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Occupational Careers
and their Impact on the Transition
to Fatherhood in Western Germany**

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Insecurities in Employment and Occupational Careers and their Impact on the Transition to Fatherhood in Western Germany

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Abstract

This paper examines the relationship between work and family among men in western Germany. We investigate the extent to which a difficult start in and insecurities during the working life affect men's transition to fatherhood, and the degree to which this effect is influenced by characteristics of the respondent's family of origin and his relationship history.

We use proportional hazards models to analyze data of the third "Familiensurvey" conducted by the German Youth Institute in 2000. In accordance with the spillover hypothesis, which assumes that labor market success (or failure) leads to success (or failure) in family behavior, we found that under difficult and/or insecure circumstances in career patterns, men delayed their transition to fatherhood. The delay was caused in particular by unemployment, self-employment or part-time work. A successful career development, however, increases the propensity to have a child soon after having taken a career step. Contrary to the hypothesis of individualization, the social status and the composition of the family of origin still have an impact on the fertility behavior of men in adulthood. In particular, the transition rate to fatherhood was higher if the man grew up with at least one sibling, while losing a parent through death decreased the rate. Both the employment career and the parental home influence the formation of steady relationships, and this explains in part their effect on the transition to fatherhood.

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1. Introduction

Contrary to many expectations, the decision to have a child is still governed to a great extent by the traditional norms of the "golden age of the family", i.e. having children is taken for granted (Burkart 1994, Burkart 2002, Schaeper and Kühn 2000). However, we start from the widely accepted assumption that for an increasing part of the population, having children is dependent on individual and household-based decisions (van de Kaa 1999). Success and failure in the labor market are crucial in these decisions (Huinink 1995, Brüderl and Klein 1993). In modern societies, gainful employment secures unequal access to goods and services. It is therefore not astonishing that a considerable body of empirical research confirms that employment opportunities and failure or success in the labor market affect the transition to parenthood. On the one hand, resources accumulated from the labor market help to deal with the considerable costs and restrictions – in time and money – that parenthood imposes on the opportunity to pursue alternative life goals. The extent to which parenthood may lower individual life goals if financial resources are low is exemplified by the fact that in Germany, raising children is one of the most important poverty risks (e.g., Strengmann-Kuhn 2000). On the other hand, pursuing success in the employment career requires time and energy and may conflict with the norm of "responsible parenthood" (Kaufmann 1988) and modern fatherhood. Thus, patterns and attributes of gainful employment play a key role in explaining the fertility behavior of women and men.

In our paper we examine in particular the impact of working life and different professional careers on the transition to fatherhood for West German men. The link between employment and fertility follows different rules for the two sexes. Especially in a conservative welfare regime like that of Germany, biographical options and constraints are still quite different for women and men, and this applies in particular to the question of how to combine family and work. Hypotheses thus have to be formulated in a different manner for the two sexes and cannot be tested and interpreted in the same way.

When studying the impact of employment on fertility, most empirical research refers merely to the level of education, training and occupational class position or prestige scores. However, in our paper we will show that these indicators are not sufficient in capturing the impact of employment on fertility in two respects. First, they rely too heavily on the assumption of stable careers and predictable career prospects. They neglect the fact that employment contracts and

career prospects differ not only according to material and immaterial gratifications but also according to the amount of predictability and security they provide for the workforce. Examples are fixed-term contracts as they introduce a degree of insecurity in the future career pattern, and the difference between relatively secure public service employment and unpredictable private business employment. The indicators do not take into account that work-life careers have become less stable and more heterogeneous as far as working conditions, income prospects, and job security are concerned. These factors define “new” lines of labor market inequalities that are not adequately represented by class typologies, status or prestige scores. To which degree insecurities and discontinuities in labor market participation and careers actually increased since the 1980s is still debated (Neumark 2000, Diewald 2003). But disregarding whether there was a considerable change of this kind or not, this important dimension of labor market inequalities has been neglected in previous research. Second, occupational class position or status, even if they are measured time-dependently, do not capture adequately the life course logic of rational behavior. The life course is a cumulative, endogenous process of causation, with former experiences affecting later decisions (Mayer 2003). Comparisons of one's own career experiences with normative expectations and aspirations play an important role. For these two reasons we aim to extend the traditional approach by including various indicators of the accumulation of former job and career stability and security experiences in our analyses of the transition to fatherhood.

2. Theory and Hypotheses

To investigate the impact of working life and employment careers on the transition to fatherhood, we refer to a general theory of goal-oriented and rational behavior (Lindenberg 1996, Ormel 2002) and some of its adaptations to demographic processes in the life course (c.f., Easterlin 1980, Leibenstein 1975, Birg et al. 1991). From this family of general theories, we borrow two assumptions. First, we assume that the male breadwinner model is still a prevailing normative task. In this case, securing economic resources as precondition for establishing a family is a rational behavior for men. Second, pursuing competing life goals (like economic or occupational success as sub-goals of social agency versus having a child as sub-goal of belonging and bonding) depends on the salience of these goals and the expected probability that the respective goal can be achieved successfully. The latter in turn is dependent on the availability of helpful resources and competences.

With Easterlin (1980) and Leibenstein (1975) in particular we share the assumption that individual behavior is heavily influenced by social comparisons with reference groups. Easterlin focused on the economic well-being of the family of origin, Leibenstein on the living conditions of reference groups within the same birth cohort. In this article, we focus on insecurities and instabilities in the occupational career where aspirations acquired by educational attainment and training and the expectation of “normal” (in the sense of institutionalized) career prospects play a major role.

In general, at the individual level, three different kinds of hypotheses about the possible interrelation between work life and family behavior can be distinguished (Zedeck 1992). The hypothesis of a “spillover” effect of work life on family behavior, as represented by the fact that men with low educational levels also have low fertility (Huinink 1995), stands out as the most prominent in the relevant literature. In the case of a “spillover”, labor market success (or failure) leads to success (or failure, respectively) in family behavior. For our question concerning the fertility of men, this means that full-time employment, good working conditions and career advancement as well as job and career security should facilitate the transition to fatherhood, since they are important resources for dealing with the long-term strains, liabilities, and commitments of raising children. Vice versa, part-time and/or temporary work, downward mobility, a low level of employment stability, and a mismatch between a relatively low occupational position and a relatively high level of education all should weaken the capability of men to take over such responsibilities. This expectation should be especially true for Germany. First, as potential breadwinners, men with unstable employment and career patterns are less attractive for women who plan to start a family, and in Germany the division of labor between women and men is still more traditional than in almost all other western societies. Second, there is normatively less job insecurity in Germany than in most other western societies. Industrial relations and career prospects are traditionally based on trust and reliability, and transmitted by a stable inclusion in firms and occupational milieus (Soskice 1993). More generally speaking: As in the spillover hypothesis, the loss of stability and predictability weakens the readiness for stable, long-term commitments in relationships (c.f., Sennett 1998). This is the prevailing and often confirmed sociological hypothesis of the importance of unequally distributed resources (material, status reputation) for nearly all other social participations in life.

However, with some plausibility one can also formulate the alternative hypothesis of a compensatory relationship between work and fertility (Zedeck 1992). This is because of a possible substitution at the level of life goals or at the level of available means to achieve the same life goal. Four arguments support the compensation hypothesis. First, the strains resulting from a long period of education and training and a challenging and laborious career may restrict the propensity and ability of men to play an active role as father above the mere breadwinner role. Unlike their attitudes toward housework, fathers are nowadays more often expected to commit themselves to spending time with their children than it was the case a few decades ago. Second, expected returns of investments in the occupational career rise like a spiral with early successes (Merton's "Matthew effect"). In this case, too, a substitution of life goals may occur, with occupational success replacing informal social belonging. And third, a discontenting job and career situation may intensify the desire to look for a steady and fulfilling personal relationship. In this case, people with high resources who usually aspire to achieve social recognition more than other people shift their priorities to life goals of striving for emotional warmth and belonging to close friends. In a fourth, similar argument, the compensation does not refer to the differential salience of general life goals, but to the availability and probability of different ways to achieve this goal, namely belonging, trust and reliability. The experience of insecurity in the labor market may actually strengthen the need for trust and reliability in personal relationships. This compensatory reaction is the direct counter-hypothesis to Sennett's (1998) assumption that experiences of instability in the labor market inhibit the readiness or ability to invest in stable personal relationships. The more the principle of stable social inclusion is weakened by changes in the labor market or at work, the more one has to rely for such experiences on informal social relationships. The parent-child relationship is the prototype of such a relationship, since it is the most indissoluble relationship of all.

Moreover, the compensatory and spill-over hypothesis may not be contradictory assumptions but may complement one another in explaining a non-linear relationship between gainful employment and the transition to fatherhood. It is especially for men who are at the bottom of the hierarchy in the labor market and who have very insecure working contracts that a compensatory relationship is most likely to be entered, because they have nothing to lose but something to win by investing in parenthood. Waiting for better economic conditions by accumulating resources and getting a secure workplace during their career to cope later on with the liabilities of parenthood may not be a realistic option for them. For all other men in the workforce, however, the spill-over hypothesis may prevail, since establishing a stable, secure,

and more or less successful career is a normative expectation and at the same time a precondition for a family life with an adequate standard of living. For these people, the compensatory route should become more relevant only if occupational success has to be paid by extraordinary efforts conflicting with the everyday joys and duties of fatherhood.

Despite these arguments in favor of a spillover or compensation effect, we can formulate the expectation of work-life and family development segmentation. Neither life domains influence each other nor are the developments in the life domains caused by another joint factor. We admit, however, that this is quite unlikely for western market societies, where different domains of life mutually influence one another as a rule (Mayer 1997), and where labor market integration plays a key role for all other social participations. If we had included the former GDR, with its extended system of social security and very low labor market risks (Mayer and Diewald 1996) in our analyses, this third hypothesis would have more weight.

Finally, statistical correlations between work and family events may not indicate a causal relationship but only a spurious, or indirect, correlation caused by other factors like personality characteristics or earlier life experiences of insecurity and instability. Thus, low fertility and low performance in the labor market could both be caused by low abilities and lacking personal efforts or by the experience of a fragmented family of origin. A more specific problem of analyses of the transition to parenthood is that correlations of this life event with men's employment characteristics may interfere with assortative mating and marriage, in particular the female partner's education and labor force participation. In Germany, marriage is still an important normative precondition of parenthood. We will discuss this problem when presenting our empirical results.

In addition to the impact of the employment and career development on men's fertility behavior, one has to take into consideration that experiences in other life domains might also be of importance for the transition to fatherhood. The family of origin, the cultural context, and the kind of intimate relationship in particular are of interest here. The individualization-hypothesis pretends – among other things – that the family background and the cultural context loose power in structuring people's life courses (e.g. Beck 1986, in a critical perspective Friedrichs 1998). Security and stability in life, which were once achieved by traditions and norms, are losing their meaning as aid of orientation. The individual is confronted with a variety of options in life and has the chance to choose between different life tracks. People are becoming the architects of

their own lives. According to this hypotheses, one can assume that the social status of the family of origin as well as early experiences in the family or in the cultural context have lost their importance for structuring the transition to fatherhood. In this paper, we do not discuss this theoretical approach in detail as we mainly focus on the impact of working life on having a first child. The characteristics of the parental family and of the cultural context have a controlling function in our study. In particular, adverse conditions in the early life course may have an impact on difficulties in reaching a stable and successful labor force career (Jones and Wallace 1992, Kiernan 1995).

3. Methods of Analyses

- Sample Selection

Our empirical analyses use data from the third German “Family-Survey” conducted by the German Youth Institute (Munich, Germany) in the year 2000 in eastern and western Germany. About 10,000 men and women were interviewed. The sample is representative for Germany and contains detailed retrospective information on the employment and professional career of the respondents, on their intimate relationships and family development. Unfortunately, not all events have exactly corresponding dates. With some professional career changes, we know the year but not the month the change occurred. This necessitated a more crude construction of time varying covariates employed in the statistical model that is on a yearly base.

We use a subsample of this survey, namely men from western Germany born in 1946-50, 1951-55, 1956-60, 1961-65 and 1966-70. We confine ourselves to western Germany as the labor market crisis in eastern Germany caused by unification hit the life course of the selected birth cohorts at different life stages and therefore affected their lives in different ways. It would be necessary to run separate analyses for the youngest birth cohort in eastern Germany but our sample number is too small to do this. In addition, it would shift the emphasis of our analyses to the effects of unification.

Our observation starts with the entry of western German men into the labor market and continues up to the event of interest, that is, the transition to fatherhood, or up to the time of the interview. As we are primarily interested in the impact of employment careers on the transition to fatherhood, we further restrict our sample to men who had at least one job. Men who had a

child before starting their working lives (6 %) are excluded from the analyses, as the event of interest occurred before the working life could exert an influence on it. The remaining sample size for our analyses includes 1,707 men in western Germany.

The transition to fatherhood is defined as "becoming the father of one's own first child". Children from other relationships of the partner were not taken into account because the respondent neither participated in the decision to have these children nor in the timing of his partner's children. We are aware, though, that the existence or non-existence of a partner's child from a previous relationship does make a difference in one's own fertility decision (Thomson 1997). Nevertheless, the number of men without an own child who start a relationship with a mother is very small in our sample. Beyond this, including information on the stepchild into the model would only differentiate and specify the effect of the relationship, which is not the main emphasis of our paper. The relationship history serves only as a controlling variable to investigate whether or not the economic variables are still of importance.

- *Data and Method*

The dependent variable is the transition to first fatherhood. We do not consider the year of the actual birth as the point of transition to fatherhood, but rather the calendar year before the birth so that we arrive at the approximate time the actual decision to have a child was made. We also constructed the employment history based on years rather than months owing to limitations of the data: Some job changes were not collected on a monthly base. A year-based construction ensures the proper sequencing of the events.

The probability for the transition to fatherhood changes over time during the working life. At the start of the working life (e.g. a new job), the hazard rate for establishing a family is probably lower than some time into a job. However, as the time-dependency of that development is not clearly defined, we use the proportional-hazards-model for the analyses on the transition to fatherhood (Cox 1972). We further assume changing probabilities on the transition to fatherhood when there is a change in the employment status (unemployment; employment interruption due to further educational training) or in the professional career (upward or downward movement). A crucial impact on the transition to fatherhood needs to be postulated when a change occurs in the kind of relationship and/or in the marital status (no relationship, living apart together, cohabitation, and marriage). We construct time-varying covariates to ensure that changes in these two life domains are included into our model specification. By computing two or more

parallel processes in the life course, we are able to draw a more realistic picture of the impact of these covariates on the transition to fatherhood than using only time-constant variables. We express the results as relative risks, which are the antilogarithms of regression coefficients.

4. Definition of Explanatory Variables

- *Men's career development*

We study several aspects of the effect of employment career on the transition to fatherhood. First, at the level of labor force participation, we use a time-varying covariate distinguishing between periods of employment and periods of not being employed, and for the latter we make a distinction between unemployment and education. Periods of unemployment are usually accompanied by current economic difficulties and by insecurities concerning future career and professional development. We assume that difficulties and insecurities are more pronounced during periods of unemployment than during employment breaks resulting from educational training. As far as employment periods are concerned, we make a distinction between full-time and part-time work indicating the degree of integration into the labor market. At least for men, part-time employment is synonymous with not being fully integrated into the labor market and is therefore not desired. Part-time work could have been included as a time-varying covariate, and we have done this previously. However, as the number of men who worked part-time is very small, this characteristic is now included as a time-constant variable in order to simplify the model.

Second, at the level of occupational status, self-employed people have no contractual employment guarantee *per se*. Especially when they are starting a business of their own, they are fully exposed to the harsh reality of changing market forces. Setting up and running a business requires a great deal of investment in terms of time, energy, and money. We therefore assume that there are lower transition rates to fatherhood for self-employed men. The variable 'self-employment' indicates as a time-constant covariate whether someone has been self-employed or not during one of his first five jobs before first fatherhood. From previous analyses we learnt that self-employment seems to require certain personality traits, which not only show up in periods of self-employment but are also virulent in employment spells prior to and following self-employment (provided that the respondent does not stay self-employed all his working life).

Third, the categories of the rank order variable “professional career” are based on a transformation of the widely used German “Occupational Status Classification”¹ (see Table A1). The “Occupational Status Classification” includes both employment status and occupational function and takes into account such factors as source and level of income, job security, and the degree of autonomy at work. The 19 categories of this partially ordered list are transformed into eight ordinal career ranks (for similar approaches, see Hoffmeyer-Zlotnik 1993). The main determinants for this transformation are the educational requirements for entry-level access to a position and the extent of supervisory and/or managerial authority. For the purpose of the following analysis, career mobility is defined as “moving to a higher (or lower) career rank for the first time compared to the career rank of the job held before”.² As long as someone occupies that higher career rank (or even moves up again), the corresponding time-varying career-variable continues to stay the same, which means the variable has the value “1”. If a job change implying a downward movement has occurred after a previous upward movement, the covariate “upward mobile” turns into “0” and the covariate “upward - downward” turns from “0” to “1”. The downward mobility and a mixed pattern of down- and upward movements are constructed in the same way. Downward mobility means that there is some sort of life course discontinuity, since it indicates difficulties in accumulating labor market resources consistently or gathering the fruits of former investments. For a further specification of the immediate, medium- and long-term effects of these events on the transition to parenthood, one would need to have more theoretical and empirical evidence for classifying periods affecting the start of a family. Periods might be different for various occupations and might interact with age. With the current state of knowledge, the construction would be arbitrary

Life course discontinuities can also be defined by the level of the first job in relation to former investments in education and training. A time-constant variable evaluates the translation of educational attainment into the first occupational position (see Table A2). A negative start into working life means that the position of the first job is lower than one would expect from

¹ This classification was first used by the German Census Bureau in 1971 (MZU71) and has become a standard component in social science surveys in Germany. Pappi 1979 provides a detailed discussion of the underlying concepts and related operationalizations. The general practice in career mobility research is to use an occupational prestige ranking (e.g. Treiman-Scale, Wegener-Scale). In these rankings, the occupational activities are scored, but the status or the position in the hierarchical dimension are not. As our focus is the hierarchical dimension, we did not use a prestige ranking scale.

² Of course, this simple typology of just eight career levels does not capture all career advancements, but neither does the original classification.

knowing the educational level. We expect that this should force men to improve their occupational status. A positive start into the working life places great demands on the respondent to justify his occupational placing. The variable “permanent contract” distinguishes between three periods of employment until the first fixed-term contract is entered, namely the beginning/the first year, the second/third year and the third/fourth year or following. The variable “fixed-termed contracts” is also seen as indicator for a difficult career entry pattern, causing insecurities about the future career development. Both variables might also be indicators for women to assess a man’s “career maturity” and his readiness to start a family (Oppenheimer and Lewin 1997). However, without additional information, the contract characteristic may not be a satisfactory indicator of job insecurity, since a fixed-term contract can often be an entry-point to long-term jobs and to a promising career ladder within firms.

Downward mobility, fixed-term contracts, part-time work and employment below the level of training acquired are often said to be “new”, destandardized forms of employment which have been growing rapidly in the past years in modern societies (Kalleberg et al. 2000, Diewald and Konietzka 1998). However, there is still no agreement about the range, causes, and consequences of such a trend (Neumark 2000). In the light of our theoretical framework, we would have liked to have time-varying indicators of work strains in our database. Yet we were not able to do so owing to data limitations.

The educational attainment covers the qualification upon leaving school, combined with the kind of professional training gained before entry into the labor market.

- *Family background, socio-demographic characteristics, and relationship history*

Characteristics of the family of origin include the educational attainment of the father at age 15 of the respondent, the family structure, and whether the respondent had at least one sibling. The structure of the family of origin indicates whether the respondent grew up with both parents, experienced parental loss by death or whether the parents got divorced (this includes single parenthood). It provides us with details concerning experiences of (in)stability in intimate relationships. Siblings may indicate that the respondent's parents have or had a stronger family orientation, and it provides the respondent - as a child as well as an adult - with additional social experiences in close relationships. Having siblings can decrease economic resources for each child, which may result in early marriage (Michael/Tuma 1985), and it may raise the probability of parenthood by producing some kind of competition among siblings to produce grandchildren

for one's parents. The educational attainment of the father can be distinguished by three categories, the lower secondary school (with or without training) is the most common one and we used it as the reference category. The father's educational characteristic points to resources available to the respondent, as well as to normative demands at least to maintain the social status of the family of origin.

Religious denomination and the possession or non-possession of the German nationality are indicators for the cultural context. The selected birth cohorts included in our study experienced a period of change in fertility behavior, which we control for in the cohort-variable. Knowing the age of the respondent, we investigate whether the transition to first fatherhood is a lifelong opportunity, which men make use of or whether it is a socially limited period in men's life – the equivalent of a biologically limited period for women.

The relationship is operationalized by a time varying variable. It distinguishes between periods of singlehood, living apart together, cohabitation, and marriage. In the retrospective questions of the survey, only relationships lasting at least one year were taken into account. Having a relationship is essential for men who want to have a family, which translates into living together with a child. But becoming a father is a different matter. In other words, also single men - which includes in our data periods when men have no relationship or one less than one year, - are also at risk of becoming a father. We chose "being single" as reference category for our time varying variable, since we want to follow the most common tracks of the life course, starting with singlehood. Increasing degrees of relationship institutionalization produce positive effects for the transition to fatherhood compared to being single. If we had chosen marriage as the reference category, it would have meant going back in the life course from being married to an unmarried life pattern, which is not plausible when analyzing the transition to fatherhood. Characteristics of the relationship history are not of interest in itself for our research question, but they are needed to examine the robustness of the impact of career development on the transition to first fatherhood.

5. Results

63 % of all West-German men of our selected birth-cohorts had at least one child at the time of the interview. From the descriptive results of Table 1, we learn that insecurities in employment result in a lower percentage of fathers whereas being continuously employed improves the

starting-position for having a child. A steady career development also results in a higher percentage of fathers, compared to those who experienced up- and/or downward movements before their first child was born (respectively before the time of the interview). The variables indicating a difficult start in the working life do not generate much difference in the distribution of being a father or not. Differences in the family of origin and the cultural context seem to produce variations in different fertility patterns.

We now turn to the empirical results from our Cox regression analysis of the transition to first fatherhood, based on three model specifications (see Table 2). In the first step, we included only characteristics of the educational attainment, the employment development as well as the professional career in order to see their specific impact on the transition to fatherhood. In Model 2 (Table 2), we then added information on the parental home, cultural aspects such as religion and (non)German nationality. Finally, we included the relationship-history in Model 3 (Table 2). We assume that the life-pattern covariates will have the strongest impact and that they will possibly superimpose some of the effects of the previously included variables. Specifically, significant effects in Model 1 and Model 2 may prove to be effects linked with union formation. In western Germany, with its relatively small percentage of cohabiting couples with children, marriage is in many instances a consequence of anticipated parenthood. In all three model specifications, we control for working life characteristics as well as for birth cohorts and the age of the respondent.

Insecurities during the working life and a difficult start in the working life do have an impact on the transition to fatherhood, though this does not hold true for all our indicators of discontinuities and insecurities (Table 2; Model 1). Under difficult or insecure circumstances, men delay the start of a family³. Self-employment, part-time work, and periods of unemployment are particularly crucial. In some ways, unemployment is an inherent phenomenon of the labor markets of free market economies but there are some aspects that recently have changed or at least become more pronounced in Germany. Structural unemployment has emerged periodically since the 1970s, and it has increased and become more widespread since the 1990s. More people with all kinds of jobs are potentially at risk of becoming unemployed. Even the well-trained are affected, though to a much lesser degree than those with low education. Our results show that periods of unemployment reduce the transition

³ We use this phrase as well as family formation as a synonym to transition to first fatherhood.

to fatherhood significantly. Insecurities resulting from not being employed and uncertain prospects for the (near) future reduce the likelihood for parenthood. This is in accordance with the spillover-hypothesis, which postulates that insecurities in the working life carry over into the private life, postponing or preventing long-lasting commitments. As men in western Germany still see themselves and are regarded as being the breadwinner of the family, they shy away from family responsibilities when their economic situation is insecure. Being in education - after having started a professional career already - reduces the transition rate to parenthood for men to a significant amount as well. Further education is an investment in one's future professional career but that investment has yet to turn into money or some other reward. Beyond this, it is usually not the norm to start a family while in education.

Another factor indicating insecurity is being self-employed. From previous analyses we learnt that the impact of self-employment does not have a pronounced immediate impact, but rather an enduring one (Tölke and Diewald 2003). It proved to be a characteristic of the personality that already shows up before becoming self-employed and is still effective after ending a self-employment period. For this reason, we included information about setting up a business, using it as a time constant instead of constructing a time-varying variable. Having been self-employed in one of the first jobs causes significantly lower transition rates to fatherhood than having had no experiences in self-employment. Self-employment usually requires money and preparation in advance, and plenty of time and energy is needed to run a business. This may lead to the postponement of family formation.

The following dimensions of the professional career characterize a difficult, challenging or precarious start to the working life - in a strict sense, they are "new insecurities". One of our indicators covering "new insecurities" is part-time employment early on in the working life. Confirming our hypothesis, part-time work significantly reduces the propensity and certainly the chances of starting a family in the first two models (c.f., Table 2). In the third model, however, the coefficient is no more significant. Apparently, this indicator interferes not only with childbirth but also with building up a relationship. Obtaining a permanent contract only later in one's employment career and experiencing a negative or positive start in the working life, however, do not affect the transition to fatherhood to a significant degree. Only a small number of men in our sample mentioned one or more of these experiences in their former working lives. This might contribute to the fact that the statistical significance level is not reached.

Focussing on career development as a process, we learn that only one career track has an impact on the transition to first fatherhood, and that is upward movement. We find a clear difference between men who have experienced an upward movement and those who remained on the same career rank. In Models 1 and 2, the probability of becoming a father is significantly higher for those men who climb up the career ladder than for those on a steady track. This feature may be attributed to a timing effect. Upwardly mobile men (have to) postpone the founding of a family because long educational periods and investment in the career take time. But if they succeed, the probability of establishing a family is no longer low, and they catch up with high speed. In the third model, this spillover effect disappears and this again indicates that the employment history of men works already at the stage of relationship formation. Men who are downwardly mobile and those with mixed career patterns do not have significantly different probabilities.

A medium and high educational attainment reaches significance only if the characteristics of the family of origin are included, and the effects are even more pronounced if the kind of relationship is known (Table 2; Model 2 and 3). A medium or high school-leaving qualification followed by vocational training – but not a university degree – then results into a high probability for transition to fatherhood compared to those who have a basic education only (reference group: lower secondary school with or without vocational training). This means that the higher probability for well-educated men to become a father is underestimated when not controlling for their background. A step-by-step inclusion of the parental home variables and variables indicating the cultural context has revealed that a father's educational attainment and German nationality interact with the respondents' educational level and increase the propensity to have a child (not shown in the Table). Contrary to the assumption of a compensatory effect between work and family for lowly educated men, men with the three lowest levels of education are less likely to start a family than those who have higher levels, except a university degree.

Although it is often assumed that modernization and individualization diminish the impact of the family of origin on one's own future life, our results still show its persistent importance (Table 2; Model 2 and 3). This includes, in particular, the experience of having had siblings. This effect holds true even if one's own relationship history is controlled for (Table 2; Model 3). It is already known that siblings have a positive effect on the propensity to establish one's own family (Michael and Tuma 1985; Huinink and Wagner 1989). This might be a manifestation of adopting the family orientation of one's own parents as well as an expression of important social experiences within the family. Growing up as a single child lowers the rate of transition to parenthood significantly. Non-stability in the family of origin is reducing men's transition to

fatherhood. Losing a parent by death reduces the likelihood of having a first child. Since we control for the father's education, it does not seem to be the economic situation but rather some kind of emotional or psychological vulnerability earlier in life which results in a lower probability to have one's own family. When we control for the respondent's relationship status, the impact of a parental loss weakens and is no longer significant (Table 2; Model 3). Steady relationships respectively the partner seem to be able to reduce or even neutralize the effect of previous socio-psychological experiences of unstable relations. In this case, the loss of a parent has probably a strong decreasing effect on the transition to marriage or another kind of steady relationship. After having mastered the step to a steady relationship, a new basis for the decision to start a family is given, which is no longer or at least less affected by men's previous and early life experiences.

The father's level of educational attainment continues to have an impact on men's lives when they are grown up. If the level of attainment is above the most common educational level, it reduces the son's transition rate to fatherhood. Especially medium educational level of the father has a significantly decreasing effect (Table 2; Model 3). High expectations of the family of origin to maintain or to improve the social status of the family of origin and to give one's own family a safe financial foundation may result in a postponement of fatherhood at least. A father's university degree points in the same direction, but falls just short of the significance level.

Both factors, whether one has a relationship or not and the kind of relationship, are crucial to the transition to fatherhood (Table 2; Model 3). In western Germany, the transition rate increases with the degree to which the relationship is institutionalized, with the lowest rate for periods of singleness (including relationships lasting less than one year) and clearly the highest rate when married, whereas periods of living apart together and cohabitation are in-between these rates. This is not surprising, though. Living in a relationship is the only way for men to have a family (not just becoming a father) and beyond this, marriage is still important for establishing a family in western Germany. It is therefore of particular interest to look at what happens to the effects of the other variables after including the relationship-history. We see that variables covering the "new insecurities" at the beginning of the working life are losing their significance level, though the strength of the effects is hardly changing. The same is true for the impact of the variables covering insecurities in the further employment and career development. Self-employment is the only variable, which maintains its crucial status. Present or past self-employment still reduces

the transition rate to fatherhood significantly, even when controlling for different life patterns. These results indicate that marriage is the event when “bread-winner” qualities are already effective. Norms and the necessity to be able to keep - at least in principle - a family affect the decision to marry. Chronologically, marriage usually still precedes the transition to parenthood, but the decision to marry is often made with the desire to start a family.

Non-possession of German citizenship results in higher transition rates to fatherhood. This suggests that foreigners continue to embrace at least part of their origin culture. Our sample includes foreigners mainly from Poland, Russia and Turkey and we know that in these countries people start their family at an earlier age than in Germany. Religious denomination, another indicator for the cultural context, points to the postulated direction, too. Being an atheist lowers the probability of starting a family, but the coefficient just fails to reach significance.

There is a general trend to postpone the start of a family. Looking at Models 1 and 2 (Table 2), we see that the two youngest cohorts born in the 1960s postpone the transition to fatherhood. This effect diminishes when including information about the life pattern. Here again, the delay in starting a family is evoked by the timing of a steady relationship (most probably a marriage). Now and then, men past their middle age make headlines in the media when they become fathers. To become a father at such late an age is the exception to the rule, however, at least as far as the first child is concerned. Men who are older than 35 have a significantly lower probability for a transition to fatherhood than young men between the ages of 25 and 30, which is the reference age in our model. This effect holds true in all our model specifications. A postponement of the decision to have a child seems to be limited - even for men.

6. Discussion

A difficult start in and insecurities during the working life delay the transition to fatherhood, though this does not hold true for all our indicators of discontinuities and insecurities. Self-employment, part-time work and periods of unemployment are particularly crucial. This is in accordance with the spillover hypotheses, which postulates that success and failure in the working life affect the private life in the same way. The other characteristics indicating insecure or difficult career development do not reach statistical significance. This includes a negative or positive start in the working life (compared to the educational attainment), getting a permanent

contract only later into one's employment history, a low educational attainment and an unsuccessful career track. Small numbers might cause the fact that these variables do not reach statistical significance, but it partly results also from the transition to marriage being an important predecessor of parenthood. When we control for the kind of relationship, most of the characteristics of the working life lose their statistical significance. Marriage is still an important event in Germany when a family with children is desired and therefore "breadwinner-qualities" may play a decisive role in the decision to marry. When including marriage into our model specification, our results point clearly to marriage as the decisive and persistent turning-point to family formation. Being on the career track supports the spillover effect between work and fertility again. Having an upward movement increases the propensity to start one's own family. We found, however, no results supporting a compensatory relationship between work and family formation.

In contrast to some individualization assumptions the social status as well as the composition of and experiences in the family of origin still affect the course of one's adult life. The loss of a parent makes a man's transition to fatherhood more difficult. As we controlled for the social status of the family of origin by including the educational attainment of the father it does not seem to be caused by an economically deprived position. We interpret this effect instead as an expression of a psychological and emotional vulnerability and a loss of trust in enduring intimate relationships. The companion part is growing up with both parents and having at least one sibling. This prototype of a complete and enduring family supports the start of one's own family. Difficult experiences in childhood can be revised or even eliminated by a steady relationship respectively by a partner. If someone has mastered the step to a steady relationship, a new basis for the decision to start a family is given, which is no longer or at least less affected by previous and early life experiences. Having had siblings indicates a family orientation of one's parents and encourages men to have their own children.

Furthermore steady relationships seem to decrease or even neutralize the effect of difficult labor market experiences as well. We recommend that characteristics of the partner be included in further research to find out what characteristics of the partner in particular can cancel out economic insecurities and can increase men's transition to fatherhood on this new intimate basis. Furthermore, the process of union formation should be analyzed. Comparing results of the transition to marriage and to fatherhood can elucidate what factors are effective and when. This might be done by running separate models or preferably by using multi-process-modeling

techniques (Lillard 1993). Self-employment is the only characteristic of the working-life, which keeps up its crucial status even when the kind of relationship is included in the model specification. Being or having been self-employed still reduces the transition rate to fatherhood significantly.

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A1: Transformation of the „Occupational Status Classification into Career Ranks

Occupational status classification	Career Rank							
	1	2	3	4	5	6	7	8
Worker (skill level)								
10 unskilled	X							
11 semiskilled		X						
12 skilled			X					
13 foremen				X				
14 master craftsman						X		
Employee (duties)								
20 industry foreman						X		
21 simple		X						
22 qualified					X			
23 highly professional, independent						X		
24 highly professional, limited managerial							X	
25 extensive managerial								X
Civil Servant								
30 low level		X						
31 middle level					X			
32 high level						X		
33 executive level							1 st job	2 nd or further job
Self-employed (no. of employees)								
41 free-lance, academic								X
50 at most 1 <i>case-related solution/ exclusion</i>								
51 9 or less							X	
52 10 or more								X

A2: First job in relation to the educational level

- Position in the first job is below the educational level: - negative start
- Position in the first job is above the educational level: + positive start

Education	Career Rank							
	1	2	3	4	5	6	7	8
1 Lower sec. school, no occupational training			+	+	+	+	+	+
2 Intermediate school, no occupational training	-		+	+	+	+	+	+
3 Upper sec. school, no occupational training	-	-			+	+	+	+
4 Apprenticeship, lower sec./ intermediate school plus business training	-	-				+	+	+
5 Business training (3 years), Upper sec. school and business (2 years)	-	-	-	-		+	+	+
6 Technical college	-	-	-	-		+	+	+
7 University degree	-	-	-	-	-			+

Table 1: Distribution of respondents in the sample and of fathers by selected variables (in percent)

Covariates	Characteristics	All Respondents	Fathers
Birth-cohorts (age in 2000)	1946-1950 (50-54)	18	73
	1951-1955 (45-49)	17	68
	1956-1960 (40-44)	21	70
	1961-1965 (35-39)	25	58
	1966-1970 (30-34)	19	46
German	Yes	95	61
	No	5	82
Denomination	Protestant	41	62
	Catholic/other Christian denomination	38	65
	Islam /non-Christian denomination	4	81
	Atheist/ no answer	17	55
Grown up with parents up to age 16	With parents	92	63
	Divorced parents/unmarried	6	55
	Death of a parent	2	49
Siblings	Yes	81	66
	No	19	49
Father's educational qualification	Rest	78	65
	Intermediate/ upper sec. school + educational training	15	52
	University degree	7	52
Own educational qualification	Lower sec. school, no training	11	69
	Lower sec. school, training	37	64
	Intermediate school, no training	6	56
	Intermediate school, training	23	65
	Upper sec. school, no training	6	56
	Upper sec. school, training	5	63
	Upper sec. school, university	13	55
Start positive	Yes	85	62
	No	15	63
Start negative	Yes	89	63
	No	11	60
Permanent contract	Since the beginning/in 1 st year	91	63
	In 2 nd or 3 rd year	2	59
	in 4 th year or later	7	58
Full-/part-time in 1st job	Fulltime	96	63
	Part-time	4	48
Self-employed in one of the first five jobs	Not self-employed	94	64
	Self-employed	7	42
Interruption of employment because of education until 1st child/interview	Yes	6	52
	No	94	63
Interruption of employment for reasons other than education until 1st child/interview	Yes	12	35
	No	88	66
Professional career until 1st child/ interview	Upward mobile	22	50
	Downward mobile	5	48
	Up-and downward mobile	2	42
	No change	75	67
Experienced marital status until 1st child/interview	Marriage	68	80
	Cohabitation	72	71
	Living apart together	97	61
	Divorce	4	24
N of cases		1707	1707

Table 2: Relative risks of transition to first fatherhood.
Cox-Regression (Time measured in years since first entry into the labor market)

	Model 1	Model 2	Model 3
Birth cohorts <i>Ref.: 1946-50</i>			
1951-55	.82	.77*	.83
1956-60	.91	.84	1.04
1961-65	.75**	.69**	.93
1966-70	.66**	.63**	.87
Age (time-varying) <i>Ref.: Age 25 to 29</i>			
Younger than 20	.40**	.37**	.72
Age 20 to 24	1.02	.99	1.23*
Age 30 to 34	1.03	1.05	1.00
Age 35 +-	.49**	.51**	.55**
Educational qualification <i>Ref.: Lower sec. school, training</i>			
Lower sec. school, no training	1.06	1.03	1.12
Intermediate school, no training	.85	.88	1.05
Intermediate school, training	1.10	1.21*	1.34**
Upper sec. school, no training	1.09	1.21	1.78**
Upper sec. school, training	1.38	1.50*	1.40*
Upper sec. school, university	1.23	1.34	1.08
Start positive <i>Ref.: No</i>			
Yes	1.02	1.06	1.02
Start negative <i>Ref.: No</i>			
Yes	1.01	1.00	1.07
Permanent contract <i>Ref.: Since the beginning/in 1st year</i>			
In 2nd or 3rd year	.88	.89	.65
In 4th year or later	1.01	1.06	1.06
Interruption of employment because of education (time-varying) <i>Ref.: No</i>			
Yes	.39**	.40**	.56
Interruption of employment not for education (time-varying) <i>Ref.: No</i>			
Yes	.53**	.51**	.54
Full-/part-time (in one of the 3 first jobs) <i>Ref.: Full time</i>			
Part time	.65*	.62*	.77
Professional career (time-varying) <i>Ref.: No change</i>			
Upward mobile	1.30**	1.26**	1.14
Downward mobile	1.22	1.17	1.06
Down-upward mobile	1.01	1.26	1.30
Up-downward mobile	.58	.60	.84
Self-employed in (in one of the 5 first jobs) <i>Ref.: Not self-employed</i>			
Self-employed	.54**	.53**	.60**
German nationality <i>Ref.: Yes</i>			
No		1.64**	1.86**
Denomination <i>Ref.: Protestant</i>			
Catholic/ other Christian religion		1.09	.99
Islam /non-Christian religion		1.30	.88
Atheist/ no answer		.82	.84
Grown up with parents up to age 16 <i>Ref.: With parents</i>			
Divorced parents/unmarried		.85	.84
Death of a parent		.50*	.59

Siblings <i>Ref.: No</i> Yes		1.56**	1.51**
Father's educational qualification <i>Ref.: Rest</i> Intermediate/ upper secondary school + educational training University degree		.82 .75	.75** .76
Status of relationship(<i>time-varying</i>) <i>Ref.: No relationship</i> Living-apart-together Cohabitation Married			1.73** 2.60** 12.37**
N of cases Log-likelihood	1707 13166	1707 13090	1707 12047

Significant: * p < 0.05; **p < 0.001