Don’t Aim Too High for Your Kids: Parental Overaspiration Undermines Students’ Learning in Mathematics

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Previous research has suggested that parents’ aspirations for their children’s academic attainment can have a positive influence on children’s actual academic performance. Possible negative effects of parental overaspiration, however, have found little attention in the psychological literature. Employing a dual-change score model with longitudinal data from a representative sample of German school children and their parents (N = 3,530; Grades 5 to 10), we showed that parental aspiration and children’s mathematical achievement were linked by positive reciprocal relations over time. Importantly, we also found that parental aspiration that exceeded their expectation (i.e., overaspiration) had negative reciprocal relations with children’s mathematical achievement. These results were fairly robust after controlling for a variety of demographic and cognitive variables such as children’s gender, age, intelligence, school type, and family socioeconomic status. The results were also replicated with an independent sample of U.S. parents and their children. These findings suggest that unrealistically high parental aspiration can be detrimental for children’s achievement.

Keywords: parental expectation, mathematical achievement, latent difference score model, cross-lagged analysis, aspiration–expectation gap

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It has been commonly recognized that parental beliefs and attitudes have substantive effects on their children’s academic outcomes (Eccles, Wigfield, & Schiefele, 1998). Among many parental beliefs, parental aspiration for their children’s academic achievements has received considerable attention over the past half century in the literature of both psychology and sociology (for a review, see Yamamoto & Holloway, 2010). In psychology, for example, several social–cognitive models like the expectancy-value theory (Parsons, Adler, & Kaczala, 1982; see also Bronfenbrenner & Morris, 1998; Grolnick & Slowiaczek, 1994; Oyserman, 2013) have suggested that parental aspiration can influence children’s academic achievement through a socialization processes. In the Wisconsin model of status attainment proposed by sociologists (Sewell, Haller, & Ohlendorf, 1970; Sewell, Haller, & Portes, 1969; see also Kerckhoff, 1976), parental aspiration has been posited to be one of the critical mediators that link family social background to children’s educational and occupational attainment.

In accordance with these theoretical predictions, the positive associations between parental aspiration and children’s academic attainment have been investigated in numerous empirical studies.

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The findings indicate a strong positive link between the two variables (Bandura, Barbaranelli, Caprara, & Pastorelli, 1996; DeCivita, Pagani, Vitaro, & Tremblay, 2004; Frome & Eccles, 1998; Okagaki & Sternberg, 1993), and this relationship seems robust across cultures and age groups (Astone & McLanahan, 1991; DeCivita et al., 2004; Halle, Kurtz-Costes, & Mahoney, 1997; NeuenSchwander, Vida, Garrett, & Eccles, 2007). In fact, among the various specific components of parental involvement, parental aspiration yielded the largest effect size in relation to academic performance, as shown by meta-analytic findings (Fan & Chen, 2001; Jeynes, 2005, 2007). From this practical perspective, this evidence suggests that it may be important to enhance parents’ aspirations to promote children’s academic performance (Jeynes, 2011).

Issues in Empirical Research on Parental Aspiration and Academic Achievement

The existing literature provides strong evidence for a positive association between parental aspiration and academic achievement. These previous studies may lead people to think that there is nothing to question about the beneficial effects of holding high aspirations for their children. However, there are two critical issues that have not been sufficiently considered in the existing literature.

Temporal Ordering and Possible Reciprocal Effects

First, many of the previous studies tested the relation between parental aspiration and student’s academic achievement using cross-sectional or prospective designs (e.g., Bandura et al., 1996; Davis-Kean, 2005; DeCivita et al., 2004; Frome & Eccles, 1998; Okagaki & Sternberg, 1993; Pearce, 2006). Such designs leave the temporal order of aspiration and achievement unclear. The positive relation between parental aspiration and children’s academic performance may well be because of reverse-order effects—children’s high academic achievement may lead parents to adopt high aspirations. Only a limited number of longitudinal studies have strictly controlled students’ past academic achievement to examine the temporal ordering of aspirations and academic achievement (for a similar note, see Yamamoto & Holloway, 2010). Moreover, these longitudinal studies have several methodological limitations, such as a small sample size (e.g., N = 81 in Goldenberg, Gallimore, Reese, & Garnier, 2001) or designs including only two waves (Carpenter, 2008; Zhang, Haddad, Torres, & Chen, 2011). In addition, some studies used school grades as a proxy for academic achievement (e.g., NeuenSchwander et al., 2007), although grades have been argued to not be an adequate or valid measure of academic achievement (Graham, 2015). Likely because of these methodological problems, the results of these longitudinal studies have been inconsistent (Carpenter, 2008; Goldenberg et al., 2001; Zhang et al., 2011).

To our knowledge, the only exception is a recent study by Briley, Harden, and Tucker-Drob (2014). This study tested possible reciprocal effects between parental expectations and U.S. students’ achievement in mathematics and reading with a large, nationally representative sample, and used a longitudinal design including four waves (kindergarten through 5th grade). The results of cross-lagged analysis showed that parental expectation had positive effects on students’ academic achievement even after controlling for their past academic achievement. It is worth noting that the authors also found positive effects of academic achievement on parental expectation (after controlling for previous parental expectation). These reciprocal positive relationships between parental expectation and academic achievement (see also Zhang et al., 2011) support the idea that parent–child socialization processes can be characterized as a transactional (i.e., bidirectional), not a one-way transmission (Bell, 1968). This research seemed to provide the strong evidence for the facilitative effects of parental aspiration on children’s academic achievement (and vice versa). However, they focused on parental expectation and did not directly examine the effects of parental aspiration—as we will later elaborate, this distinction is of particular theoretical importance to understand the dynamic parental–children relationships. In addition, the robustness and the generalizability of the findings (e.g., research in different cultures or with different age groups) are still left as an open question.

Potential Negative Effects of Parental Overaspiration

Second, and more importantly, in contrast to the large body of literature showing positive links between parental aspiration and children’s academic performance, there is a surprising lack of research that has examined possible adverse effects of parental aspiration (Yamamoto & Holloway, 2010). Parents with high aspirations for their children’s academic attainment are likely to be committed to, and highly involved with, their children, which will typically enhance children’s academic achievement (Halle et al., 1997). However, excessively high parental aspiration that exceeds realistic expectations of the children’s performance (i.e., parental overaspiration) may lead to overinvolvement, excessive pressure to achieve, and high levels of control over a child’s behavior. Such parental control behavior is likely to contribute to a child’s maladjustment (Grolnick, 2003; Roth, Assor, Niemiec, Deci, & Ryan, 2009). Other lines of research also indicate that unrealistically positive perceptions can increase the risk of negative outcomes (e.g., Baumeister, 1989; Robins & Beer, 2001; Weinstein, 1980). Thus, it is possible that parental overaspiration can have deleterious effects on children’s academic achievement.

We define parental overaspiration as the extent to which parental aspiration (“We want our child to obtain this grade”) exceeds parental expectation (“We believe our child can obtain this grade”). Parental aspiration and expectation both focus on potential future achievement (i.e., the constructs are different from current or prior achievement), but are distinct in their specific foci. Parental aspiration is defined as the desires, wishes, or goals that parents have formed regarding their children’s future attainment; parental expectation is characterized as beliefs or judgments that parents have about how their children’s achievement will develop realistically (Hanson, 1994). Despite this conceptual difference, in the psychological literature, the constructs of parental aspiration and expectation have often been used interchangeably (Shute, Hansen, Underwood, & Razouk, 2011; Trusty, 2002; Yamamoto & Holloway, 2010). In fact, some researchers regarded an aspiration item as an index of parental expectation (e.g., Juang & Silbereisen, 2002; Zhang et al., 2011). Some other researchers assessed parental aspirations and expectations separately but combined them into a single measure (e.g., Bandura et al., 1996).
This potential confounding of the two constructs in empirical research is somewhat surprising, given that several theories in psychology actually suggest the importance of distinguishing them. For example, in their framework of possible selves, Markus and Nurius (1986; see also Oyserman & Markus, 1990) argued that motivation and behavior are guided by several different types of self-concepts, including hoped-for selves (akin to aspiration) and expected selves (akin to expectation). Self-discrepancy theory (Higgins, 1987; see also identity discrepancy theory, Large & Maccusse, 2000) indicates that people have differentiated self-representations of “actual-self” (akin to expectation) and “ideal-self” (akin to aspiration). Notably, self-discrepancy theory argues that the incongruence between actual-self and ideal-self could produce lower self-esteem and negative emotions, such as depression and frustration (Strauman & Higgins, 1987; but see Scalas, Marsh, Morin, & Nengast, 2014), suggesting potential problems of having overaspiration.

In contrast to research in psychology, researchers in sociology have long made a clear distinction between expectation and aspiration, especially for students’ occupational attainment. Stevenson (1957), for example, distinguished between occupational aspirations (i.e., what one would like to achieve) and plans (what one expects to do), and found a larger gap between occupational aspiration and expectation in students from lower social background. In fact, the “aspiration-expectation gap” in minority groups or those with low socioeconomic status (SES) has long been one of the major topics in sociology (e.g., Arbona, 1990; Holloway & Berreman, 1959; Kirk et al., 2012). There is also a long line of research examining an apparent paradox that African American parents tend to have high aspiration for their children despite their poor academic achievement or low parental expectations (Mickelson, 1990). The majority of these studies, however, considered the gap between aspirations and expectations as a consequence of minority status or impoverished socioeconomic background (Cook et al., 1996; Elliott, 2009; Kirk et al., 2012; Metz, Fouad, & Ihle-Helledy, 2009); little attention has been paid to the potential harmful effects of having such a gap.

Only a few recent studies explored possible negative consequences of overaspiration. Boxer, Goldstein, DeLorenci, Savoy, and Mercado (2011) compared students whose self-reported aspiration was greater than their self-reported expectation (overaspirated students) and students whose aspiration matched their expectation. Results showed that overaspired students exhibited several academic and social risks, such as lower levels of school bonding, higher levels of test anxiety, elevated behavioral/emotional difficulties, and lower self-reported school grades. Rutherford (2015) found that the mismatch between students’ self-reported aspiration and expectation negatively predicted students’ emotional well-being. However, these studies used cross-sectional designs, making it impossible to determine the temporal ordering of the variables. In addition, these studies did not examine objective academic achievement. Furthermore, their primary focus was on students’ self-reported aspiration and expectation; thus, the data do not speak to whether parental overaspiration influences children’s academic performance (i.e., intergenerational effects). In order to examine possible adverse or beneficial effects of parental overaspiration on children’s academic achievement, we need a more rigorous examination.

### Present Research

The current research aimed to advance our understanding of the relations between parents’ aspiration and their children’s academic achievement by addressing the number of critical issues earlier (see earlier discussion). Specifically, we first aimed to rigorously examine the effects of parents’ aspirations on their children’s achievement, as well as possible reciprocal effects of children’s achievement on their parents’ aspirations. We did so by analyzing a large-sample, multivariate, intergenerational longitudinal data set with an advanced quantitative methodology: the dual-change score model (McArdle, 2009; McArdle & Hamagami, 2001). This methodology makes full use of information from multivariate data and allows us to examine the temporal ordering of the variables in a more sophisticated manner than the standard cross-lagged model (for limitations of the cross-lagged model, see, e.g., Hamaker, Kuiper, & Grasman, 2015, and Rogosa, 1980). We then highlighted possible negative aspects of parental aspiration with regard to children’s achievement. Specifically, we applied the same dual-change score model with parental overaspiration (i.e., parental aspiration relative to parental expectation) as an alternative predictor variable, and investigated whether parental overaspiration would negatively predict the change in academic achievement over time (and vice versa). To our knowledge, this is the first multivariate study examining the negative reciprocal relations of parental overaspiration and children’s achievement. To demonstrate the robustness and generalizability of our findings, we also attempted to replicate the main findings of the study with another large sample of U.S. parents and children.

### Method

#### Participants and Design

The sample consisted of German children who participated in the Project for the Analysis of Learning and Achievement in Mathematics (PALMA; see Frenzel, Pekrun, Dicke, & Goetz, 2012; Murayama, Pekrun, Lichtenfeld, & vom Hofe, 2013; Pekrun et al., 2007). This project included a longitudinal study involving annual assessments during the secondary school years (Grades 5 to 10; 2002 to 2007) to investigate adolescents’ development in mathematics. At each grade level, the PALMA math achievement test and a parental questionnaire were administered toward the end of the school year during the same day. The sampling and the assessments were conducted by the Data Processing and Research Center (DPC) of the International Association for the Evaluation of Educational Achievement (IEA).

Samples were drawn from secondary schools in the state of Bavaria, and were drawn so that they were representative of the child population of Bavaria in terms of student demographics such as gender, urban versus rural location, and family background (SES; for details, see Pekrun et al., 2007). The samples included children from all three major school types within the German public school system, including lower-track schools (Hauptschule), intermediate-track schools (Realschule), and higher-track schools (Gymnasium). These three school types differ in academic demands and children’s entry-level academic ability. At the first assessment (Grade 5), the sample comprised 2,070 children from 42 schools (49.6% female, mean age = 11.7 years;
of these two items was adopted from the previous literature (e.g., Goldenberg et al., 2001; Okagaki & Frensch, 1998).

Control variables. Control variables included children’s gender, age in months at Time 1 (Grade 5), intelligence, school type (Hauptschule, Realschule, and Gymnasium), and family SES. Students’ age in months at Grade 5 was included because previous research indicated that the age variability within grades (i.e., whether they were born earlier or later within a grade) can be associated with achievement scores (e.g., Cahan & Cohen, 1989). This variable was anchored to the youngest student in the sample (i.e., all the students have a value of 0 or above 0). Intelligences was measured at every annual wave using the 25-item nonverbal reasoning subtest of the German adaptation of Thordalke’s Cognitive Abilities Test (Kognitive Fähigkeitsfest, KFT 4–12 + R; Heller & Perleth, 2000). Family SES was assessed by parent report using the EGP classification (Erikson, Goldthorpe, & Portocarero, 1979), which consists of six ordered categories of parental occupational status.

Data Analysis

To address longitudinal change and reciprocal effects of parental aspiration (or oversatiation) and mathematics achievement, a bivariate dual-change score model (McArdle & Hamagami, 2001) using structural equation modeling was applied. Traditionally, multivariate longitudinal data are analyzed using either cross-lagged regression models (Finkel, 1995) or latent growth-curve models (McArdle & Anderson, 1990). Cross-lagged regression models address the temporal ordering of variables, thus providing a strong basis for causal inference. Latent growth-curve models, on the other hand, address overall mean growth trends and related individual differences by incorporating latent growth factors. Dual-change score models can be viewed as a hybrid of these two classes of models, combining cross-lagged effects and growth factors in a single model to delineate the dynamic nature of longitudinal trajectories (Ferrer & McArdle, 2003; McArdle, 2009; McArdle & Hamagami, 2001).

A bivariate dual-change score model is depicted in Figure 1. The key variables of the model are $a_{xt}$ and $b_{xt}$, which represent scores for true change in $x$ and $y$ between the previous time point $(t-1)$ and the current time point $(t)$. Importantly, a latent change variable (e.g. $a_{xt}$) is a function of (a) a constant change effect of an overall slope factor ($c_{xt}$), (b) an autoproportional effect ($b_{xt}$) of a latent factor representing the same variable at the previous time point ($c_{xt-1}$), (c) a coupling effect ($y_{xt-1}$) of a latent factor representing the other variable at the previous time point ($y_{xt-1}$), and (d) an effect of disturbance ($\delta_t$). Note that the model also includes an intercept factor (e.g., $I_t$), representing the baseline scores (i.e., scores at Grade 5 in our context) of each variable. Equality constraints are imposed on coupling coefficients ($y_{xt-1}$ and $y_{xt-1}$), autoproportional coefficients ($b_{xt}$ and $b_{xt}$), disturbance variances, and error variances over time.

Particular interest in our current study is the predictive relation between parental aspiration (or oversatiation) and subsequent improvement in mathematics achievement, as well as the predictive relation between mathematics achievement and subsequent growth in aspirations, which are reflected in the coupling coefficients ($y_{xt-1}$ and $y_{xt-1}$). Note that, unlike the procedure in traditional cross-lagged regression modeling, coupling coefficients...
in dual-change score models are estimated while controlling for the effect of individual differences in an overall mean value ($I_x$) and an overall growth component ($S_x$). This makes it possible to precisely estimate the effect of a variable at the preceding time point on the change of the other variable (Usami, Hayes, & McArdle, in press; see also Hamaker, Kuiper, & Grasman, 2015). In addition, as our primary variables use a metric that makes scores comparable over time (e.g., achievement scores are scaled across time points using Rasch scaling), their change scores provide useful information to understand people’s change over time; thus, bivariate dual-change score modeling has many advantages in light of the main purpose of our study.

We assessed the fit of the data to bivariate dual-change score models with standard fit indices including the comparative fit index (CFI), the Tucker-Lewis index (TLI), and the root mean square error of approximation (RMSEA). We report unstandardized estimates for ease of interpretation. In the analysis, we adjusted the standard errors and chi-square statistics to correct for potential statistical biases resulting from non-normality of the data (MLR estimator; Muthén & Muthén, 2004). Because of the longitudinal design of the study, there are missing data resulting from participant attrition. Accordingly, in order to make full use of the data from children and parents who only participated in part of the investigation, we applied the full information maximum likelihood method to deal with missing data (Enders, 2010).

**Results**

**Parental Aspiration and Children’s Mathematical Achievement**

We first examined the reciprocal relation between parental aspiration and children’s mathematical achievement. Parental aspiration showed a slight decrease over time from 5th grade to 10th grade, $M$s (SDs) = 4.87 (0.63), 4.79 (0.65), 4.72 (0.68), 4.69 (0.71), 4.69 (0.73), and 4.70 (0.75), respectively—the linear decreasing trend was statistically significant, $p < .01$. Not surprisingly, Rasch-scaled math achievement scores increased over time from 5th grade to 10th grade, $M$s (SDs) = 100.0 (15.0), 111.1 (16.5), 115.3 (17.3), 125.7 (18.6), 131.0 (20.0), and 147.0 (15.4), respectively—the linear increasing trend was statistically significant, $p < .01$. 

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*Figure 1. Bivariate dual-change score model. Squares represent observed variables; circles represent latent variables; dots represent an implied repetition of a time series. Paths (one-headed arrows) without coefficients (e.g., $\beta$) are all fixed to 1.*
Table S1 of the online supplemental materials reports the correlations of parental aspiration scores with the other study variables. Consistent with previous studies, parents’ aspiration was positively correlated with their children’s math achievement scores at each time point ($r_{\text{mean}} = 0.23, p < .01$). Parental aspiration was also correlated with children’s intelligence, but the relationship seemed somewhat weaker ($r_{\text{mean}} = 0.16, p < .01$). Parents of children from higher- or intermediate-track school and parents of female children were found to have slightly lower aspiration scores (see Table S1).

**Reciprocal effects.** A bivariate dual-change score model (see Figure 1) was applied to address the reciprocal relations between parental aspiration and mathematical achievement. A preliminary analysis indicated that the variance of the aspiration slope factor and the covariance between the aspiration intercept and mathematical achievement slope factors were small, and that the small size of these estimates caused improper solutions in the basic model and subsequent more complicated models tested later. Therefore, we fixed these parameters to zero. The model showed a good fit to the data, $\chi^2(72) = 680.2, p < .01, \text{CFI} = .95, \text{TLI} = .95, \text{RMSEA} = .049$.

Table 1 reports parameter estimates from the dual-change score model (see Table S2 of the online supplemental materials for the full parameter estimates). The model clearly shows that parental aspiration and children’s math performance were linked by positive reciprocal effects. Specifically, the coupling effect of parental aspiration on growth of math achievement was positive and statistically significant ($\gamma_{\text{aspiration} \rightarrow \text{math}} = 0.811, p < .01$), meaning that a unit difference in the aspiration score adds a 0.811 point increase to the change score in the math achievement. In addition, the coupling effect of math achievement on change of parental aspiration was also positive and statistically significant ($\gamma_{\text{math} \rightarrow \text{aspiration}} = 0.001, p < .01$). These findings provide empirical evidence that the extent to which parents want their children to perform well at school not only affects children’s growth in mathematics achievement but also is influenced by children’s previous math achievement (Zhang et al., 2011).

**Analysis including control variables.** To ensure that the obtained findings were not an artifact produced by other plausible variables, we conducted a series of analyses that included control variables. First, we included children’s gender, age at the first time point in months, intelligence (also assessed at the first time point), school type (with two orthogonally coded variables), and SES as time-invariant covariates by regressing the intercept and slope factors on these covariates, which is a standard method to control for participant-level variables in latent growth curve models (see Duncan, Duncan, & Strycker, 2006). The positive reciprocal coupling effects remained statistically significant ($\gamma_{\text{aspiration} \rightarrow \text{math}} = 1.195, p < .01; \gamma_{\text{math} \rightarrow \text{aspiration}} = 0.002, p < .01$).

Second, we conducted multigroup analyses to examine possible differences in the parameter estimates between genders, school types, and family SES. Note that the data from the lower-track school did not sufficiently cover the covariance involving Grade 10 variables, because most children from the lower-track schools had graduated after Grade 9. Accordingly, it is not possible to conduct a multigroup analysis using the lower-track children as an independent group. Thus, we combined the lower-track schoolchildren and intermediate-track schoolchildren for the multigroup analysis. For family SES, students were divided into a high-SES group (those who were in the top three categories) and a low-SES group (those who were in the bottom three categories).

Table 1 reports the results from models that allowed parameter estimates to differ between groups. The results showed that there were generally significant positive effects of parental aspiration on mathematics achievement regardless of children’s gender and family SES ($\gamma_{\text{aspiration} \rightarrow \text{math}} = 0.538$ to $1.082, p < .054$). In fact, chi-square difference tests indicated that the coupling effects ($\gamma_{\text{aspiration} \rightarrow \text{math}}$) did not statistically differ between male and female children, $\chi^2(1) = 2.12, ns$, and between low-SES and high-SES groups, $\chi^2(1) = 2.05, ns$. School type is the only exception; Whereas the effects of parental aspirations on mathematics achievement were positive and statistically significant for children from higher-track schools, $\gamma_{\text{aspiration} \rightarrow \text{math}} = 1.550, p < .01$, the effect did not reach statistical significance for children from intermediate- and lower-track schools, $\gamma_{\text{aspiration} \rightarrow \text{math}} = 0.369, ns$. Chi-square difference tests indicated that the coupling effects were indeed larger for children from higher-track schools than for children from intermediate- and lower-track schools, $\chi^2(1) = 12.19, p < .01$.

The effects of children’s math achievement on parental aspirations showed more variation across groups. Specifically, whereas the coupling effects were positive and statistically significant for female children, higher-track schools, and the low-SES group ($\gamma_{\text{math} \rightarrow \text{aspiration}} = 0.001$ to $0.003, p < .01$), the same effects were not significant for males, intermediate- and lower-track schools, and the high-SES group ($\gamma_{\text{math} \rightarrow \text{aspiration}} = 0.000$ to $0.001$). Note, however, that the group differences were statistically significant only for school type and family SES, $\chi^2(1) > 4.21, p < .05$. For gender, the difference did not attain statistical significance $\chi^2(1) = 2.12, ns$.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Total</th>
<th>Male</th>
<th>Female</th>
<th>Lower and intermediate track</th>
<th>Higher track</th>
<th>Low SES</th>
<th>High SES</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\gamma_{\text{aspiration} \rightarrow \text{math}}$</td>
<td>0.811**</td>
<td>0.538†</td>
<td>1.082**</td>
<td>0.369</td>
<td>1.550**</td>
<td>0.868**</td>
<td>0.929**</td>
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<tr>
<td>$\gamma_{\text{math} \rightarrow \text{aspiration}}$</td>
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<td>0.001</td>
<td>0.001**</td>
<td>0.000</td>
<td>0.003**</td>
<td>0.001</td>
<td>0.002***</td>
</tr>
<tr>
<td>$\beta_{\text{aspiration}}$</td>
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<td>$-0.034$</td>
<td>$-0.049^*$</td>
<td>$-0.032^*$</td>
<td>$-0.055^*$</td>
<td>$-0.041$</td>
<td>$-0.054^*$</td>
</tr>
<tr>
<td>$\beta_{\text{math}}$</td>
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<td>$-0.024$</td>
<td>$-0.061^*$</td>
<td>0.013</td>
<td>$-0.100^*$</td>
<td>$-0.030^*$</td>
<td>$-0.060^*$</td>
</tr>
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*Note.* SES = socioeconomic status.

† $p < .10$. † $p < .05$. ** $p < .01$. **
Finally, we ran a trivariate dual-change score model including parental aspiration, mathematics achievement, and intelligence as assessed at Grades 5 through 10 in order to examine whether the reciprocal effects hold after controlling for intelligence as a time-varying variable. As in the main analysis, the variance of the intelligence slope factor and the covariance between the intelligence intercept and math achievement slope factors were fixed to zero to avoid improper solutions. The results showed substantial reduction in the effect of parental aspiration, indicating the importance of controlling for basic cognitive ability to examine parenting and academic growth, but the positive reciprocal coupling effects were still statistically significant ($\gamma_{\text{aspiration} \rightarrow \text{math}} = 0.413, p < .05$, and $\gamma_{\text{math} \rightarrow \text{aspiration}} = 0.001, p < .01$). These results provide further strong support for the reciprocal relations between parental aspiration and children’s mathematical achievement.

**Robustness check.** To demonstrate that our results do not depend on a specific model that we applied (i.e., the bivariate dual-change score model), we ran a traditional cross-lagged model in which one variable at $T-1$ predicts the other variable at $T$ after controlling for autoregressive ($T-1$) effects. To align the model with the dual-change score model, we did not incorporate any higher-order autoregressive and cross-lagged effects (e.g., the effects of parental aspiration at $T-2$ on children’s mathematics achievement at $T$) and assumed stationarity of residuals and cross-lagged effects (i.e., the cross-lagged effects were fixed to be invariant across time points). Consistent with the findings obtained for the dual-change score model, the analysis showed that parental aspiration and children’s math performance were linked by positive reciprocal effects. Specifically, the lagged effect of parental aspiration on math achievement was positive and statistically significant, $\gamma_{\text{aspiration} \rightarrow \text{math}} = 1.268, p < .01$, and the effect of math achievement on parental aspiration was also positive and statistically significant $\gamma_{\text{math} \rightarrow \text{aspiration}} = 0.005, p < .01$.

**Parental Overaspiration and Children’s Mathematics Achievement**

To examine the relation between parental overaspiration and children’s mathematical achievement, we computed the extent to which parents’ aspiration exceeded their expectation for their children (i.e., parental aspiration minus parental expectation). For cases in which parental expectation was higher than parental aspiration (i.e., underaspiration), the value was set to zero, as our focus was parental overaspiration, not underaspiration (see the “Robustness check” section for further analyses using alternative indices). The newly created variable representing parental overaspiration showed a slight decrease over time, indicating that parents may become more realistic as their children grow up, $M_s (SD_s) = 0.35 (0.52), 0.35 (0.52), 0.34 (0.52), 0.32 (0.52), 0.27 (0.48)$, and $0.20 (0.42)$ for 5th grade to 10th grade, respectively—the linear decreasing trend was statistically significant, $p < .01$. Unlike parental aspirations that decreased over time, as noted earlier, parental expectation did not increase or decrease over time, $M_s (SD_s) = 4.62 (0.74), 4.55 (0.79), 4.51 (0.80), 4.53 (0.85), 4.59 (0.83)$, and $4.70 (0.87)$ for 5th to 10th grade, respectively—the linear trend was not statistically significant, $p = .28$. This pattern indicates that parents adjusted their aspiration rather than their expectation over time, implying that the change in overaspiration scores mainly reflects change in parental aspiration.

To illustrate how parental aspirations and parental expectations were associated, Table 2 includes a cross table of these two variables at Grade 5 (see Table S3 of the online supplemental materials for crosstabs for the other grade levels). More than half of the parents (57.8%) exhibited aspirations that matched their expectations, but more than 30% of the parents showed overaspiration.

Table S4 of the online supplemental materials reports the correlations of parental overaspiration scores with the other study variables. One remarkable observation is that parental overaspiration was negatively correlated with math achievement scores ($r_{\text{mean}} = -0.21, ps < .01$). This correlation suggests that parental overaspiration could have a detrimental effect on children’s math achievement. Parental overaspiration was also negatively correlated with intelligence, but again, the relationship with intelligence seemed weaker ($r_{\text{mean}} = -0.16, ps < .01$). Consistent with previous studies (e.g., Boxer et al., 2011), parental overaspiration (i.e., the aspiration–expectation gap) was larger for parents from low-SES families ($r_{\text{mean}} = -0.09, ps < .01$). Parents’ overaspiration did not differ depending on the gender of their children, but parents of children from higher- or intermediate-track school tended to have slightly smaller overaspiration scores than parents of children from lower-track schools (see Table S4).

**Reciprocal effects.** We again applied a bivariate dual-change score model to address the reciprocal relations between parental overaspiration and children’s mathematical achievement. As in the analysis for parental aspiration, a preliminary analysis indicated that the variance of the overaspiration slope factor and the covariance between the overaspiration intercept and mathematical achievement slope factors were small, and that the small size of these estimates caused improper solutions in the basic model and more complicated models tested later. Therefore, we again fixed these parameters to zero. The dual-change score model fitted the data well, $\chi^2 (72) = 740.0, p < .01$, $CFI = .94$, $TLI = .94$, $RMSEA = .051$.

Table 3 reports unstandardized parameter estimates from the dual-change score model (see Table S5 of the online supplemental materials for the full parameter estimates; for completeness, the full parameter estimates of a dual-change score model for parental expectations are also reported in Table S6). Importantly, the model showed reciprocal negative effects linking parental overaspiration and children’s mathematical achievement performance over time. Specifically, the coupling effect of parental overaspiration on

**Table 2**

<table>
<thead>
<tr>
<th>5th grade aspiration</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.1%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2</td>
<td>0.1%</td>
<td>0.0%</td>
<td>0.1%</td>
<td>0.3%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>3</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.4%</td>
<td>3.5%</td>
<td>0.7%</td>
<td>0.0%</td>
</tr>
<tr>
<td>4</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.1%</td>
<td>14.8%</td>
<td>21.2%</td>
<td>1.0%</td>
</tr>
<tr>
<td>5</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.1%</td>
<td>5.0%</td>
<td>37.4%</td>
<td>6.5%</td>
</tr>
<tr>
<td>6</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.2%</td>
<td>3.6%</td>
<td>5.1%</td>
</tr>
</tbody>
</table>

*Note.* Range of scores for aspiration and expectation: 1 = worst grade to 6 = best grade.
growth of math achievement was negative and statistically significant, $\gamma_{\text{overaspiration \rightarrow math}} = -3.319$, $p < .01$, indicating that a unit difference in parental overaspiration predicted a 3.319 point decrease in the change (i.e., growth) score of a child’s mathematics achievement. Interestingly, the coupling effect of math achievement on change of parental overaspiration was also negative and statistically significant $\gamma_{\text{math \rightarrow overaspiration}} = -0.001$, $p < .01$, suggesting that higher achievement scores predicted a stronger decrease of parental overaspiration. These findings suggest that excessive parental aspiration can do harm to children’s mathematical achievement over time.

**Analysis with control variables.** To ensure that the obtained findings were not an artifact produced by other variables, we conducted the same set of control variable analyses as with the aspiration data. First, we included children’s gender, age at the first time point in months, intelligence at the first time point, school type, and family SES as time-invariant covariates by regressing slope and intercept factors on these control variables. The negative influence of parental overaspiration on the change in mathematics achievement remained statistically significant ($\gamma_{\text{overaspiration \rightarrow math}} = -1.987$, $p < .01$). The reverse negative effect also remained statistically significant ($\gamma_{\text{math \rightarrow overaspiration}} = -0.001$, $p < .01$).

Second, we conducted multigroup analyses to examine whether the parameter estimates differed between genders, school types, or families with different SES. As can be seen from Table 3, the results showed that the negative effects of parental overaspiration on change in mathematics achievement were robustly consistent across genders, school types, and SES: The negative coupling effects were statistically significant for all of the subgroups in these analyses, that is, for both male and female students, for students from all school tracks, and for students from high- versus low-SES families ($\gamma_{\text{overaspiration \rightarrow math}} = -4.124$ to $-1.486$, $ps < .01$). The negative coupling effects of math achievement on parental overaspiration also remained significant across groups, but not male students ($p = .12$) and higher-track schools ($p = .09$). Further analyses with chi-square difference tests indicated that the coupling effects ($\gamma_{\text{overaspiration \rightarrow math}}$ and $\gamma_{\text{math \rightarrow overaspiration}}$) did not statistically differ between males and females, $\chi^2(1) < 2.68$, $ns$, and between low- and high-SES groups, $\chi^2(1) < 0.32$, $ns$. The negative coupling effect of parental overaspiration on mathematics achievement, however, was significantly larger in higher-track schools compared with intermediate- and lower-track schools, $\gamma_{\text{overaspiration \rightarrow math}} = -3.502$ and $-1.486$, respectively, $\chi^2(1) = 4.87$, $p < .05$, suggesting that parental overaspiration may have a more deleterious influence for higher-track schoolchildren. The reverse coupling effect ($\gamma_{\text{math \rightarrow overaspiration}}$) did not significantly differ between the school types, $\chi^2(1) = 0.88$, $ns$.

Finally, we ran a trivariate dual-change score model including parental overaspiration, mathematical achievement, and intelligence as assessed at Grades 5 through 10 to examine whether the reciprocal effects remain after controlling for intelligence as a time-varying variable. The variance of the intelligence slope factor and the covariance between the intelligence intercept and math achievement slope factors were again fixed to zero. The results showed a substantial reduction in the effects of parental overaspiration, again indicating the importance of controlling for basic cognitive ability to examine parenting and academic growth, but the negative reciprocal coupling effects were still statistically significant ($\gamma_{\text{overaspiration \rightarrow math}} = -2.417$, $p < .01$, and $\gamma_{\text{math \rightarrow overaspiration}} = -0.001$, $ps < .01$). These results provide further strong support for the negative effect of parental overaspiration on children’s mathematical achievement.

**Robustness check.** Again, to demonstrate that our results do not depend on the specific modeling approach we applied (i.e., the bivariate dual-change score model), we ran a traditional cross-lagged model. The model was specified in the same way as the cross-lagged model with parental aspirations. Consistent with the findings obtained in the dual-change score model, the analysis showed that parental overaspiration and children’s math performance were linked by negative reciprocal effects. Specifically, the lagged effect of parental overaspiration on math achievement was negative and statistically significant, $\gamma_{\text{overaspiration \rightarrow math}} = -1.839$, $p < .01$, and the effect of math achievement on parental overaspiration was also negative and statistically significant, $\gamma_{\text{math \rightarrow overaspiration}} = -0.005$, $p < .01$.

Our operationalization of overaspiration does not allow parents who exhibited the highest level of parental expectations to have nonzero overaspiration scores (a version of a ceiling effect). To address this potential problem, and to address more general concerns about difference score approaches (e.g., Cohen, Cohen, West, & Aiken, 2003), we regressed parental aspiration on parental expectation and used positive residual scores as an alternative index of parental overaspiration. This new index also showed a significant negative coupling effect on growth of math achievement, $\gamma_{\text{overaspiration \rightarrow math}} = -4.054$, $p < .01$. A set of analyses including control variables did not change the results. To further examine the potential impact of ceiling effects, we estimated the dual-change score model after excluding parents who had the highest possible parental expectation scores (i.e., a score of 6) at

### Table 3

**Effects of Overaspiration: Unstandardized Parameter Estimates for the Dual-Change Score Model and the Multigroup Analyses, Including Gender, School Type, and Family SES**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Children’s gender</th>
<th>School type</th>
<th>Family SES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>$\gamma_{\text{overaspiration \rightarrow math}}$</td>
<td>$-3.319^{**}$</td>
<td>$-2.537^{**}$</td>
<td>$-4.124^{**}$</td>
</tr>
<tr>
<td>$\gamma_{\text{math \rightarrow overaspiration}}$</td>
<td>$-0.001^{**}$</td>
<td>$-0.001$</td>
<td>$-0.001^{*}$</td>
</tr>
<tr>
<td>$\beta_{\text{overaspiration}}$</td>
<td>$-0.055^{**}$</td>
<td>$-0.036^{**}$</td>
<td>$-0.077^{**}$</td>
</tr>
<tr>
<td>$\beta_{\text{math}}$</td>
<td>$-0.157^{**}$</td>
<td>$-0.138^{**}$</td>
<td>$-0.169^{**}$</td>
</tr>
</tbody>
</table>

*Note.* SES = socioeconomic status.

* $p < .10$.  ** $p < .05$.  *** $p < .01$.  

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any single point of time (i.e., parents who cannot have positive overaspiration scores). The analysis with this restricted sample (N = 2,947) still showed statistically significant negative reciprocal effects (γoveraspiration → math = −2.426, p < .01 and γmath → overaspiration = −0.001, p < .05). These results indicate that our findings are not an artifact of using difference scores to operationalize parental overaspiration.

In addition, we examined whether parental underaspiration had an effect on achievement scores, in order to examine whether our findings were caused by parental overaspiration specifically rather than an aspiration–expectation gap more generally. We computed the extent to which parental aspiration was smaller than parental expectation (i.e., parental expectation minus parental aspiration, with values smaller than zero being truncated to zero), and applied a dual-change score model. The results showed no significant effects of parental underaspiration on math achievement scores, γunderaspiration → math = −1.178, ns. This finding indicates that the observed effect is specific to parental overaspiration, rather than being a case of more general aspiration-expectation discrepancy effects.

Replication With a New Data Set

Replication data and procedure. We further aimed to replicate the main findings with another data set. For that purpose, we used data from the Educational Longitudinal Study, 2002 (ELS: 2002; Ingels, Pratt, Rogers, Siegel, & Stutts, 2004) database. The publicly available database comes from a large-sample U.S. longitudinal study of 10th graders in 2002 and 12th graders in 2004, and this is the fourth in a series of longitudinal studies that was conducted by the National Center for Educational Statistics. Importantly, the data include both parental aspiration and expectation (parent reports) as well as students’ mathematical achievement scores, making it possible to examine the effects of parental aspiration and overaspiration.

The study included a nationally representative sample of 16,197 10th graders (50.3% female) assessed in 2002 (at the time of the baseline assessment, mean age = 15.7 years). In the baseline assessment, mathematics achievement was assessed using a mix of multiple choice and open-ended items addressing simple mathematical skills, comprehension of mathematical concepts, and mathematical problem solving ability. We used the standardized scores available in the data set (M = 50.71, SD = 9.91). Parental aspiration was assessed by a single Likert-scale item asking how far in school the parent wanted their child to go (1 = less than high school graduation; 2 = high school graduation or GED [General Educational Development] only; 3 = attend or complete 2-year school course in a community or vocational school; 4 = attend college, but not complete a 4-year degree; 5 = graduate from college; 6 = obtain master’s degree or equivalent; 7 = obtain PhD, MD, or other advanced degree). Parental expectations were assessed by a single item asking how far in school the parent expected their child to go, using the same Likert-type scale (1 to 7).

Math achievement scores were assessed again in a 2-year follow-up in 2004 (N = 12,801; 50.6% female), and this variable was used as the dependent variable. We also selected several control variables from the data set prior to the data analysis, including gender (male = 0, female = 1), school regions (two dummy variables: not urban = 0, urban = 1; and not rural = 0, rural = 1), school type (private = 0, public = 1), and family SES (constructed from information about mother’s and father’s education, mother’s and father’s occupation, and family income; M = −0.27, SD = 1.52).

Results. As the data included only two time points and parental reports were obtained only at the baseline assessment, we conducted a simple lagged regression analysis. The full information maximum likelihood method was used to deal with missing data. Specifically, we examined parental aspiration (or overaspiration) as a predictor of mathematical achievement scores in the follow-up while controlling for mathematical achievement scores at the baseline. We included all of the control variables to address possible confounding effects.

The results are summarized in Table 4. In the parental aspiration regression analysis, gender, school region, school type, and family SES significantly predicted mathematics achievement at follow-up (ps < .05). Not surprisingly, baseline mathematics achievement also strongly predicted mathematics achievement, indicating the (interindividual) stability of math achievement scores over time (B = 0.86, p < .01). Importantly, parental aspiration positively predicted the follow-up mathematical achievement scores above and beyond the effects of the control variables (B = 0.30, p < .01), suggesting that parental aspiration had positive effects on change in children’s mathematics achievement. These results replicate our findings on positive aspiration effects from the PALMA data.

Importantly, when we repeated the analysis by replacing parental aspiration with parental overaspiration (computed in the same manner as in the main study), this parental overaspiration model showed that parental overaspiration negatively predicted children’s mathematical achievement scores at follow-up, and beyond the effects of the control variables (B = −0.26, p < .01). These results replicate the main results on the negative effects of overaspiration based on the PALMA data, demonstrating the robustness and cross-cultural generalizability of our findings.

Discussion

Previous research has repeatedly found a positive link between parental aspiration and children’s attainment (Fan & Chen, 2001; Jeynes, 2007). The current research advanced these findings by investigating the issues that have not been sufficiently considered.
in the existing literature: the causal ordering of aspiration and achievement and potential adverse effects of parental overaspiration. Using large, intergenerational samples from Germany and the United States, multiwave study designs, and dual-change score modeling, we obtained support for the proposed reciprocal temporal ordering between parental aspiration and children’s academic mathematical performance in a methodologically rigorous manner. More importantly, the findings also showed that parental aspiration can be detrimental for children’s performance when aspiration exceeds expectation. These effects were robust across different types of analyses and after controlling for a variety of demographic and cognitive variables, including children’s gender, age, intelligence, school type, and family SES. Use of dual-change score modeling allowed us to eliminate possible confounds inherent in standard cross-lagged analysis (see Hamaker et al., 2015). It is also worth noting that our work examined intergenerational relations between parental reports and children’s actual academic achievement—this design feature enabled us to control for any systematic method or response bias, which typically substantially inflates estimated effects (Podsakoff, MacKenzie, Lee, & Podsakoff, 2003).

Effects of Aspiration: Theoretical and Practical Implications

Aspiration has been one of the key constructs over the past half century to understand how parents influence their children’s academic attainment. In the 1960s, the importance of educational aspirations was highlighted by the influential Wisconsin model proposed by Sewell et al. (1969; see also Sewell & Shah, 1968). This model posited aspiration to be a crucial intervening variable that can explain intergenerational educational and occupational mobility (Blau & Duncan, 1967), thus adding perspectives on “soft” psychological factors to the “hard” structural relationship between SES and educational attainment. Sewell and colleagues indeed demonstrated that a substantial portion of the effects of SES and ability on occupational attainment is mediated by aspiration—the inclusion of aspiration considerably increased the explanatory power of the model.

Relatively independent from this line of research in sociology, the emergence of social–cognitive models in psychology also shed light on the important role of parental aspiration (or expectation) for children’s academic achievement and behavior (e.g., Bandura et al., 1996; Parsons et al., 1982). Parental aspiration or expectation was deemed to be a critical construct because research on achievement motivation had demonstrated the critical role of expectancy beliefs in motivating human behavior (Atkinson, 1957; Bandura, 1977; Marsh & Parker, 1984; Pekrun, 1993; Rotter, 1966). In addition, research has shown that expectancy beliefs are sensitive to environmental cues, even in educational contexts (see Destin & Oyserman, 2009), suggesting the suitability of these constructs for designing educational interventions to improve children’s performance. Given these long-standing research traditions in both psychology and sociology, it is rather surprising that the possible double-edged consequences of parental aspiration have not been scrutinized in empirical work. Our research represents a pioneering first step to investigate this possibility, thus opening a new avenue of research on this traditional topic.

Our research implies that it is essential to distinguish between “parental aspiration” and “parental expectation” to empirically understand the effects of parents’ beliefs on their children. The importance of distinguishing parental aspiration from expectation has been discussed in the sociological literature but was not sufficiently attended to in psychology (Yamamoto & Holloway, 2010). One potentially interesting direction for future research would be to examine unique correlates that are specific to parental aspiration versus expectation (other than academic achievement), which could further clarify the specific roles of these constructs in children’s socialization. Such studies could further reinforce the importance of clearly distinguishing between parental aspiration and expectation in empirical work. In that respect, it was intriguing that we found a negative effect of parental aspiration on math achievement after partialing out the variance explained by parental expectation (i.e., analysis with residual scores). This observation suggests that it may be the effects of the parental expectation component of parental aspiration, not parental aspiration per se, that drove the positive effects of parental aspiration observed in previous studies.

On a practical front, the current study findings highlight the danger of simply raising parental aspirations to promote children’s academic achievement and behavioral adjustment. Much of the previous literature in psychology conveyed a simple, straightforward message to parents who want to enhance their children’s academic performance—aim high for your children, and your aim will come true. In fact, aspiration has often been a main target for educational intervention programs. For example, during 2008, the U.K. government identified aspiration as a policy focus to improve students’ engagement and academic achievement, and this initiative encouraged a number of educational intervention programs that aimed to enhance parental (and children’s) aspiration (Lupton & Kintrea, 2011). Echoing this initiative, Cummings et al. (2012) conducted a literature review to evaluate the effectiveness of intervention programs that focused on attitudes (including educational aspiration) and academic attainment. This review, however, concluded that there was little evidence suggesting that the impact of intervention on academic achievement was mediated by changes in academic aspiration (although the authors were actually able to find few relevant studies in the review). The review also argued that the focus of interventions should not be on changing aspirations of parents and children per se—rather, it recommended focusing on facilitating opportunities and information for parents and children to develop realistic expectations. This recommendation is in line with the nuanced relationship between academic aspiration and achievement revealed in our study—unrealistically high aspiration may hinder academic performance; therefore, simply raising aspiration cannot be an effective solution to improve success in education.

Reciprocal Effects and Differences Between Groups

In addition to the findings on the effects of parents’ aspirations, our results provided several interesting observations. First, we found reciprocal effects of children’s academic achievement on their parents’ aspiration (or overaspiration). Briley et al. (2014) called for research examining the positive reciprocal relationship between parental expectation and academic achievement, and provided evidence in support of this hypothesis, which highlights the
dynamic roles of both parents and children in socialization processes (Bell, 1968; Jacobs & Eccles, 2000). The current study not only replicated these findings but also uncovered a negative reciprocal relationship between parental overaspiration and children’s achievement. Such a “vicious cycle” of reciprocal negative effects linking overaspiration and achievement may accumulate over years, possibly producing prolonged inimical consequences. As the negative effect of children’s academic achievement on parental overaspiration seems somewhat weaker than the negative effect of parental overaspiration (i.e., effects of achievement on aspiration were not statistically significant in some of the analyses), further research is needed to examine the robustness and psychological mechanisms of these reverse effects.

Second, the effects of parental aspiration and overaspiration were even stronger for children in higher-track schools compared with those in intermediate- or lower-track schools. This finding may reflect a more competitive atmosphere in higher-track schools—in these schools, parental aspiration may be helpful to some extent, but parental overaspiration could easily turn into excessive pressure to achieve (see Murayama & Elliot, 2012, for the double-edged effects of competitive climate). This observation is also consistent with the idea in educational sociology that the effects of parental involvement on children’s behavior would be magnified, whether positive or negative, for upper-middle-class families (Lareau, 1987; McNeal, 1999). This is partly because lower class families do not have enough resources to effectively translate their parental involvement (i.e., social capitals) into educational outcomes. It should be noted, however, that we did not find significant differences between low-SES and high-SES groups, despite the differences between school tracks. Thus, these explanations require further scrutiny in future research. Nevertheless, our findings suggest the importance of taking into account people’s demographic background information while investigating the relationship between parental aspiration and children’s outcomes.

Finally, our results were replicated with another large-sample longitudinal data set. These two data sets were different in several respects, suggesting generalizability of our findings. Most importantly, the two data sets differed in sociocultural context (Germany vs. the United States). Research has shown considerable cultural differences in parenting styles (Keller & Greenfield, 2000), but our findings suggest that the relations between parental aspiration (or overaspiration) and children’s academic achievement are consistent across different cultural contexts. Furthermore, the two data sets are based on different items to assess parental aspiration and expectations. Our main data set (PALMA) asked for parental aspiration and expectations in terms of children’s numeric grades (“We want our daughter/our son to get the following grade in mathematics”; “We believe that our daughter/our son can get the following grade in mathematics”). The replication data set (ELS: 2002) assessed the same constructs more broadly using an extended time frame—that is, aspirations and expectations were assessed in relation to children’s long-term educational career (i.e., how far in school do parents want their child to go, how far in school do parents expect their child will go). The fact that we observed similar results for these two types of variables may indicate that our findings are not dependent on the wording of items or the time scope of parental aspiration and expectations.

Conclusion

In summary, the present research revealed both positive and negative aspects of parents’ aspiration for their children’s academic performance. Although parental aspiration is an important vehicle through which children’s academic potential can be realized, excessive parental aspiration can be poisonous. A possible next step would be to examine the mechanisms underlying this detrimental effect. Excessive parental control (Grolnick, 2003) or parental overinvolvement (Hudson & Dodd, 2012) could be factors that may mediate the negative relation between parental overaspiration and children’s achievement. On the children’s side, decreased self-efficacy (Chorpita & Barlow, 1998) and negative achievement emotions, such as achievement anxiety (Pekrun, 2006) or frustration (Higgins, 1987), may contribute to the negative effects resulting from parental overaspiration and control. Parent–child conflict (see Fuligni & Eccles, 1993) may also be an important intergenerational factor driving the effect. Developing theoretical models and pursuing empirical research that incorporates these factors would provide a more fine-grained picture and could open a new avenue for research on the relevance of parental aspirations for children’s academic achievement and their personality development more broadly.

References


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