van den Berg, Gerard J.; Weynandt, Michèle A.

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Explaining Differences Between the Expected and Actual Duration Until Return Migration: Economic Changes

Gerard J. van den Berg and Michèle A. Weynandt
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at DIW Berlin

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German Socio-Economic Panel Study (SOEP)
DIW Berlin
Mohrenstrasse 58
10117 Berlin, Germany

Contact: Uta Rahmann | soeppapers@diw.de
Explaining Differences Between the Expected and Actual Duration Until Return Migration: Economic Changes

Gerard J. van den Berg∗
Michèle A. Weynandt†

September 3, 2012

Abstract

This paper explores the difference between intentions and realizations in return migration with the help of a duration model. Using the GSOEP the results lend support to the fact that people use simplifying heuristics when trying to forecast the future; their return intentions indicate bunching in heaps of 5 years. Along these lines we find that migrated individuals systematically underestimate the length of their stay in the receiving country. We find that the difference decreases the older one gets, but is larger the more disadvantaged one feels due to one’s origin as an example. The robustness checks show that the results do not hinge on a single definition, or set of explaining variables. The consistency in the underestimation may have important policy and modeling implications.

JEL-Classification: C41, D84, F22

Keywords: Duration Analysis, International Migration, Hedonic Forecasting, Utility Misprediction

∗University of Mannheim, IFAU-Uppsala, VU University Amsterdam and IZA, Department of Economics; L 7, 3-5; 68131 Mannheim; Germany; gerard[@]uni-mannheim[.de]
†University of Mannheim, CDSE; L 7, 3-5; 68131 Mannheim; Germany; michele[@]weynandt[@]gess[.de]; tel. +49 621 181 3431. We greatly appreciate Annette Bergemann and David Card’s help to get access to the data. We are grateful to Matthew Rabin, Stefano DellaVigna, Andrea Weber, Lena Janys, Johannes Schoch, Vera Molltor and seminar participants in the junior research dialogue at the University of Mannheim, SMYE 2012 and SOEP 2012, for many helpful comments on an earlier version of this paper.
1 Introduction

This paper explores the fact that migrated individuals underestimate the length of their stay in the receiving country. "Hedonic forecasting" refers to the errors that individuals make in predicting changes in their tastes and feelings in the psychological literature (see e.g; Read and van Leeuwen (1998); Gilbert et al. (2002); Nisbett and Kanouse (1968)). The reader is presented with evidence of a forecasting error and convincing statistics proving that it is not just simple noise. Loewenstein et al. (2003) have defined the concept of projection bias as the suggestion that people understand the qualitative nature of changes in their tastes, but underestimate the magnitude of these changes\(^1\).

Looking at return migration and the expectation to return our prior is that people underestimate their attachment to the country of migration - when first moving away from home one compares everything to home. Most of the time the culture in the country of migration will be different, one will not know a lot of people and one may not even have family in the migrating country. All these things are examples of what one misses when first moving to a country. Furthermore as recently discussed in Card et al. (2012) prejudices from natives against migrants may hamper the adaptation and the process of feeling at home in Germany. Therefore when asked about whether or not one wants to return most people say yes because they miss the culture, the food and so on\(^2\).

Once one has fully arrived in the migrating country - Germany for the current analysis - one starts to meet new people, one gets to know people on the job - assuming that you have a job - and one starts to discover things about Germany that one may not have known in advance. This process of integrating and feeling at home in Germany is what is understood by net attachment in the following. When first coming to Germany the net attachment is very low, even though one decided to migrate\(^3\). The decision why people migrated in the first place underlies the current analysis and the focus lies on these migrants that are already in Germany.

The German Socio-Economic Panel (GSOEP)\(^4\) is used for the analysis as individuals provide information on their return intentions. Using a duration model an expression for the predicted return realization (expected duration of the stay in Germany for the current analysis) is inferred. This predicted return will be compared to the respondents intentions and will be regressed on different

\(^1\)Conlin et al. (2007); Levy (2009); Acland and Levy (2010) are papers that are able to pin down the exact value of the projection bias parameter.

\(^2\)Individuals who came to Germany due to a war or as refugees on the other hand may not want to return to their country ever. These individuals are of no worry for the current analysis, since they should predict that they want to stay in Germany forever.

\(^3\)See Sjaastad (1962) for a first formulation of the decision to move. For a more thorough review on the return migration decision, see Borjas and Bratsberg (1996) who generalize Borjas (1991). Other relevant studies are; Dustmann (2003b); Dustmann (2003a); Dustmann and Weiss (2007).

\(^4\)To get a thorough overview of the data, we refer you to Wagner et al. (2007).
sets of socio-economic variables. These regression results highlight the driving factors of the difference between return intentions and return realizations\(^5\).

A first important finding is that people’s intentions exert bunching which already points towards a simplifying heuristic. Taking a closer look at the difference between the intentions and the realizations we see that the intentions lie constantly below the realization. Individuals considerably underestimate the duration of their stay. The average forecast error\(^6\) is therefore mostly negative but decreases the longer one stayed in Germany and the older one gets. Using pooled OLS we are also able to highlight a few other factors that drive the difference between intentions and realizations. Being older than 60 years reduces the difference considerably, while if an individual feels disadvantaged due to her origin her forecast error increases.

The clear understanding of the difference between intentions and realizations in return migration is crucial for integration policies. If migrants consistently underestimate the duration of their stay, they may not put enough effort into their integration. Government intervention may help to improve the situation for migrants by emphasizing integration as early as possible. It is important to understand these differences to avoid conflicts of integration between current inhabitants and migrants.

The setup of the paper is as follows; section 2 presents the duration model. Section 3 presents the results, while section 4 concludes.

## 2 Model

Let \( T \) be the duration until the return and let \( \theta(t|x(t), x_0) \) be the hazard rate, which can be interpreted as the return rate at \( t \) or the return probability, where \( t \) presents time since entry, \( x(t) \) are time varying covariates, such as the current employment status, the current family income, and \( x_0 \) are time invariant covariates, such as the age at migration, gender, education, country of origin.

The amount of money that migrants would earn in their home country and how the purchasing powers differ between the migrants country of origin and Germany builds the framework for the analysis between expectations and realizations. Information about what migrants wages would be in their home country is not available and GDP is used to infer how big the differences are between Germany and the sending country. Since the focus of the paper is to explain differences between return intentions and return realizations we need an expression for the return realization which will be inferred through duration analysis.

\(^5\)Please be aware that we are not claiming a causality of the results. We are only interested in the driving factors of the forecast error.

\(^6\)The difference between the intentions and the predicted return and forecasting error will be used interchangeably in the following since they refer to the same measure.
GDP is a good indicator to compare countries and as mentioned in Borjas and Bratsberg (1996) or Dustmann and Weiss (2007) the decision to return may be a part of the life-cycle, or the sending country may have caught up to the receiving country in terms of GDP\(^7\).

As emphasized above, the decision to return relies on the economic model which builds the framework for the hazard rate. As an example, for an individual to take the decision to move in 2005 it is needed that the expected present value of earnings proxied by GDP in the home country minus the moving costs are larger than the expected present value of earnings proxied by GDP in Germany (Sjaastad, 1962). More formally, if one decides to move in 2005,

\[
\sum_{t=2005}^{d} \frac{1}{(1+r)^t} (E[U(X_T(t))] - E[U(X_G(t))]) > c + \epsilon
\]

needs to hold\(^8\). This can also be rewritten in terms of the hazard rate in 2005, such that:

\[
P \left( \epsilon < \sum_{t=2005}^{d} \frac{1}{(1+r)^t} (E[U(X_T(t))] - E[U(X_G(t))]) - c \right) = \Phi \left( \frac{\sum_{t=2005}^{d} \frac{1}{(1+r)^t} (E[U(X_T(t))] - E[U(X_G(t))]) - c}{\sigma_\epsilon} \right)
\]

This expression can also be rewritten to get an expression for the hazard rate each year.

In the empirical part, we are going to estimate a discrete time complementary log log model with a third order polynomial in time\(^9\), which allows to infer the predicted return\(^{10}\).

\section{Results}

The first impression of a bias becomes visible when we compare the actual and the intended return. Looking at Table 1 about 70 percent of those expressing the intention to return to their home country over the course of 25 years never do. When evaluating Table 1 keep in mind that some people may have been wrongly coded as non returners. They can still return but it cannot be observed due to right censoring. A further thing to note, is that it is impossible to capture short term migration lasting no longer than one year. The GSOEP surveys people annually thereby not

\(^7\)The GDP levels for the different countries are from Angus Maddison (http://www.ggdc.net/MADDISON/oriindex.htm) but are only available until 2008, which forces the drop of the year 2009 and leaves us with the period 1984-2008.

\(^8\)\(X(t)\), are covariates that we control for. \(c\) represents the cost of moving, \(d\) is the expected year of death, \(r\) is the interest rate and \(\epsilon\) is an error term. \(U()\) represents the utility function. The subscript \(G\) stands for Germany, and the subscript \(T\) stands for Turkey.

\(^9\)The results for this model are not reported here, but are available from the authors upon request.

\(^{10}\)For the estimation of the predicted return, we need to sum the individual survival functions over the maximum survival time approximated by 100 – current age.
allowing to account for people who migrate and return within a year\textsuperscript{11}. For the rest of the paper we consider only the migrants who are already in Germany and present in the GSOEP. Furthermore we only consider adults who are older than 18 years in order to only include those individuals who take the return decision themselves. As the use of the GDP Data forced the drop of the year 2009, we are left with 25 years for the analysis (1984-2008) and 3152 individuals where 574 durations until re-migration are not right censored.

Before analyzing the differences between the intentions and the predicted return, let us look at the individuals intentions and what may be driving factors of changes in these intentions. Figure 1 plots the Intended Duration of Stay, in panel a) we imputed the intended duration for those who wanted to stay forever as $100 – \text{their current age}$, while in panel b) we only take a look at those that actually tell us how long they plan on staying. In both panels we can see that the individuals show bunching behavior around 5, 10, 15, 20 years. This bunching may already point towards a simplifying heuristic at work when individuals form their intentions\textsuperscript{12}. Figure 2 plots the difference between the intentions and the predicted return. Again panel a) plots the difference for the whole sample where for those who intended to stay forever we imputed their maximal survival time as $100 – \text{their current age}$. Panel b) plots the difference for the reduced sample where we leave those out who intend to stay forever. Panel a) gives us hope that there seem to be many people predicting the duration of their stay correctly, but when we take those out who intend to stay

\begin{center}
\begin{table}
\centering
\begin{tabular}{|c|c|c|c|}
\hline
\textbf{Intended Return (84)} & \textbf{No} & \textbf{Yes} & \textbf{Total} \\
\hline
No & 682 & 82 & 764 \\
Percentage & 30.00 & 16.05 & 27.44 \\
Yes & 1591 & 429 & 2020 \\
Percentage & \textbf{70.00} & 83.95 & 72.56 \\
Total & 2273 & 511 & 2784 \\
\hline
\end{tabular}
\caption{Intentions and Realization 1984 - 2009}
\end{table}
\end{center}

This Table only presents statistics for people present in 1984.

Source: GSOEP, own calculations.

\textsuperscript{11}These individuals do not play an important role for the analysis of the underestimation of the trip duration.

\textsuperscript{12}We also ran regressions on what drives the changes in intentions, these results are available from the authors upon request.
Figure 1: **Intended Duration of Stay**

(a) Intended Duration of Stay for those who intend to stay forever $= 100 - \text{current age}$

(b) Intended Duration of Stay without those who intend to stay forever

Figure 2: **Difference Between Intentions and predicted Realizations**

(a) Those who intend to stay forever maximal survival time $= 100 - \text{current age}$

(b) Without those who intend to stay forever

Figure 3 and 4 then plot the average forecast error (equivalent to the average difference) over

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13 which are those that we imposed on how long they remain in Germany.
different time specifications. Panel a) of Figure 3 plots the average forecast error over time spent in Germany, and what was not obvious before now seems to become relevant. The longer people actually are in Germany, the more accurate they get on average. The largest error that they make is when they have spent 20 years in Germany while their error is practically zero once they have spent 60 years in Germany. This could go along with the fact that having spent 20 years in a country you may still believe that you eventually return, but the older you get, the better you are at estimating your actual chance of leaving and so you seem to be more accurate with your forecast.

Panel b) of Figure 3 helps us explain at what age you seem to get better at predicting your utility or your future choice variables. Toward this end there is a clear direction; the older you get the better you get at predicting your remaining duration. This finding is not surprising as the older one is the shorter the remaining horizon gets, and therefore one may also be better at predicting the duration of the stay. Figure 4 then plots the average forecast error over time. We included

![Figure 3: Average Forecast Error](image)

(a) Over time spent in Germany

(b) Over age at time of forecast

this result in order to show that there do not seem to be relevant macro shocks that may drive our results.

Table 2 then finally takes a closer look at the differences between the intentions and the predicted return. In table 2 columns (2), (4) and (5) include individual fixed effects where the standard errors are also clustered at the individual level. Nearly every coefficient is significant at the 1% level, and the more we control for some of these significance levels drop, but nevertheless stay significant at the 10% level. The OLS results are shown just for comparison. As an example, one can see the effect when taking a closer look at ‘attended school in Germany’. The coefficient

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14 The identification with the use of individual fixed effects is driven by variations across time by each individual. Since many of the variables included in the regression may be time invariant, yearly OLS results are available upon request from the authors
changes sign and magnitude as soon as we include individual fixed effects and clustering. A further thing to note is that the coefficient estimate on time spent in Germany are all significant and point into the right direction. The longer one has been in Germany the smaller the difference between the intentions and the predicted return. The coefficient on the above 60 dummy is also highly significant showing that it is very important to control for this hump at the retirement age. The coefficient on the above 60 dummy is positive, but since the difference is always negative this means that the difference actually decreases as one is above 60. The coefficient on the disadvantage due to origin variable is also significant at the 1% level, and is negative. This implies, again as the difference is on average negative, that those individuals who feel a disadvantage underestimate the duration of their stay by more than those who do not feel disadvantaged. Having attended school in Germany is one of the surprising coefficients since it increases the difference when we focus on the specifications which include individual fixed effects in table 2 columns (3), (5) and (6).

4 Conclusion

This article showed evidence of a difference between expectations and realizations of the duration of the stay in the host country. Unfortunately we were not able to show whether there is projection bias due to data restrictions, but we showed that predictions get better the longer one stayed in Germany. The main rationale behind this finding in our opinion is that the individuals time horizon that they have left to live, shortens every year. Therefore their prediction gets better and more accurate. This goes along with findings of Smith et al. (2001) who found that longevity expectations are consistently linked to subsequent observed mortality. Another interpretation of the results leads towards Kahneman (2011) description of ‘what you see is all there is’ (WYSIATI). As shortly mentioned, there seems to be bunching at 5, 10, 15 years, which points toward a simplifying heuristic at work. WYSIATI goes into the same direction. When you ask people about returning to their home country; things they like about their culture, home country become more salient. This in turn may also make their wish to return more salient and thereby bias the given answer.
Table 2: Difference between the Intentions and the predicted Return

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
<th>(6)</th>
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<tr>
<td>Male</td>
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<td>-0.14</td>
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<td>(0.32)</td>
<td>(0.32)</td>
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<tr>
<td>Age at Migration</td>
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<td>0.21***</td>
<td>0.17***</td>
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<td></td>
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<td>(0.02)</td>
<td>(0.02)</td>
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<tr>
<td>ln(GDP_G)-ln(GDP_H)</td>
<td>-1.31</td>
<td>-1.79***</td>
<td>-0.75</td>
<td>-0.18</td>
<td>-0.49</td>
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<td>(3.63)</td>
<td>(23.26)</td>
<td>(3.69)</td>
<td>(3.68)</td>
</tr>
<tr>
<td>ln(GDP(t-1)_G)-ln(GDP(t-1)_H)</td>
<td>19.30***</td>
<td>18.34***</td>
<td>13.23***</td>
<td>13.55</td>
<td>13.84***</td>
<td>13.94***</td>
</tr>
<tr>
<td></td>
<td>(4.25)</td>
<td>(5.65)</td>
<td>(4.30)</td>
<td>(23.68)</td>
<td>(4.54)</td>
<td>(4.54)</td>
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<tr>
<td>ln(GDP(t-2)_G)-ln(GDP(t-2)_H)</td>
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<td>1.28</td>
<td>-0.25*</td>
<td>-0.03</td>
<td>-0.37*</td>
<td>-0.51*</td>
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<td>(3.27)</td>
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<td>Married</td>
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<td>-4.34***</td>
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<tr>
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<td>Married living separated</td>
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<tr>
<td>Divorced</td>
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<td>-3.09*</td>
<td>-2.64***</td>
<td>-2.70</td>
<td>-2.57</td>
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<td>(2.44)</td>
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<td>Widowed</td>
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<td>-4.66***</td>
<td>-3.83*</td>
<td>-4.90***</td>
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<td>(1.13)</td>
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<tr>
<td>Employed</td>
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<td>-0.60*</td>
<td>-0.82*</td>
<td>-1.92***</td>
<td>-0.92*</td>
<td>-0.88*</td>
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<tr>
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<td>(0.34)</td>
<td>(0.49)</td>
<td>(0.51)</td>
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<tr>
<td>Family at Home</td>
<td>7.36***</td>
<td>3.46***</td>
<td>7.29</td>
<td>2.77***</td>
<td>5.97</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
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<td>(0.37)</td>
<td>(6.43)</td>
<td>(0.38)</td>
<td>(5.85)</td>
<td>(5.83)</td>
</tr>
<tr>
<td>Spouse at Home</td>
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<td>-3.65**</td>
<td>-1.24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.85)</td>
<td>(1.48)</td>
<td>(1.53)</td>
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<td>Attended School in Germany</td>
<td>3.03***</td>
<td>1.28</td>
<td>-25.28***</td>
<td>0.82</td>
<td>-25.17***</td>
<td>-25.35***</td>
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<tr>
<td></td>
<td>(0.66)</td>
<td>(0.83)</td>
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<td>Time in Germany</td>
<td>-0.08***</td>
<td>0.44***</td>
<td>-0.67*</td>
<td>-0.11</td>
<td>-0.61*</td>
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<tr>
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<td>(0.13)</td>
<td>(0.15)</td>
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<td>(0.17)</td>
<td>(0.36)</td>
<td>(0.36)</td>
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<tr>
<td>Time in Germany²</td>
<td>0.03***</td>
<td>-0.05***</td>
<td>0.03**</td>
<td>-0.01</td>
<td>0.03*</td>
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<td>Time in Germany³</td>
<td>-0.00***</td>
<td>0.00***</td>
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<td>(0.00)</td>
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</tr>
<tr>
<td>Children?</td>
<td>-0.98***</td>
<td>1.52***</td>
<td>-3.08</td>
<td>1.24***</td>
<td>-3.41</td>
<td>-3.54</td>
</tr>
<tr>
<td></td>
<td>(0.32)</td>
<td>(0.40)</td>
<td>(2.49)</td>
<td>(0.40)</td>
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</tr>
<tr>
<td>Aged 60 or older</td>
<td>4.07***</td>
<td>2.46***</td>
<td>3.76***</td>
<td>3.19***</td>
<td>3.55***</td>
<td>3.48***</td>
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<td>(0.47)</td>
<td>(0.54)</td>
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<tr>
<td>Writing German?</td>
<td>3.27***</td>
<td>0.45</td>
<td>-0.07</td>
<td>0.61</td>
<td>0.63</td>
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<tr>
<td></td>
<td>(0.45)</td>
<td>(0.78)</td>
<td>(0.51)</td>
<td>(0.86)</td>
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<td>1.30</td>
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<td></td>
<td>(1.06)</td>
<td>(1.88)</td>
<td>(1.32)</td>
<td>(2.50)</td>
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<td>Disadvantage due to origin?</td>
<td>-1.42***</td>
<td>-0.78**</td>
<td>-0.75**</td>
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<td>(0.30)</td>
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<td>Language Newspaper German?</td>
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<td>Bundesland FE</td>
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<td>No</td>
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<td>R²</td>
<td>0.20</td>
<td>0.11</td>
<td>0.68</td>
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Source: GSOEP, own calculations.
Note: ***,*** indicates significance at the 10%, 5%, and 1% level, respectively. Standard errors in parentheses. The dependent variable is the difference between the intended return and the predicted realization. The columns that include the number of clusters, include individual fixed effects and those standard errors are clustered.
In the introduction we mentioned that the findings would be relevant for government action. As it is not clear what really drives these differences, we need to be careful when giving policy advice. In future research we want to figure out where policy interventions would help, and whether the intentions that people provide really coincide with their future actions taken. As an example, if an individual thinks that she will return in less than five years she may not start to integrate properly. As it turns out this individual will stay longer than she at first thought. The time that the individual spent thinking that she may return quicker could have therefore been used more efficiently, as an example for Germany, the individual could have started to learn German.

Furthermore, we aim to explore whether differences between intentions and actual return migration are systematically related to behavioral traits of the respondents. This includes indicators of self-control and well-being. Obviously such investigations can only be carried out with rich longitudinal survey data such as the GSOEP.

To conclude, this article presents relevant information about the fact that migrants underestimate their stay in the country of origin, but there also seems to be a learning effect. The longer they are in the host country, the older they become and the better their forecasts become.
References


