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Understanding the Influence of Family Background on Professional Achievements: The Career Performance of Academics

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Abstract: This study explores various factors influencing the career performance of university professors in China and the United States, utilizing rank, income, and the number of published journal articles as performance measures. Despite the widely acknowledged role of family background in an individual's educational and professional pursuits, our findings reveal that it fails to statistically predict the career performance of university professors. In certain instances, it even negatively affects faculty career performance. This pattern is evident in both China and the United States. Thus, despite the social, economic, political, and ideological disparities between the two nations, their remarkable similarity in the absence of a correlation between family background and career performance among academics is noteworthy.

Introduction

This study explores various factors influencing the career performance American and Chinese professors, aiming to elucidate the relative roles of ascribed status versus personal achievements. Consequently, it aims to contribute to the ongoing debate on the role of education in fostering social mobility and promoting equality. Despite extensive research on the influence of parental education on the likelihood of pursuing higher education (Bourdieu, 2018; Coleman, 1988). the relative roles of ascribed characteristics versus academic accomplishments beyond the undergraduate level remain largely unknown. Indeed, to date, the two most important research frameworks on education and stratification (i.e., the status attainment model, first proposed by Peter Blau and Otis Duncan, and the social reproduction models, pioneered by Karl Marx and further developed by Pierre Bourdieu) predominantly focus undergraduate education, largely ignoring graduate education. Previous studies suggest a diminishing influence of social origins on educational attainment as individuals advance through their academic journeys. Moreover, among the few studies focusing on graduate education, some older ones indicate that as

individuals ascend higher within the educational system, they tend to distance themselves from their social roots and move closer to the meritocratic ideal (Mare, 1980; Stolzenberg, 1994). More recently, however, Mullen et al. (2003) observed that family background significantly influences an individual's pursuit of graduate education. Similarly, Wakeling and Laurison (2017) discovered the growing influence of social origins on occupational outcomes, even among individuals with postgraduate degrees.

Thus, in addition to influencing an individual's educational achievements, family background also impacts their occupational choices. Whiston and Keller (2004) conducted a comprehensive review on the influence of family factors on occupational attainment. revealing that family background is an important factor influencing career decisions and outcomes; however, a severe drawback of this research is the lack of a clear theoretical framework explaining how families can positively or negatively affect career development. Notably, the existing literature also lacks information on whether parental education impacts an individual's career performance. Generally, occupational attainment involves not only successfully entering an occupation but also outperforming one's peers. In this context, levels of control,

not more important.

because the profession has educational requirements but relatively low higher education sector. entry barriers for individuals lacking social This backgrounds on graduate education.

prestige, income, and authority form important Using a large dataset, this study investigates aspects of an individual's occupation various factors (including family background) (Kerckhoff et al., 1982). In other words, if that influence the career performance of having well-educated parents positively faculty members in terms of research outputs, affects educational attainment and if parental salaries, and professional ranks. In particular, influence is pivotal in occupational selection, we adopt a case study of quantitative survey does parental education also contribute toward data collected from a relatively traditional and an individual's professional success? This is an closed society (China) and a modern or open important question because the parental society (the United States (U.S.)) to compare investments made throughout a child's the two cases. We adopt this research strategy upbringing, as well as the benefits of good because "the distinguishing characteristic of parenting, are intended to help position the the case study is that it suits the examination child for success in life, which for many of a contemporary phenomenon in its real-life includes a prosperous career. Consequently, context when the boundaries of the one's occupational attainment is arguably as phenomenon and context are not clearly important as one's educational attainment, if evident" (Yin, 1981, p.59). Moreover, our choice of confining this study to China and the While education holds significance in most U.S. is primarily motivated by their respective occupations, academic institutions offer a positions as global leaders: the U.S. holds the prime vantage point to observe the relative status of the current world power, while China significance of educational attainment versus is often perceived as its potential challenger. social roots in shaping individuals' career Notably, the U.S. boasts the highest number of outcomes. If education can truly empower prestigious universities worldwide and has a individuals to achieve their desired careers and reputable and well-established education lifestyles regardless of their social origins, system, whereas China is known for its recent evidence for this should be apparent in the economic growth and rapid development and career performance of professors. We investment in mass higher education. Hence, deliberately focus on professors in this study these key countries are expected to wield stringent substantial influence in the international

study makes the following capital¹. We leverage the fact that nearly all contributions: To the best of our knowledge, professors² hold graduate degrees and spend this study is a pioneering attempt to examine considerable amounts of time in post- the correlation between family background secondary institutions. In some ways, the and career performance among professors academic profession can be viewed as an using quantitative data collected from the U.S. extension of a terminal degree, wherein one and China. Enhancing our understanding of pursues lifelong learning. By investigating the this profession is particularly important experiences of professors, we not only shed because it is an example of a broadening light on their career performance but also creative class. Given the requisite educational contribute valuable insights to the literature credentials for entry into academia, we also focusing on the influence of family contribute to the debate on whether one's family background affects their likelihood of

¹ Some other prestigious occupations such as medicine and law also require terminal degrees. However, the financial costs of these professional degrees are considerably higher, while Ph.D. students are typically granted financial assistance through scholarships and part-time employment with the

² According to the Oxford Dictionary, the term professor refers to a teacher of the highest rank in a university.

of this study is to elucidate the factors and other factors are some examples of the contributing to the career success of professors, channels and mechanisms explored by related while also enriching the debate on whether studies. education can mitigate the disparities rooted in social backgrounds, allowing individuals to impact of family background and parental attain career success. The remainder of this education on a child's educational attainment paper is structured as follows: Section 2 (Eccles, 2005; Sharif et al., 2016). Moreover, provides an overview of relevant literature. this literature presents consistent evidence Section 3 describes the data and empirical supporting the link between parental education methods employed. Section 4 presents the and children's long-term educational and results and discussions, and Section 5 provides occupational outcomes in adulthood⁴ (Behtoui concluding remarks.

Literature Review

Importance of Family Background

The social cognitive theory (Bandura, 2001) posits that individuals learn by observing others. and personal development is influenced by behaviors, cognition, and the environment. Given that children's environments are largely shaped by their parents, their life outcomes can naturally be traced back to their parents. The impact of parental socioeconomic status on children is particularly evident in the dynamics between parents and their young offspring. For instance, previous research on family process models reveals that higher levels of parental education and earnings positively influence the academic performance and behavior of school-aged children. In reality, the strong association between maternal education and children's outcomes is among the most well-established developmental psychology of (Reardon, 2011; Sirin, 2005). ³ Sociologists economists also analyze the intergenerational transfer of education from various perspectives. Parental expectations (Stull, 2013; Trusty, 1998), genetics, human years who have completed graduate degrees

pursuing graduate education. The overall aim capital, social capital (Blau & Duncan, 1967),

Previous literature has firmly established the & Neergaard, 2012; Dubow et al., 2009; Erola et al., 2016; Haveman & Wolfe, 1995; Klebanov et al., 1994;). The proverbial saying "the apple doesn't fall far from the tree" certainly reflects the notion that a father's occupational status highly correlates with their children's occupations (Blau & Duncan, 1967; Raitano & Vona, 2018). According to the human capital theory, parental characteristics play a crucial role in the development of various skills valued in the labor market (Becker & Tomes, 1979). Even among children with the same level of education, higher parental income is linked with better occupational achievements (Shareef et al., 2017). While the link between parental characteristics and their children's eventual occupational attainment is documented, the underlying mechanisms and foundation are still theoretical understood (Whiston & Keller, However, recently, Liu et al. (2020) theorized how parents, through social influence, intervene in the careers of young adult children.

Graduate Education and Social Transition

According to the Urban Institute, the proportion of adults in the U.S. aged over 24

³ Similarly, Morales (2019) has documented an intergenerational transmission of unemployment outcomes, particularly from mothers to their children.

⁴ From a resource perspective, students with parents who can offer financial support are better able to "further invest" in their human capital in graduate school. Next, students from well-educated families often have high levels of self and parental expectations about their educational attainment. Moreover, family background also influences children's academic performance or their choice of major in college. Finally, family background affects an individual's work values and can compel them to choose careers that conform to these preferred values.

logically corresponds with deemed essential for capital is expected to increase.

existing social structures (Bourdieu, 1990). determining occupational outcomes For instance, McGuigan et al. (2016) individuals with postgraduate degrees. discovered that young individuals often struggle to recognize the benefits of education and that family background can help provide crucial insights in this regard. Similarly, Ordine and Rose (2009) observed that an individual's socioeconomic background can help them avoid overeducation and its related traps. Within occupational status attainment models (Blau and Duncan, 1967), ascribed status refers to the utilization of kinship for networking purposes. Compared to traditional society, modern society (as opposed to traditional society) places greater emphasis on achieved status,⁵ consequently diminishing the influence of parental status.

In contrast to the extensive literature focusing on undergraduate education, the literature focusing on graduate education is significantly limited. In the latter type, an individual's educational "career" is typically characterized as a sequence of transitions from one level to the next, wherein individuals must decide whether to continue or halt their progression. In this framework, the differential social selection process posits that at each transition point, a smaller proportion of students from lower-class backgrounds will

increased from 8% in 1995 to 10% in 2005 and persist compared to those from higher-class to 12% in 2015; moreover, the number of backgrounds. After progressing through a individuals with bachelor's degrees increased series of transition points, the students from by 34-37% (Baum & Steele, 2017). This lower-class backgrounds will increasingly growth in graduate education attainment resemble their higher-class counterparts in higher terms of motivation and ability (for more occupational attainment, as higher education is information, see Shavit and Blossfeld, 1993). career Thus, as individuals advance through the advancement and high achievements (Van de educational system, they become further Werfhorst, 2002). With the expansion of the detached from their social roots and approach knowledge-based economy and the increasing the meritocratic ideal (Mare, 1980). However, saturation of undergraduate education, the more recently, Mullen et al. (2003) discovered demand for higher education and human that family background positively affects an individual's pursuit of graduate education, Despite the increased accessibility of higher particularly at the doctoral level. Additionally, education, the modern education system has Wakeling and Laurison (2017) reported been criticized for its role in perpetuating that social origin is gaining importance in

Graduate Education and the Creative Class

Amid increasing inequalities, some scholars believe that the rise of a creative class is the foundation of sustainable societal development (Florida, 2012: p. vii). This creative class involves individuals who use creativity as the main element in their jobs. Initially associated with artists and writers, the scope of this term has now expanded to include programmers, data scientists, designers, and information workers. In an era where traditional skills can be outsourced or automated, creative skills are in high demand and carry significant value. If we think of universities as cradle institutions for this creative class, then as a profession, professors exert the strongest influence on the cultivation of this rising class. This is particularly true for students hailing from lower socioeconomic backgrounds. Moreover, professors play influential roles, as university students are typically young and can benefit from guidance on important decisions with life-long consequences. Finally, professors the themselves also belong to this creative class, adding to their influence and relevance.

⁵ The boundary between ascribed and achieved statuses is often unclear. For instance, a daughter of an artist becoming an artist can be a mixed function of ascribed and achieved statuses.

Careers of Professoriates

academia, the quality and quantity of peer- allowing social mobility. reviewed journal publications are universally accepted standards for assessing career performance (Boyer et al., 1994). Generally, every research article must undergo a blind peer-review process, wherein the primary determinant of acceptance is merit. This objectivity and the high educational requirements are key features of this profession. Unfortunately, our dataset only provides information on the quantity of peerreviewed articles. However, it is worth noting that the rank variable should reflect the quality of the publications, at least to some extent.

The increasing demand for post-secondary education has not only expanded the academic workforce but also its ability to influence society, thus fueling our curiosity about the career performance of professors. Interestingly, while academics are known to delve into a plethora of subjects, the literature focusing on academics is extremely limited. Some studies have linked the research performance of professors to industry funding as public funding declines, which is a trend that carries advantageous both and detrimental implications (Gulbrandsen et al., 2005). Dowd and Kaplan (2005) studied the impact of the tenure system on the careers of academics. Barney et al. (2022) examined the resources contributing the most to research productivity given a particular teaching load in the U.S.

Our study primarily enhances the existing literature focusing professors on understanding the factors influencing their career performance. Consequently, we also contribute insights to the literature exploring

the influence of family background on Because professors are experts in their fields educational attainment and career outcomes. and hold the highest teaching positions, the Finally, our findings enrich the literature requisite educational credentials for their focusing on the purpose and goal of graduate careers are terminal degrees, often PhDs. In education in offering equal opportunities and

Data and Empirics

This study used data from the "Changing Academic Profession: An International Research Project" (CAP, 2004–2009), 6 which is the second of two major international studies investigating the academic profession. The initial study, titled "The international academic profession: Portraits of 14 countries," involved a survey conducted between 1991 and 1993 (Altbach and Lewis, 1996). The primary purpose of this project was to examine the attitudes and values of academic professionals toward teaching, research, and service. The second survey was completed between 2004 and 2009 and included 19 participating countries. 7 Its main goal was to compare academic professionals internationally; however, special emphasis was placed on discerning the changes in the academic profession. Notably, the decade between these investigations witnessed two profound changes in global economic development. China, which had not been included in the first survey, participated in the second survey owing to its economic rise and rapid advancement in mass higher education. The survey provided a unique opportunity for international scholars to explore several challenging questions, including inequality and differences in the academic profession across different countries, research subjects, teaching areas, service areas, workloads, income levels, and extents of participation in decision-making processes.

⁶ This is the most up-to-date survey dataset. While we acknowledge that a period of almost two decades (the age of the survey) does not imply a short duration in the world of work, considering the nature of our research questions (the lifespan of a professor and the duration of their upbringing and career), the findings still provide relevant insights. For more information, refer to Teichler et al. (2013).

⁷ The 19 countries and areas are the United States, Canada, Mexico, Brazil, Argentina, Britain, Germany, Italy, Holland, Sweden, Finland, Portugal, Australia, South Africa, P.R. China, Korea, Japan, Malaysia, and Hong Kong.

The CAP project is among the few widely profession's cited surveys offering a unique understanding educational global academy. Examples of such issues individuals who are the first in their families to relationship with the attainment of national examined goals; research; workload; salary; and level of academics with humble beginnings. involvement in decision making. The Our study focuses on the U.S. and China of academics such as their gender, age, and contrasting characteristics but similar highereducation background. parental participating countries used the same survey their four-year undergraduate programs. This questions, and the data were collected from shared et al., 2013). Our study focuses exclusively on largest developing country, the U.S. is the most professors and 3,142 Chinese professors.

specific questions:

does family background questions is that the significance of family research questions. background (or the lack thereof) would allow
The regressions include the following three professors. graduate education, occupational destination. The faculty members the educational qualifications of

requirements advanced qualifications and scholarly of numerous issues encountered within the productivity. According to Stuart (2012), include the evolving nature of academic work; pursue higher education often move away inequalities and differences among countries, from their families, usually to poor disciplines, and types of higher educational communities, to study and then work in institutions; institutional development and its academia. Similarly, Nelson et al. (2006) the experiences of several

questionnaire also covered the demographics because they are both global powers with All educational structures, particularly in terms of framework facilitates institutions granting degrees over four years or straightforward and meaningful comparisons more. In total, each country contributed data of country-specific results, making it a from 800 or more institutions, and an desirable option for our research. The first international methodology team verified the dimension distinguishing these nations is their coding and variables (for details, see Teichler economic standing. While China stands as the full-time faculty members as part-time economically developed country globally. academics typically exhibit distinct patterns of Another significant disparity between the academic engagement compared to their full- nations lies in their cultural attitudes, time counterparts (Kinman & Jones 2008). particularly those regarding education. While Our final sample consists of 968 American the Western culture tends to perceive higher education as a means to an end, the Chinese In exploring the factors driving the career culture views it as being intrinsically valuable. performance of professors, we particularly For example, British-Chinese students and focus on the role of family background, which their parents highly value education, is captured using the maternal and paternal irrespective of social class and gender (Francis education variables. We break down our & Archer, 2005). Finally, owing to the primary question into the following four immense economic standing of these nations, they are viewed as existing and aspiring 1. What percentage of faculty members come superpowers with conflicting ideologies. from middle or lower-class families? 2. How Regardless of the future, both countries will influence continue to play pivotal roles in shaping global professional rank? 3. How does family affairs. Moreover, including all 19 countries in background influence income? 4. How does the study would unnecessarily complicate family background influence the number of matters when these two countries offer a large academic publications? The rationale for these enough sample to adequately address our

us to contribute to the existing literature dependent variables: rank, income, and the focusing on the career performance of number of peer-reviewed publications. and Conversely, the independent variables include of higher educational institutions hold a respondent's father and mother (Model 1); the special place in society owing to the respondent's gender and age (Model 2); and

regression equations are as follows:

Model 1:

 $Rank/Income/Publications = \beta_0 +$ β_1 Father Educ + β_2 Mother Educ + ε

Model 2:

 $Rank/Income/Publications = \beta_0 +$ β_1 Father Educ + β_2 Mother Educ + $\beta_3 Male + \beta_4 Age + \varepsilon$

Model 3:

 $Rank/Income/Publications = \beta_0 +$ β_1 FatherEduc + β_2 MotherEduc + $\beta_3 Male + \beta_4 Age + \beta_5 Doctor +$

 β_6 Sciences + β_7 Teaching + β_8 Research + β_9 Admin + β_{10} Other + ε

Findings

Our findings regarding the four research questions are summarized below:

1. What percentage of faculty members come from middle or lower-class families?

Appendix 1 provides information on the parental educational qualifications of faculty members in China and the U.S. In China, 12.6% of the professors had fathers and 21.4% had mothers who did not receive any formal education, whereas 73.1% of fathers and 85.8% of mothers did not receive postsecondary education. In America, 3.2% of the professors had fathers and 3.3% had mothers who did not receive any form of formal education, and 46.0% of fathers and 51.2% of mothers did not receive post-secondary education. The data reveal that 71.6% of professors in China (total n = 3,379) have both parents with no post-secondary education, and the corresponding figure in the U.S. is 37.1% (total n = 1,088). The substantial difference of 34.5% points between the two countries underscores historical factors, including the

the respondent's degree, discipline, and time lower educational qualifications of Chinese allocated to teaching, research, service, parents in the past. The parental educational administrative tasks, and other academic backgrounds in both countries reveal that a activities (Model 3). These models are significant proportion of faculty members replicated for each of the three performance come from middle- or lower-class families. measures, individually for each country. The This implies that despite the lack of parental education, these individuals earned high educational qualifications and successfully began a career in academia.

To address the remaining questions, we initially assessed the correlations between our parental education variables and career performance indicators (Appendix 2). A few notable results are highlighted here. First, as anticipated, the three performance metrics exhibit positive correlations with each other. Second, strong correlations are observed among the parental educational qualification variables (China r = .75 and the U.S. r = .63). Finally. in both countries. all three performance indicators display some level of correlation with either the maternal or paternal education variable; however, in each case, the correlation is negative. This indicates that higher parental educational qualifications translate to poor professional performance of the professors. This discovery of a negative or insignificant relationship between family background and faculty career performance is unexpected, considering the acknowledged significance of family background.

2. How does family background influence professional rank?

To answer this question, we developed four multiple linear regression models to further investigate the influence of family background on faculty career performance by focusing on their professional ranking. Table 1 regresses rank on family background. In Model 1, the coefficients of determination (R²) for China and the U.S. are .016 and .007, respectively. Moreover, F = 28.6, p < .01 for China and F =3.48, p < .05 for the U.S. Thus, the null hypothesis indicating that parental education has no impact on an individual's professional rank is rejected for both countries, and all significant variables have negative values. The regression coefficients of individual variables, that is, the maternal education in China (β_2 = -.10, p < .01) and the paternal education in

better-educated fathers in the U.S. hold the research education in the U.S. ($\beta_2 = .00$, p > .05) do not administrators in the U.S., wherein established significantly influence rank. Unfortunately, administrative track records and leadership paternal qualifications. Nevertheless, the finding that does not impact faculty career performance. family background has no significance or even 3. How does family background influence a negative impact on faculty performance income? aligns with the fact that a considerable demonstrate origins performance.

Chinese professors, while it has no discernible 2, Model 3 increases the explanatory power by

America ($\beta_1 = -.12$, p < .05), have significant effect on those of U.S. professors. One negative impacts. This suggests that professors possible explanation for this is that the Chinese with better-educated mothers in China and system rewards excellence in teaching and assigning bv lowest ranks. However, paternal education in responsibilities to faculty members. This is in China ($\beta_1 = -.04$, p > .05) and maternal stark contrast to the selection criteria of the strength of the model is limited as it fails skills are top considerations. In summary, even to adequately explain the differences between when personal agency variables are considered educational as controls in Model 3, family background still

To answer this question, we conduct a proportion of professors in both countries regression analysis of income against family social-class limitations. This background and report our findings in Table 2. observation is consistent with the findings of Our regression results for Model 1 reveal R² Stuart (2012) and Nelson et al. (2006), who values of 0.002 and 0.001 for China and the reported that family background does not U.S., respectively. Moreover, in this model, F influence faculty career performance. While = 3.07, p < 0.05 for China and F = 0.41, p > not all faculty members come from lower 0.05 for the U.S., suggesting the model's socioeconomic backgrounds, those with such validity only for China. In the U.S., parental superior education has no influence, whereas in China, it exhibits a weak negative influence. Notably, Model 2 introduces gender and age as control every independent variable is insignificant, variables. In this model, the values of R² for and family background has no impact on China and the U.S. are .506 and .105, income. Model 2 introduces gender and age as respectively. Notably, Model 2 explains 49% control variables. In this model, we observe (China) and 9.8% (U.S.) of variances, that the values of R² are 0.164 and 0.029 for representing an improvement in explanatory China and the U.S., respectively. Compared power. However, in Model 2, the significance with Model 1, Model 2 increases the of our family background variables diminishes. explanatory power by 16.2% points for China Further, in Model 3, which is our and 2.8% points for the U.S. Note that the comprehensive model, the values of R² for increase in explanatory power for China is China and the U.S. are .592 and .212, much larger than that for the U.S. Model 2 respectively. Evidently, compared with Model reveals that F = 168.23, p < 0.01 for China and 2, Model 3 increases the explanatory power by F = 7.23, p < 0.01 for the U.S. Our results 8.6% points for China and 10.7% points for the reveal that the income levels of professors are U.S. Model 3 reveals that personal effort holds significantly influenced by their personal greater significance in the U.S. than in China. background, gender, and age. Male professors In Model 3, adding variables such as time earn more than their female counterparts in allocated to teaching, service, and other both countries. However, family background academic affairs exerts no impact on rank and remains insignificant even with the inclusion promotion in both countries. Only the of gender and age as controls in Model 2. Next, variables "Doctoral degree," "Sciences," and in Model 3, personal achievement variables "Research" have an impact on rank, are introduced as controls. Consequently, we Interestingly, dedicating time to administrative observe R² values of 0.227 and 0.038 for China duties significantly influences the careers of and the U.S., respectively. Compared to Model 6.3% points for China and 0.9% points for the significantly 3, F = 91.12, p < 0.01 for China and F = 3.49 institutions. of U.S. professors, they significantly influence academic those of Chinese professors. The variables excellent impact on faculty income in both countries; additional research. administrative and

impact faculty income. U.S., demonstrating that the influence of Interestingly, the amount of time spent on personal achievement variables is more teaching negatively affects income, suggesting important in China than in the U.S. In Model that research is preferred over teaching in most Moreover, participating in p < 0.01 for America. Interestingly, while none administrative tasks has a positive impact on of the included variables impact the incomes faculty income in China as the country has an system wherein academically individuals are promoted to such as field of study and time allocated to administrative roles; however, this is not true service and other academic affairs have no in the U.S. Even with the inclusion of controls for individual however, variables such as possessing a achievements in Model 3, family background doctoral degree and engaging in teaching tasks, continues to hold no explanatory power over duties faculty income.

> Table 1 Predictors of Professor Academic Rank

	Model 1		Model 2		Model 3				
	β		β		β		95%	% CI	
Variable	China	USA	China USA		China	USA	China	USA	
Constant	2.66**	3.05**	-0.82**	0.85**	-0.88**	0.3	[-1.02, - 0.75]	[-0.25, 0.86]	
Paternal education	-0.04	-0.12*	-0.02	-0.04	-0.02	-0.02	[-0.05, 0.01]	[-0.13, 0.08]	
Maternal education	-0.10**	0	-0.02	0.04	-0.01	0.01	[-0.05, 0.02]	[-0.10, 0.11]	
Male dummy			0.09**	0.24**	-0.01	0.15*	[-0.06, 0.03]	[0.02, 0.28]	
Age in 2008			0.09**	0.03**	0.08**	0.03**	[0.08, 0.08]	[0.02, 0.03]	
Doctoral degree					0.60**	0.80**	[0.55, 0.65]	[0.63, 0.96]	
Field of sciences					0.12**	0.17*	[0.08, 0.16]	[0.04, 0.30]	
Teaching hours					0	0	[0.00, 0.00]	[-0.01, 0.00]	
Research hours					0.00**	0.01*	[0.00, 0.01]	[0.00, 0.01]	
Service hours					0	0.01	[-0.01, 0.00]	[0.00, 0.02]	
Admin hours					0.00**	0	[0.00, 0.01]	[0.00, 0.01]	
Other academic hours					0	0	[-0.01, 0.00]	[0.01,0.02]	
R^2	0.016	0.007	0.506	0.105	0.592	0.212			
F	28.63**	3.48*	879.5**	29.04**	450.9**	24.0**			
N	3,142	968	3,142	968	3,142	968			

Table 2 Predictors of Professor Income

	Mod	del 1		odel 2	el 2 Model 3					
	ſ	3	β			β	95% CI			
Variable	China	USA	China	USA	China	USA	China	USA		
Constant	6376.15**	128,899**	-647.14*	-65.89	-688.11*	-3135.93	[- 1329.69, - 46.53]	[- 74607.36, 68335.50]		
Paternal education	26.07	-6022.97	91.16	-1209	100.38	-1474.67	[-57.90, 258.66]	[- 15011.41, 12062.08]		
Maternal education	-174.5	2524.64	40.87	4925.02	33.37	4840.72	[-128.65, 195.39]	[- 8800.85, 18482.30]		
Male dummy			842.90**	24651.4**	532.00**	21188.72*	[311.68, 752.32]	[3830.10, 38547.34]		
Age in 2008			157.11**	1701.67**	147.98**	1630.76**	[135.06, 160.90]	[828.16, 2433.36]		
Doctoral degree					1739.38**	10704.66	[1487.64, 991.13]	[- 10502.33, 31911.66]		
Field of sciences					-193.4	15663.03	[-401.31, 14.52]	[-1407.44, 32733.50]		
Teaching hours					-9.58*	-504.92	[-17.84, - 1.33]	[- 1276.74, 266.89]		
Research hours					19.23**	231.82	[9.82, 28.63]	[-654.05, 1117.68]		
Service hours					17.36	-132.72	[-5.74, 40.46]	[- 1765.34, 1499.90]		
Admin hours					15.74*	191.19	[2.83, 28.65]	[-921.21, 1303.58]		
Other hours					30.04	664.51	[-0.45, 60.54]	[-1439.38, 2768.40]		
R^2	0.002	0.001	0.164	0.029	0.227	0.038				
F	3.07*	0.41	168.23**	7.23**	91.12**	3.49**				
N	3,142	968	3,142	968	3,142	968				

number of publications produced?

articles published.

4. How does family background influence the remaining variables appear to be significant in the U.S.

To address this question, we examined the We observe that both gender and age relationship between family background and significantly impact the number of The publications. Model 2 obtained R² values of corresponding results are summarized in Table 0.027 and 0.005 for China and the U.S., 3. Model 1 obtained R² values of 0.007 and respectively. Compared to Model 1, Model 2 0.000 for China and the U.S., respectively, increases the explanatory power by 2.0% Furthermore, F = 10.78, p < 0.05 for China and points for China and 0.5% points for the U.S. F = 0.03, p > 0.05 for the U.S. In the U.S., Moreover, according to Model 2, F = 23.91, p parental education exerted no significant < 0.01 for China and F = 1.21, p > 0.05 for the influence on the number of publications; U.S., demonstrating its validity for China. however, in China, it exhibited a weak Thus, in China, the genders and ages of negative influence on the same. Specifically, professors significantly influence the number only maternal education demonstrates a of publications; however, this is not true in the negative correlation with the number of U.S. While male professors enjoy publication published articles in China, while none of the advantages over female professors in China,

such advantages are not evident in the U.S. Most importantly, even after the inclusion of gender and age as controls in Model 2, the insignificance of family background persists. Next, Model 3 includes personal achievement variables as controls. Accordingly, it obtains R² values of 0.088 and 0.113 for China and the U.S., respectively. Compared to Model 2, Model 3 increases the explanatory power by 6.1% points for China and 10.8% points for the U.S. Model 3 illustrates that the influence of personal achievement variables remains consistent, except "Other academic activities" in China. Moreover, Model 3 indicates that F = 30.13, p < 0.01 for China and F = 11.30 p < 0.01 for the U.S. Other variables maintain consistent significance levels across both countries, except the variable "Other academic activities," which is only significant in China. Thus, Model 3 demonstrates that the inclusion additional controls for individual achievements does not alter the lack of significance of the family background variable.

However, here, we must acknowledge that the low variance in this analysis could be a potential reason for the lack of significance of the family background variable. Professors may not always come from diverse socioeconomic backgrounds, as individuals with alternative forms of capital, either social or economic, may not always find this lengthy academic career path appealing. Moreover, certain variables such as holding a PhD or other degree or income may exhibit low variance within this profession compared to other professions such as law or medicine.

Discussion

In contrast to the commonly held belief that parental education positively impacts an individual's educational and career outcomes, we observed that the educational qualifications of the parents of most professors were lower than expected (Eccles, 2005; Behtoui & Neergaard, 2012; Whiston and Keller, 2004). This lack of parental education certainly did not prevent these professors from pursuing higher education or from entering academia. In fact, pursuing higher education allowed the professors to break free from their social roots, facilitating upward social mobility and enabling them to pursue their desired career paths. Thus, the concerns expressed by scholars regarding graduate education and career outcomes (Mullen et al., 2003: Wakeling and Laurison, 2017;) do not appear applicable to the field of academia. Additionally, having better educated parents does not necessarily confer a career advantage upon professors. In fact, according to some of our models, having better educated parents translates to poor career performance. Yet again, this contradicts the established notion of the positive influence of parental education on an individual's educational qualifications and career outcomes. These findings also align with those of Mastekaas (2006), who discovered that while social origins positively affect an individual's likelihood of enrolling in a PhD program, they do not improve their chances of post-graduation employment.

Table 3
Predictors of the Number of Refereed Articles

	N	Iodel 1	Mo	del 2	Мо	del 3			
		β		β		β		95% CI	
Variable	China	USA	China	USA	China	USA	China	USA	
Constant	10.63**	5.08**	5.81**	2.68	4.98**	-0.62	[3.57, 6.40]	[-4.47,	3.24]
Paternal education							[-0.52,	F 0.50	0.061
	-0.25	0.09	-0.19	0.17	-0.17	0.23	0.18]	[-0.50,	0.96]
Maternal education							[-0.58,	r o o2	0.551
	-0.39*	-0.03	-0.21	0.03	-0.23	-0.19	0.13]	[-0.92,	0.55]
Male dummy							[-0.12,	r 0 90	0.001
			1.09**	0.85	0.36	0.05	0.85]	[-0.89,	0.98]
Age in 2008			0.10**	0.03	0.08**	0.03	[0.05, 0.10]	[-0.01,	0.08]
Doctoral degree					2.84**	1.77**	[2.29, 3.40]	[0.63,	2.92]
Field of sciences					1.12**	1.48**	[0.67, 1.58]	[0.56,	2.40]
Teaching hours							[-0.02,	r 0 00	0.01]
					-0.01	-0.04	0.01]	[-0.08,	0.01]
Research hours					0.05**	0.18**	[0.03, 0.07]	[0.13,	0.23]
Service hours							[-0.04,	F O O 4	0.147
					0.01	0.05	0.06]	[-0.04,	0.14]
Admin hours							[-0.01,	F O O 4	0.001
					0.02	0.02	0.05]	[-0.04,	0.08]
Other hours					0.10**	0.00	[0.03, 0.16]	[-0.11,	0.11]
R^2	.007	.000	.027	.005	.088	.113			
F	10.78**	.030	23.91**	1.21	30.13**	11.30**			
N	3,142	968	3,142	968	3,142	968			

Conclusion

The literature on socioeconomic status posits that family background typically exerts a positive influence on an individual. However, our study reveals that the majority of professors included in our analysis have parents whose educational qualifications are lower than doctoral degrees, which are typically required for a career in academia. This trend is particularly pronounced in China,

where limited parents have educational qualifications beyond high school degrees. Importantly, our findings indicate that for professors, family background exerts no significant impact on career performance, whether quantified on the basis of income, rank, or the number of publications. Despite the fact that individuals entering any particular profession do not belong to a random group, their family backgrounds do not positively impact their career performance. The key insight here is that even if family background

increases the likelihood of pursuing a doctoral degree, this influence appears to cease at this point.

When comparing the two nations, we observe that social structure has significant impacts on Chinese professors, while personal agency variables affect U.S. professors. This distinction highlights that the American society emphasizes personal achievement, while China continues to value traditional structures. Despite being different in several aspects, both China and the U.S. present similar results regarding the absence of a correlation between family background and career performance among professors. This suggests that the perceived importance of family background may be weaker than previously assumed. Thus, an academic career represents a path through which individuals could transcend social-class constraints, as academic positions are predominantly meritbased rather than being ascriptive. These findings seem encouraging because they indicate that rather than family background, personal ability and effort form the pillars of an individual's success, thus improving the efficiency of human capital allocation.

Despite these encouraging results, we drawing inferences exercise caution in qualifications regarding educational professors do not represent the typical PhD holder, as only a subset of successful PhD holders are able to secure professor positions. While we acknowledge our data limitations, our findings imply that perhaps for academics, the strength of parental influence on children is weaker than previously believed. Future studies could examine whether professors perceive the academic career path as sufficiently rewarding to encourage their own children to pursue it. Alternative research paths could include investigating the same factors in other professions, such as medicine or law.

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Appendix A
Paternal and Maternal Education

		China		The United States			
	Father	Mother	Both Parents	Father	Mother	Both Parents	Difference
Education	%	%	%	%	%	%	%
No formal education	12.6	21.4	11.5	3.2	3.3	2	9.5
Entered and/or completed primary education	26.3	30.8	25.4	11	10.3	6.7	18.7
Entered and/or completed secondary education	34.2	33.6	34.7	31.8	37.6	28.4	6.3
Entered and/or completed tertiary education	26.9	14.2	28.4	54	48.8	62.9	-34.5
Number of observations		3,142	3,191	968	972	972	

Appendix B
Correlations of the Variables

	1	2	3	4	5	M	SD
1. Rank		.47**	.34**	12**	13**	2.3	0.98
2. Income	.15**		.25**	-0.03	05*	6,028	3,557
3. Articles	.20**	.14**		11**	11**	9	10.3
4. Paternal education	09**	-0.03	0.01		.75**	2.75	0.99
5. Maternal education	-0.05	-0.01	0	.63**		2.41	0.98
M	2.65	1,16,998	5.29	3.37	3.32		
SD	1.14	1,56,925	7.96	0.8	0.79		

Note: Correlations for Chinese participants (n = 3,420) are presented above the diagonal, and correlations for American participants (n = 991) are presented below the diagonal. Means and standard deviations for Chinese faculty are presented in the vertical columns, and means and standard deviations for American faculty are presented in the horizontal rows. (*p < .05, **p < .01)