder how the results would differ if small countries were accorded the same weight as large countries. Estimating the model without the population weight produced qualitatively similar results to the population-weighted case. This means that the effect of tourist inflows on subjective well-being is not driven by the size of the country.

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Author Biography

Artjoms Ivlevs is Associate Professor of Economics at the Bristol Business School, University of the West of England (UWE Bristol) and Research Fellow at the Institute for the Study of Labor (IZA, Bonn). His research interests include economics of happiness and migration, with a particular focus on the post-socialist economies of Central and Eastern Europe.