Recent Developments in the Economics of Happiness

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Introduction

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What makes people happy in life? This is a crucial question that has the potential to shake up economics. In recent years, the dissatisfaction with the understanding of welfare in economics together with the new opportunities to empirically study people’s subjective well-being has spurred impressive and stimulating new research in the often called dismal science. The economics of happiness has emerged as one of the most thriving area in current economic research.

This volume presents a collection of important contributions to the economics of happiness that characterize the recent developments in the area. The papers build on an early literature that has been documented in Richard Easterlin’s collection ‘Happiness in Economics’ (2002) in the same series.

In this introductory chapter, we put these papers in the context of the literature at large. We are aware that this is a difficult venture. The number of published articles referenced in EconLit in any given year that mention happiness, life satisfaction or subjective well-being in the title or abstract has increased from 3 in 1986–90 to 146 in 2011. Figure 1 depicts the development in the number of referenced publications since the early nineties. It clearly shows a take-off after 2000. Many more papers are in the pipeline and available as working papers. Google Scholar lists more than 20000 papers for the year 2011 that include the terms happiness and economics somewhere in the text.

We present the selected papers as representative for a specific theme or question in the whole research enterprise, and we supplement them with additional references. We do not claim that our collection is comprehensive. However, the selection and the references in this introduction should facilitate access to the recent developments in the economics of happiness.

We organize the selection of articles as well as this chapter along five broad issues. First, we refer to reviews of the literature, the measurement and the relationship of happiness research to welfare economics (Part I). Second, we emphasize four factors from the large literature on the determinants of happiness in economics, i.e., income, employment, social capital and health (Parts II and III). In fact, the main body of research in this new area is on the preconditions or covariates of high individual well-being. Third, important studies applying the so-called Life Satisfaction Approach as an alternative valuation approach are discussed (Part IV). Fourth, we point to contributions that elaborate on the understanding of utility in terms of people’s adaptation to circumstances and their difficulties in predicting future utility (Part V). Fifth, we provide references to the controversial question regarding the policy consequences of this new development (Part VI).
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Source: Own compilation based on EconLit.

Figure 1  Number of published articles on the economics of happiness referenced in EconLit between 1986 and 2011

Part I  Major Contributions: Reviews of the New Approach

The economics of happiness as an area in economics has developed so far as a strongly empirical endeavor. It is spurred by the direct measurement of individuals’ well-being. Thereby, economists built on instruments tested in psychology and included in many surveys by pollsters. While the various self-reported measures are the basis for the area’s academic success, they are also still subject to many controversial discussions about the merits of the new approach in economics. Not all criticism is equally productive. Fundamental rejections of the new research tend to neglect a comparative perspective with past research and disregards the potential of happiness research to provide complementary insights. However, the skepticism has also motivated many productive analyses on the validity of the empirical measures (e.g. Krueger and Schkade 2008, Oswald and Wu 2010), has led to the development of new statistical tools to analyze survey data, has given rise to new measures of subjective well-being, and has invigorated the debate about welfare in economics.

a) Measuring Happiness

Happiness or subjective well-being, how the various cognitive life evaluations and emotional reports are often called, can be measured by a number of instruments. Single- and multi-item survey questions on satisfaction with one’s life capture the more evaluative aspects of individuals’ well-being. The more emotional aspects are captured by questions on moment-to-
moment affect. Two main approaches exist for the experienced well-being of affect. Psychologists have been applying the Experience Sampling Method for years. It collects information on individuals' actual experiences in real time in their natural environments (see, for example, Stone et al. 1999). Recently, a related new approach has been developed in a collaboration by psychologists and economists, the Day Reconstruction Method (DRM). People are asked to reflect on how they felt during all the life episodes they went through the previous day (Kahneman et al. 2004). Compared to the life satisfaction evaluation, the goal of the DRM is to get descriptions of emotional states and measures of well-being that are less formed by processes of retrospection. Furthermore, in combination with the time use information, the DRM aims to establish a cardinal indicator of well-being, by considering the time spent in a predominantly negative affective state. The recent developments in the measurement of subjective well-being are discussed in Kahneman and Krueger (Chapter 2 in this volume) and Helliwell and Barrington-Leigh (2010). Many further arguments are brought up in a conference volume on the DRM as a concept for national accounts of time use and well-being (Krueger 2009).

b) Welfare in Economics

The various measures mentioned capture different aspects of individual well-being and thus different concepts of individual welfare. For a measure of reported subjective well-being to serve as a proxy for individual welfare, an important assumption is necessary: The standards underlying people's judgments are those which an individual would like to pursue in realizing his or her ideal of the good life. People's judgments about their lives can then serve as a proxy for their individual welfare. People are assumed to pursue individual welfare based on some stable evaluation standards. Moreover, the extent to which individual welfare is identified depends on whether the evaluation metric fits people's judgments about their lives.

The normative basis of the happiness approach thus goes beyond assuming the pursuit of happiness, and also involves choosing the concrete evaluation metric to elicit people's judgments. An excellent account of the ambiguities of welfare in the context of economics and hedonic psychology is provided in Kelman (Chapter 3 in this volume).

The ambiguities can be expressed in familiar terms. Some people might favour a distant look reflecting on their life after the fact, while others favour a reasoned ex ante evaluation as their standard of evaluation. Still others might give priority to how they felt when experiencing the course of life.

Imagine people who see happiness or high individual welfare as something like the 'positive, persistent attitude towards both particular experiences and life experience more generally that a person feels upon repeated reflection' (ibid., p. 408). For them, general evaluations of their satisfaction with life as a whole might be an appropriate metric to capture judgments about individual welfare. For people equating individual welfare with moment-to-moment affect, individual welfare might be best measured by approaches such as the experience sampling method or the DRM.

c) Reviews of the New Approach

In addition to specific reviews on the measurement of subjective well-being from an economic
Part II  Economic Determinants of Subjective Well-Being

A large part of happiness research in economics explores the determinants of subjective well-being. It is motivated by the ambition to understand the drivers of individual well-being in order to improve the human lot. In essence, causal relationships and pathways have to be identified to pursue this route. Thus, all the identification issues emerge that are well known in economic evaluation research. While experiments are attractive to approach identification issues, they are still rare with respect to the conditions of well-being. Accordingly, researchers have to be creative in deriving insights from less than optimal data. In this respect, the study of individual panel data derived from repeated representative surveys of the same persons turns out to be productive. It allows for the control of unobserved, individual and specific characteristics that might well be correlated with individual reporting behavior, as well as with the experience of a condition such as unemployment, for example. Similarly, the study of repeated cross-sections at the country level allows for control over factors that generate unobserved heterogeneity between countries. As countries differ in many respects, even with the inclusion of numerous control variables, partial correlations from simple cross-section analyses are at risk of an omitted variable bias. Moreover, as almost any factor can be imagined to have a direct influence on a person’s well-being, instrumental variable approaches are difficult to convincingly apply.

Despite these inherent difficulties in the study of the determinants of happiness, many valuable insights have been provided. Moreover, economists have started to explore the effect of positive and negative affect as well as life satisfaction on behavior. The better the mutual relationship is understood, the firmer the conclusions about the sources of individual well-being are possible.

a) Income

Within the many factors that potentially affect human well-being, income is by far the most prominent in economic happiness research. This might not come as a surprise as income or a person’s material living standard, normally captured by GDP or GNP, is the main empirical indicator of individual welfare in received economics. To put into doubt that income and happiness are close correlates, constitutes an important challenge to traditional economics.

Many empirical tests reveal a substantial correlation of higher income with higher subjective well-being. This holds for people living in households with a high income and/or earning a high labor income but also in general for people living in a rich rather than in a poor country.
The controversy emerges, when it comes to the relationship between income growth and the development of subjective well-being over time. Are the empirical observations consistent with the cross-section correlation between income per capita and average subjective well-being across countries? Does income growth produce higher average subjective well-being? Proponents of the Easterlin Paradox such as Easterlin et al. (Chapter 6 in this volume), claim that it does not. In contrast, critics of the relativist position see the findings compatible with absolute income contributing to higher subjective well-being (for example, Stevenson and Wolfers, Chapter 5 in this volume). Clark et al. (Chapter 4 in this volume) review this debate as well as the potential explanations.

The issue is still open largely because of limited long-term data for a large sample of countries. Statistical tests are not powerful enough to reject the hypotheses that there is no correlation between income growth and happiness growth as well as that the correlation between income growth and happiness growth is statistically significantly smaller than the one implied by the cross-section correlation between income per capita and average subjective well-being in a country. Sample selection is important in such tests. Is evidence for the US – where there seems to be no long-term correlation between income growth and happiness – sufficient to support the claim? Do we interpret the income development in the transition economies as long-term growth or as a recovery from the historic break-up of communism and the command economy?

The latter question hints at an even bigger challenge in the interpretation of the happiness development in countries over time. What are the underlying processes and causal relationships that lead to the observed correlations between income and happiness? To what extent does a happy population indicate conditions that are conducive to a prosperous economy? There might well be factors like favorable political institutions that promote happiness as well as economic success. Happiness in nations might then well capture the extent to which the institutional structure in a society allows people to benefit from the organizational and technological possibility frontier.

There are also more traditional arguments questioning GDP as an indicator of people's welfare. For example, not all the sources for increases in statistically measured national income are considered welfare enhancing. Public expenditures for reconstruction after a catastrophe are a prominent one.

For us, the lesson to accept is that there is more than absolute income. The level of income captures more than a relative position either within a society or between societies. This aspect has been fruitfully explored in the economics of happiness (see Clark et al. [Chapter 4 in this volume] for a review). In particular, the notion of relative income has been filled with empirical content. The impact of the relative income position within one's neighborhood is convincingly explored in Luttmer (Chapter 7 in this volume) showing a negative effect of local average earnings on self-reported happiness ceteris paribus, i.e. controlling for an individual's own income. This empirical finding is consistent with the idea that people form aspirations about their income based on social comparisons and due to processes of adaptation to previous income. Income aspirations have been empirically approximated based on people's reports about what they consider to be a sufficient income for their household. Reported subjective well-being is found to strongly depend on the discrepancy between household income and the reported aspirations (for example, Stutzer [Chapter 8 in this volume], Knight and Gunatilaka
2012). Income aspirations thus seem an important mediator variable when we want to understand how income and subjective well-being are related.

Many questions have remained open so far. What are the drivers of income aspirations and – when they are formed by social comparisons – who compares to whom? Interesting first insights are provided based on recent survey evidence (Clark and Senik 2010). For example, high-income people engage less in income comparisons than low-income people and colleagues are the most prominent reference group. Another issue concerns the marginal utility of income. Previous research provides evidence that the elasticity with respect to income is smaller than minus one (Layard et al. 2008). However, partial correlations for the effect of income on subjective well-being are often difficult to interpret. This not only holds in cross-section analyses involving issues of reversed causality and omitted variable bias but also in panel data studies. Our concern refers to the limited available information about the reasons for the variation in people’s or households’ income. If people earn more because they put in more effort or time or accept a more stressful job, these income gains are fundamentally different from some vague idea of a windfall income gain. In recent work, new sources for income variation have been exploited to get a better idea of the marginal utility of income, like, for example, inter-industry wage differentials (Pischke 2011).

b) Employment

There is a long tradition of research on the conditions at the workplace that contribute to a satisfying job: People are either directly asked about the importance of various job attributes, or the determinants of reported job satisfaction are explored in multiple regression analyses. This research is meaningfully complemented by recent work on general well-being or life satisfaction in economics. A productive comparison is the one between employees and self-employed people revealing that autonomy on the job is a valuable source of utility for which self-employed people are willing to accept a lower expected salary (Frey and Benz 2008). Probably even more is revealed about employment as a source of individual well-being if the phenomenon of unemployment is taken into account.

In early contributions reprinted in Easterlin (2002), as well as in many more recent empirical analyses, being unemployed is related to systematically lower subjective well-being than being employed. This holds even if the loss in income is statistically taken into account. It reflects that individual unemployment involves psychic costs due to a loss of social status, self-esteem, personal relationships and a disciplining time structure bound to a workplace. In recent work, this general insight has been refined. For example, company closures are studied as a reason of unemployment revealing large non-pecuniary costs of job loss (Kassenboehmer and Haisken-DeNew 2009). In other work, the psychic costs of unemployment are related to social work norms (Clark 2003, Stutzer and Lalive 2004). Moreover, long-term studies reveal limited adaptation to unemployment (Clark 2006) as well as negative effects on subjective well-being even after re-employment, so called scarring effects (Clark et al. 2001, Knabe and Rätzel 2011). However, it is also observed that moment-to-moment net affect need not be lower for unemployed people even if they report significantly lower satisfaction with their life (Knabe et al. 2010).

High unemployment rates also have negative effects on people who are not personally affected by unemployment. Based on Eurobarometer data from 12 European countries
between 1975 and 1992, Di Tella et al. (Chapter 9 in this volume) show that aggregate unemployment decreases average reported life satisfaction beyond changes in aggregate income. The potential reasons include direct effects of unemployment on crime and public finances, but also aspects specific to the workplace like changes in working hours and salaries. Moreover, high unemployment also affects anticipated economic distress. For instance, the probability that a worker may himself experience a spell of unemployment in the future increases. A large amount of literature documents the importance of self-reported job security on individuals’ well-being (see for example, Green 2011).

In an empirical study, Luechinger et al. (2010) isolate the latter source of reduced individual welfare: the negative anticipatory feelings of angst and stress due to economic insecurity. In order to distinguish between general negative externalities of unemployment and changes in economic risks to individuals, workers are studied in two sectors of the economy that differ fundamentally in their exposure to economic shocks – people working in the private sector and those working in the public sector. Public sector employees usually enjoy extended protection from dismissal and work in organizations that very rarely go bankrupt. In their study for Germany, they find that people working in the private sector are affected more strongly by general economic shocks than are those working in the public sector. This suggests that a substantial fraction of the psychic costs brought about by general unemployment is due to increased economic insecurity.

Part III  Social Capital and Health

In order to put the economic determinants of happiness into perspective, the study of alternative sources of well-being is revealing. It turns out that happiness depends much on personal relationships, i.e. the quantity and quality of social relations that people have with family, friends, work mates and fellow community members. If these relationships, often referred to as social capital, are good, people experience high subjective well-being (for a review, see Helliwell and Putnam [Chapter 10 in this volume], and Powdthavee 2008).

Important, the benefits of social capital are not confined to outcomes like informal mutual assistance or the access to valuable information due to weak ties. There is rather a strong non instrumental component of interpersonal relationships that contributes to individual well-being. These so called relational goods involve socializing as an important aspect. They also have a public good component as one persons’ engagement in social relations makes them more rewarding for others (Becchetti et al., Chapter 11 in this volume). In addition to socializing, there is also empirical evidence that performing volunteer work is rewarding in itself (for example, Meier and Stutzer 2008).

Given the importance of social relations for human well-being, changes in their quality have been argued to drive long-term trends in people’s reported subjective well-being (Bartolini 2012, Sarracino 2010). To what extent the development of happiness over time has to be understood as an interaction between economic factors and aspects of social capital is so far an open issue.

a) Health

Researchers in social sciences other than economics have been studying the relationship
between health and happiness for years. They document negative correlations between ill health and subjective well-being. Economists are reluctant to claim the identification of causal effects going from health to happiness. Happy people might well forget about physical health problems or disregard them when asked. In fact, there is convincing evidence for happiness being beneficial for health and for increasing longevity (Diener and Chan 2011). In addition to reverse causality, there is the issue of third variables affecting both happiness and health. Important candidates are a person’s personality or genetic make-up that affect in particular mental health.

Despite the inherent difficulties in exploring the relationship between health and happiness, there are interesting insights from economics in this area. For example, people who become disabled are found to experience lower life satisfaction particularly so in case of severe disability. Moreover, there is evidence for adaptation. Importantly though, people only partly adapt to their situation. Within the first three years, fifty per cent of the effect for moderate and thirty per cent for severe disability dissipates (Oswald and Powdthavee, 2008). There is also evidence that the marginal utility of consumption varies with health. Based on measures of subjective well-being, Finkelstein et al. (2010) find that a deterioration in health is associated with a decline in the marginal utility of consumption.

At the aggregate level, health measured in terms of life expectancy is found to play a limited role in explaining cross-country patterns in subjective well-being (Deaton, Chapter 12 in this volume). Controlling for per capita income, life expectancy is not correlated with average life satisfaction, neither is a variable that identifies countries with high HIV prevalence. In contrast, changes in life expectancy are found to be positively correlated with life satisfaction. Given that health and life expectancy are often considered welfare indicators much further research seems advisable.

b) Additional Factors

There are, of course, many more factors that affect individuals’ well-being and that are of interest to economists. This not only holds for economic variables like inflation (see, for example, Wolfers 2003) or income inequality (see, for example, Alesina et al. 2004) but also for socio-demographic characteristics that are affected by public policy such as, for example, the level of education (see, for example, Oreopoulos and Salvanes 2011). Moreover, political economists emphasize the role of basic political institutions of democracy and federalism (for example, Frey and Stutzer 2000), while environmental economists hint to evidence on, for example, the effect of air pollution on people’s subjective well-being (see next section). Additional references to many of these factors can be found in the survey papers mentioned above.

Part IV Valuing Public Goods: The Life Satisfaction Approach

The study of happiness data provides evidence on the extent to which living conditions are adverse or favorable to people. For example, environmental degradation may be reflected in lower subjective well-being. This line of empirical research opens up a new approach for the valuation of public goods. The benefits derived from public goods are inherently difficult
to measure because they are not directly exchanged on markets. But public agencies in particular have a demand for the measurement of preferences for public goods. Increasingly, they are required by law to provide cost-benefit analyses to evaluate the social desirability of government programs.

The economics of happiness provides a promising complementary method that avoids some of the major difficulties inherent in previous approaches to value public goods. It is called the ‘Life Satisfaction Approach’ (LSA) (for a review, see Frey et al. 2010). As this review of the LSA explains, public goods can be directly evaluated in utility terms when reported subjective well-being is used as a proxy measure for individual welfare. The marginal utility of public goods or the disutility of public bads is estimated by correlating the amount of public goods or public bads with individuals’ reported subjective well-being. By measuring these marginal utilities as well as the marginal utility of income, the trade-off ratio between income and the public good can be calculated.

Van Praag and Baarsma (Chapter 13 in this volume) pioneered and successfully applied this approach. They use it to value airport nuisance in Amsterdam. The LSA has been further developed by Luechinger (Chapter 14 in this volume), who applies an advanced identification strategy in order to value the negative consequences of sulfur dioxide in Germany.

The LSA has also been used to value other forms of air pollution (Welsch 2006, MacKerron and Mourato 2009), terrorism (Frey et al. 2009), droughts (Carroll et al. 2009), flood hazards (Luechinger and Raschky 2009), and scenic amenities (Ambrey and Fleming 2011). Recent studies applying the LSA have already reached a high standard, and preconditions for its application are better understood and formulated. What so far was an academically driven development of a new method may soon become an empirical tool to be used in the political process.

Part V Utility Misprediction and Adaptation

a) Decision versus Experienced Utility and the Potential for Suboptimal Choices

In traditional economics, people are assumed to make choices in an optimal manner. An entirely different perspective prevails in popular discourse and most other disciplines. There, it is common to presume that people attempt to maximize their happiness but may not always be effective in doing so. The notion of (non random) mistaken choices, alien to standard economics, is part and parcel of both daily life and most social sciences.

The economics of happiness offers a new angle to explore (potentially) suboptimal choices. In addition to observed behavior reflecting decision utility, there is information about people’s experienced utility when they report emotions or some evaluative judgment. In cross-disciplinary research in economics and psychology, various aspects of discrepancies between these two utility and welfare concepts have been explored. Some key insights and conceptual considerations are nicely presented in Kahneman and Thaler (Chapter 15 in this volume).

Of particular interest is people’s misprediction of experienced utility expected in the future when they make decisions in the present (also called projection bias in the theoretical work of Loewenstein et al. 2003). People often hold incorrect intuitive theories about the determinants of happiness. For instance, they overestimate the impact of specific life events
on their experienced well-being with regard to intensity, as well as with regard to duration. In fact, people seem to systematically underestimate adaptation to changes in circumstances or repeated stimuli. Rayo and Becker (Chapter 17 in this volume) model this aspect of evaluating alternatives based on a happiness function that is evolutionary efficient. In their model, there is a time-varying reference point in the happiness function that provides optimal incentives for fitness. To what extent this tendency of human nature is still productive in the modern world, is a different question.

Adaptation is a fundamental process in the formation of happiness and thus inspires our understanding of utility in economics. Research on the economics of happiness has documented patterns of adaptation in many areas of life whereby the degree of adaptation seems to systematically differ across experiences (Clark et al., Chapter 16 in this volume, Frijters et al. 2011).

b) Economic Consequences of Mispredicting Utility

If the underestimation of adaptation is taken into account together with differences in adaptation across activities and domains, interesting implications emerge. First, many economic decisions are best understood as trade-offs that involve the allocation of money, effort and time. Then, for at least two alternatives, predictions about experienced utility are necessary. In this constellation, the predictions can systematically differ in their adequacy. If people choose options according to a biased evaluation, their experienced utility will be lower than what they could otherwise enjoy. Moreover, they consume different goods with different attributes and pursue different activities than in a situation where either no option in the choice set poses a prediction problem or the degree of prediction bias is similar across alternatives.

Asymmetric prediction biases are most likely if trade-offs across life domains are to be undertaken. People often overestimate experienced utility from material consumption, because they underestimate the power of hedonic adaptation to material living standards. In contrast, positive experiences from social, challenging and autonomous activities are less susceptible to hedonic adaptation as they are constantly renewed. Accordingly, in trade-offs, too much weight is given to material goods relative to goods and activities that involve social engagement, or provide for the experience of competence and autonomy (Frey and Stutzer 2012).

This result is consistent with the general claim that people overvalue income relative to leisure and that the ‘work-life balance’ of individuals today is distorted. People are induced to work too much and to disregard other aspects of life. This proposition is frequently put forward for career people, who are said to be ‘overworked’. A related issue is status from conspicuous consumption. Competing for status involves negative externalities and therefore too much effort (from an aggregate perspective) is invested in gaining status and acquiring ‘positional goods’ (Frank 2004). If there is a comparatively large prediction bias in experience from consumption, the distortions induced by competing for status in consumption are magnified.

Utility misprediction also helps to better understand individual choices involving a trade-off with commuting. Commuters compare the salary or the quality of housing on the one hand and commuting time on the other hand. Rational utility maximizers only commute when they are compensated for the cost of traveling. However, when people overestimate utility from goods, they are expected to opt for too much commuting and suffer lower experienced
utility. In an empirical test using data on reported subjective well-being, people's decision to commute for longer or shorter hours was analyzed (Stutzer and Frey 2008). It is found that commuting is far from being fully compensated. Moreover, people do not adapt to commuting while they get used to the higher labor income. If this asymmetry is neglected in trade-offs, suboptimal choices result.

Part VI  Public Policy

The study of individual happiness has enriched economics with many new and sometimes challenging (preliminary) insights. More and more often, it is asked about the policy consequences that are to be derived from these insights. This discourse was successfully stimulated by the Stiglitz-Sen-Fitoussi Commission on the 'Measurement of Economic Performance and Social Progress' (Stiglitz et al. 2009). Recently, a World Happiness Report (Helliwell et al. 2012) has been published developing the aspects on subjective well-being further. Alongside, many think tanks have taken up the issue of happiness and public policy (see, for example, Booth 2012).

At least two general perspectives prevail when it comes to happiness policy. Many understand happiness policy, as does Layard (Chapter 18 in this volume), who wants to incorporate the insights of the economics of happiness directly into public policy. The cost–benefit framework of traditional welfare economics is to be retained. This perspective has attractive features: First, it enables one to derive optimal policies in a numerical way. Second, in contrast to postulating a purely theoretical social welfare function at the aggregate level based on a wide range of different outcome variables, the well-being figures provided by happiness research offer an overall empirical evaluation based on individuals' judgments. Third, a measure of social welfare based on happiness data is democratic in the sense of attributing equal weight to every person.

In contrast, Frey and Stutzer (Chapter 19 in this volume) propose to use the insights of public choice theory to develop the foundations of happiness policy. They emphasize that for politico-economic reasons an optimal happiness policy maximizing some aggregate happiness indicator corresponds to a benevolent dictator approach. They propose instead a constitutional perspective focusing on a comparative institutional analysis of subjective well-being. Their vision rests on the fundamental presumption that the quality of the political process is key to people's happiness. The legitimacy of political action finally rests on the voluntary agreements of the citizens involved. The sovereignty of individuals should not be reduced to their self-reports of well-being. Accordingly, the results gained from happiness research should be taken as inputs into the democratic political process. These inputs still have to prove themselves in political competition and in the discourse among citizens, as well as between citizens and politicians.

With this perspective in mind, there are many open issues for positive analyses in the economic of happiness. We are convinced that soon further advances can be reviewed.
Notes

1. Probably most relevant is the new interest in fixed effect estimators for panel data with ordinal dependent variables (e.g. Baetschmann et al. 2011). For practical applications, comparisons of the OLS estimator – treating the ordinal survey indicators as cardinal measures – with traditional estimators for ordinal data were helpful in simplifying many analyses (Ferrer-i-Carbonell and Frijters 2004).

2. For an application in development economics, see Cattaneo et al. (2009).

3. In a controlled experiment, for example, the effect of positive affect on time preference is studied revealing a lower present orientation (Ijichi and Zarghamee 2011).

4. For different established stated preference and revealed preference methods for the valuation of public goods see, e.g. Freeman (2003).

5. The LSA is compared to the standard non-market valuation techniques in Kahneman and Sugden (2005) and Dolan and Metcalfe (2008).

6. In Hsee et al. (2012), evidence on suboptimal choices is reviewed that arise for two reasons. First, people mispredict the utility they may experience from the available choice options due to the evaluation mode. Second, people make choices based on salient rules that are unlikely to maximize happiness.

7. A related evolutionary model for processes of adaptation and resilience builds on the idea of a hedonic capital and differentiates between stocks and flows of psychological resources (Graham and Oswald 2010).

References


