



SELF-INVESTIGATION INTO REPERCUSSIONS OF PERFECTIONIST BEHAVIOR ON ACADEMIC ANXIETY AND FLEXIBILITY AMONGST CHINESE POSTGRADUATES

Li-Wei Weiⁱ

Lecturer,

Department of General Education,

Chinese International College,

Dhurakij Pundit University,

Thailand

Abstract:

Within the sphere of educational psychology, the impact of perfectionism on academic anxiety and flexibility has been closely examined, especially in the context of Chinese postgraduates. The current study analyzed these phenomena within a cohort of 218 postgraduates from a private international Chinese college in Thailand, reflecting an amalgam of Eastern academic culture and postgraduate educational expectations. Results indicated a notable degree of academic anxiety ($X=3.70$, $SD=.75$), alongside moderate levels of flexibility ($X=2.94$, $SD=.84$) and perfectionist behavior ($X=3.23$, $SD=1.01$). Disaggregating data by educational level, Masters students presented with moderate anxiety ($X=3.38$, $SD=.87$), low flexibility ($X=2.53$, $SD=.74$), and low perfectionism ($X=2.74$, $SD=.66$), whereas Ph.D. students exhibited significantly higher anxiety and perfectionism ($X=4.51$ and $X=4.48$, $SD=.84$ respectively), yet demonstrated greater flexibility ($X=3.99$, $SD=.71$). Gender and profession proved to be insubstantial factors in influencing these constructs. Contrastingly, educational level was a potent differentiator, with significant disparities evident. The interrelations highlighted a negative correlation between academic anxiety and flexibility ($r=-.121$), but a positive correlation between academic anxiety and perfectionist tendencies ($r=.424$). Flexibility and perfectionist behavior were also positively correlated ($r=.153$). To mitigate the adverse impacts of perfectionism, the study advocates for cognitive-behavioral interventions to reshape perfectionist thought patterns and bolster adaptive coping strategies. It encourages cultivating an educational ethos that emphasizes learning and psychological welfare over impeccable achievement and suggests normalizing mental health discourse within academic environments to alleviate the stigma surrounding perfectionism and anxiety.

Keywords: academic anxiety, perfectionist behavior, perfectionism tendency, academic flexibility, Chinese postgraduates

ⁱ Correspondance: email liwei.wei@dpu.ac.th

1. Introduction

1.1 Research Background and Motivation

Historically, the academic realm has consistently championed the ethos of unwavering dedication and the pursuit of excellence. However, perfectionism, distinguished by an inexorable drive for impeccability, often germinates from rigorous introspection and the ever-present dread of external appraisals (Filyasova, 2022; Aydın & Yerin, 2020; Kim, 2017). This drive, though ostensibly emblematic of high standards, is in fact a harbinger of potential psychological impediments with repercussions that breach the academic frontier (Adelson & Wilson, 2021; Shafran et al., 2018; Stoeber, 2017). Comprehensive empirical inquiries, employing both quantitative and qualitative methodologies, conspicuously attest to the link between intensified perfectionistic inclinations and amplified life stress or anxiety, cognitive inflexibility, and diminished psychological well-being (Sovia & Ansyah, 2023; Filyasova, 2022; Yüceant, 2022; Adelson & Wilson, 2021; Faustino et al., 2021; Aydın & Yerin, 2020; Shafran et al., 2018; Stoeber, 2017). Particularly, within the Chinese postgraduate milieu, these revelations underscore an urgent requisite for an astute overhaul of prevailing pedagogical frameworks, ensuring that the fervent quest for knowledge does not inadvertently descend into the confining abyss of perfectionism (Liu, 2023; Gao, 2023; Chen, 2021). Recent academic endeavours have proliferated our understanding of perfectionism, revealing its multifaceted nature (Fisher et al., 2023; Akbay & Delibalta; 2020; Lee & Kim, 2018). It is imperative to discern between the laudable aspiration for excellence and the fallacious, often pernicious, chase for flawless precision. Within the Chinese postgraduate context, a disconcerting observation emerges: the rigorous imposition of perfectionistic benchmarks by educators inversely impacts student cognitive flexibility, precipitating heightened anxiety and escalating the potential onset of anxiety disorders. Such developments not only impede a holistic academic evolution but also portend sustained psychological malaise (Sultan et al., 2023; Pitso, 2021; Zhang, 2021; Sirois & Molnar, 2015). It is, therefore, incumbent upon educationalists to meticulously appraise and recalibrate their pedagogical methodologies. The focal objective should transition towards sculpting a milieu that, while being academically demanding, remains suffused with empathy, fostering genuine cognitive growth whilst assiduously avoiding the ensnaring tendrils of perfectionism.

1.2 Research Gap and Value

Amidst the intricate tapestry of academic pursuits, the burgeoning preoccupation with perfectionistic proclivities and their subsequent implications on academic anxiety and cognitive flexibility, especially among Chinese postgraduates, emerges as a pressing research lacuna. Historically, academia has long valorized the unwavering commitment to excellence, a laudable ethos in itself. Yet, the blurred demarcation between such a commitment and the pernicious leanings of perfectionism signals a discerning need for methodical investigation. While prior studies have made strides in illuminating the ramifications of perfectionism, the distinctive milieu of Chinese postgraduate studies

remains relatively underexplored, notwithstanding its potent implications for both pedagogical practice and student well-being (Zhou, 2023; Gong et al., 2015; Lim, 2015). The propounded research questions, which meticulously probe the prevalence, variances, and correlations of perfectionistic tendencies vis-à-vis academic anxiety and flexibility, not only endeavor to elucidate this hitherto nebulous domain but also underscore its profound significance. Such an inquiry holds the promise of informing pedagogical methodologies, thus ensuring that the hallowed sanctums of academic institutions neither inadvertently nurture nor tacitly endorse a debilitating orientation towards perfectionism. The nexus between perfectionist behavior, academic anxiety, and cognitive flexibility among Chinese postgraduates is not merely an academic exploration but a clarion call for reimagining instructional paradigms in a manner that prioritizes holistic cognitive and psychological thriving.

1.3 Research Questions

In recent academic deliberations, the intricacies of perfectionist behavior amongst postgraduate learners have surfaced as a subject of paramount importance. Centered upon the context of Chinese postgraduates, the inquiry at hand meticulously unravels three pivotal research questions as below:

- 1) How prevalent are perfectionist behavior, levels of academic anxiety, and flexibility amongst Chinese postgraduate students?
- 2) Are there statistically significant differences in the perfectionist behavior, levels of postgraduates' academic anxiety and flexibility among Chinese postgraduates based on their educational levels (master/doctoral), gender disparities, and academic profession?
- 3) Is there a statistically significant correlation between the intensity of perfectionist behavior and the consequent academic anxiety and flexibility experienced by Chinese postgraduates?

2. Literature Review

In the scholarly arena of educational psychology, a comprehensive and meticulous examination of the multifaceted construct of perfectionism reveals its intricate nature and consequential impact on learners. Historically, the delineation of perfectionism has witnessed significant evolution. Early conceptualizations, such as the assertion by Flett et al. (2017), framed it as an invariably detrimental trait marked by an unyielding pursuit of flawless performance. Such perspectives were echoed by Molnar et al. (2017) and Flett et al. (1989) who associated perfectionism with onerous self-expectations and neurotic inclinations respectively. However, the seminal work of Frost et al. (1990) discerned perfectionism as not merely a striving for impeccable standards but also as fraught with hypercritical self-assessments. A pivotal shift in this discourse emerged with scholars like Hill (2016) positing a bifurcated understanding of perfectionism: the 'normal' variant characterized by judicious goal-setting and the 'neurotic' marked by insurmountable self-

expectations. This dualistic interpretation was further refined by Slade and Owens (1998) into adaptive and maladaptive forms, with the latter epitomizing maladjustment. Confirming this bifurcation, empirical studies have underscored two predominant dimensions: Evaluation Concerns Perfectionism (ECP) and Personal Standard Perfectionism (PSP), encapsulating the negative and positive facets of this construct respectively (Dunkley et al., 2010; Stoeber & Otto, 2006). From a multidimensional lens, Frost et al. (1990) demarcated six discernible dimensions, while Hewitt and Flett's (1991) tripartite division illuminated the interpersonal nuances. Collectively, this literature underscores the imperative to eschew monolithic interpretations and recognize the duality inherent in perfectionism, especially in pedagogical contexts, to optimize educational outcomes and foster psychological well-being.

Besides, anxiety in the domain of educational psychology is frequently conceptualized as a multifaceted psychological construct, deeply interwoven with learners' cognitive, affective, and behavioral realms. Historically, Spielberger's (2013) seminal work elucidated the dichotomous nature of anxiety, distinguishing between trait and state anxiety. The former, trait anxiety, delineates an enduring predisposition to perceive and respond to a broad range of situations as threatening, while the latter, state anxiety, encapsulates transient emotional states evoked by specific situations (Afshari, 2020; Menzheha, 2019; Turner, 2012). Notably, within the learning milieu, such a demarcation becomes paramount, for heightened state anxiety can impede cognitive processes vital for academic assimilation, such as working memory and attentional regulation (Moore & Buchwald, 2020; Edelman, 1992). Moreover, the intricate interplay between anxiety and other affective constructs, such as self-efficacy and motivation, further accentuates the need for educators and psychologists to comprehend and mitigate its potential deleterious ramifications on learners (Rababh, 2023; Mamolo, 2022; Onyeizugbo, 2017). As elucidated by Bandura (1988), learners' beliefs in their capabilities can either magnify or attenuate the palpable effects of anxiety, underscoring the quintessence of self-efficacy in the broader pedagogical discourse.

Last but not least, flexibility, as expounded within the contours of learning and educational psychology, is fundamentally associated with cognitive and metacognitive capacities to adaptively modulate one's thinking and strategies in response to dynamic situational demands (Doğan, 2023; Coleman & Oliveros, 2019; O'Toole et al., 2017). Often, in academic discourse, flexibility is juxtaposed against rigidity, with the latter representing an inflexible adherence to singular perspectives or strategies, irrespective of situational exigencies (Gonzaga et al., 2022; White & McCallum, 2021; Holland et al., 2021). Cognitively speaking, flexibility embodies the nimbleness to maneuver between abstract principles and specific exemplars, and to transition seamlessly across diverse problem-solving strategies (Wang et al., 2023; Chen & Qu, 2022; Wen et al., 2019). From a pedagogical vantage, fostering flexibility is paramount, for it bequeaths learners with the critical acumen to discern and apply pertinent strategies across a panoply of learning contexts, thus amplifying their academic resilience and adaptability (Gonzaga et al., 2022; Wen et al., 2019; Coleman & Oliveros, 2019). Ergo, in the epoch of rapidly evolving

knowledge landscapes, the deliberate cultivation of cognitive flexibility, interwoven with the metacognitive awareness to judiciously apply it, stands as an indispensable cornerstone of holistic education.

In the expansive realm of educational psychology, a particularly compelling nexus emerges between perfectionism, anxiety, and cognitive flexibility. The intricate relationship between perfectionism and mental health has garnered significant attention in empirical studies over the past decades (Juncos & Pona, 2022; Akpur & Yurtseven, 2019; Den-Uyl & Rasmussen, 2016; Basak, 2016). A notable observation reveals that perfectionism, while manifesting discernible merits, predominantly poses detrimental ramifications on psychological well-being (Wade, 2017; Dunkley, 2017; Joachim, 2017; Işgör, 2016). Historically, perfectionistic tendencies have been robustly correlated with a gamut of psychopathological phenomena, most prominently depression and anxiety (Hill, 2023; Starley, 2020; Dunkley, 2017). One might postulate, based on the available data, that perfectionism, characterized by an insatiable quest for flawlessness and the concomitant fear of making mistakes, precipitates heightened anxiety levels, thereby fostering an environment conducive to the onset of depressive symptoms (Lai & Yeung, 2023; Wu et al., 2022; Wei, 2023; Wei, 2022). Concurrently, studies have posited an intimate linkage between perfectionism and heightened anxiety levels (Ong, 2022; Ong & Twohig, 2022; Burgess & DiBartolo, 2015). This relationship is particularly salient in the context of socially prescribed perfectionism—a variant where individuals feel external pressures to be perfect—leading to severe social phobia and attendant anxieties (Saulnier, 2019; Egan et al., 2016).

Transitioning to the interface between anxiety and flexibility, it is instrumental in delineating the conceptual nuances of cognitive flexibility—a pivotal construct in educational psychology (Yang, 2023; Brustein, 2013; Stoeber & Janssen, 2011). Cognitive flexibility refers to the capacity to nimbly shift between mental sets or strategies in response to dynamic situational demands. Within this purview, individuals fraught with anxiety are often ensnared in rigid cognitive patterns, inhibiting adaptive flexibility and hampering optimal learning outcomes (Bulter et al., 2021; Warriner-Gallyer, 2019). This rigidity may be postulated as a defensive mechanism to navigate the chaotic torrents of anxiety. Hence, when examining the triadic relationship between perfectionism, anxiety, and flexibility, it is cogent to infer that perfectionistic individuals, already predisposed to anxiety, might manifest diminished cognitive flexibility, thereby perpetuating a deleterious cycle in educational contexts (Kendall, 2021; Barton & Lumley, 2020; Lahiri, 2016). However, it is essential to underscore the dynamicity and multifaceted nature of these constructs. While the overarching trends delineated above are empirically substantiated, individual variances abound. Thus, a more granulated, individual-centered approach, entrenched in holistic pedagogical strategies, is imperative to genuinely ameliorate the challenges posed by this complex interrelation in the domain of learning and education.

3. Methods

3.1 Research Participants

In the scholarly endeavor to delineate the repercussions of perfectionist behavior on academic anxiety and flexibility, a meticulous curation of participants was undertaken. This endeavor, informed by critical perspicacity and methodical structuration, was conducted within the hallowed precincts of a Chinese international college that is affiliated with a private university in the Kingdom of Thailand. This establishment, in its unique positioning, offers an intersection of Eastern cultural paradigms and the rigorous demands of postgraduate academia. In total, the study incorporated 218 postgraduate students, both males and females, delineated by their specific areas of postgraduate studies. These participants, presumably representing a broad spectrum of academic and cultural backgrounds, promise a rich tapestry of insights pertinent to our topic of investigation. From a gender perspective, the male participants (N=106) constituted 48.6% of the sample, while their female counterparts (N=112) formed a slightly higher 51.4%. This near-equilibrium in gender distribution assures that the study's findings are not inordinately skewed by gender-specific variables. Segregating further, from the academic credential perspective, a significant majority of the participants, precisely 72.0% (N=157), were pursuing their master's degree. Within this aggregation, 48.4% (N=76) were nestled in the precincts of Education Management, while 51.6% (N=81) were engrossed in Business Administration. In contrast, the doctoral aspirants (N=61) composed 28.0% of the total. Among them, those with an inclination towards Education Management were marginally predominant, constituting 55.7% (N=34), whereas 44.3% (N=27) were immersed in the study of Business Administration. This demarcation, resting on the very fulcrum of academic specialization and degree level, is poised to furnish nuanced understandings of how perfectionist tendencies interact with academic demands, anxiety thresholds, and adaptive flexibility across different postgraduate terrains. The methodical structure of the participant selection, coupled with the critical acumen applied in demographic categorization as shown in Table 1, underpins the coherence and logical rigor of the subsequent analysis.

Table 1: A Synopsis of the Demographic Attributes of the Research Sample

Demographic Parameter	Sub-Categories	Number (N)	Percentage (%)
Gender	Male	106	48.6%
	Female	112	51.4%
Total		218	100%
Degree Level	Master Degree	157	72.0%
	Edu. Management	76	48.4%
	Business Admin.	81	51.6%
	Ph.D.	61	28.0%
	Edu. Management	34	55.7%
	Business Admin.	27	44.3%
Professional Perspective	Edu. Management	110	50.5%
	Business Admin.	108	49.5%

3.2 Research Instruments

The present investigation employed three distinct psychometric instruments to elucidate the repercussions of perfectionist behavior on academic anxiety and flexibility among Chinese postgraduates. These instruments include the Academic Anxiety Scale, Coping Flexibility Scale, and Big Three Perfectionism Scale–Short Form (BTPS-SF). Each instrument, underpinned by its psychometric properties, serves as a crucial linchpin in comprehending the multifaceted dimensions of the research topic.

The Academic Anxiety Scale, an 11-item measure developed by Cassady (2020), utilizes a 5-point Likert scale to gauge the severity of academic anxiety experienced by participants. The scale's robust internal consistency is evidenced by its ordinal alpha ($\alpha = .94$) and ordinal omega ($\omega = .95$). Furthermore, the scale delineates four distinct levels of academic anxiety, ranging from 'Not Anxious' to 'High Academic Anxiety,' providing a nuanced understanding of the participants' academic emotional states. This instrument is instrumental in assessing the nexus between perfectionist tendencies and academic anxiety. In parallel, the Coping Flexibility Scale, developed by Kato (2012), comprises 10 items also anchored on a 5-point Likert scale. It measures participants' adaptability in coping strategies, segmented into Evaluation Coping and Adaptive Coping subscales. This scale's reliability is underscored by Cronbach's alphas of .87, .92, and .86 for abandonment, re-coping, and meta-coping respectively. The scale offers critical insights into the coping mechanisms adopted by postgraduates in the face of academic anxiety and their potential correlation with perfectionist inclinations. Finally, the Big Three Perfectionism Scale–Short Form (BTPS-SF) presents a 16-item measure, based on a 5-point Likert scale, elucidating three dimensions of perfectionism: rigid, self-critical, and narcissistic perfectionism (Feher et al., 2019). Each dimension demonstrates high test-retest reliability (rigid: $r = .79$, self-critical: $r = .75$, narcissistic: $r = .71$). This instrument is pivotal in discerning the complex layers of perfectionist behavior and its potential impact on academic anxiety and flexibility. Following that, Table 2 provides an in-depth overview of research instruments:

Table 2: An Overview of Research Instruments Adopted for the Current Study

Instrument	Key Features	Scale Type	Reliability Metrics	Item N	Ref.
Academic Anxiety Scale (AAS)	Four Levels of Anxiety Severity	5-point Likert Scale	Ordinal $\alpha = .94$ Ordinal $\omega = .95$	11	Cassady, J.C. (2020)
Coping Flexibility Scale (CFS)	Evaluation & Adaptive Coping Subscales	5-point Likert Scale	$\alpha = .87$ (abandonment) $\alpha = .92$ (re-coping) $\alpha = .86$ (meta-coping)	10	Kato, T. (2012)
Big Three Perfectionism Scale-Short Form (BTPS-SF)	Three Dimensions of Perfectionism	5-point Likert Scale	Rigid: $r = .79$ Self-critical: $r = .75$ Narcissistic: $r = .71$	16	Feher et al. (2019)

Sources: Cassady, J.C. (2020); Kato, T. (2012); Smith, Saklofske, et al. (2016)

3.3 Process, Data Collection and Analysis

The exploration of the repercussions of perfectionist behavior on academic anxiety and flexibility amongst Chinese postgraduates necessitates a meticulous research process, emphasizing robust data collection and rigorous analysis. This study adopts a quantitative research design, engaging with a sample comprising 218 Chinese postgraduates from an international college affiliated to a private university in Thailand. The dichotomy of this sample encompasses 157 master's degree students (72.0%) and 61 doctoral students (28.0%), thus presenting a heterogeneous representation of the academic strata. The data collection process was systematically structured, with questionnaires distributed to students during a six-month period, encapsulating a 45-hour course each month. This longitudinal approach not only allows for the capture of evolving perceptions but also ensures the reliability and validity of the gathered data. The research questions (RQs) guiding this study are meticulously crafted to dissect the intricate relationships between perfectionist behavior, academic anxiety, and flexibility. Regarding RQ1, the deployment of descriptive analysis, mean scores, and standard deviation furnishes a foundational understanding of the prevalence of perfectionist behavior, levels of academic anxiety, and flexibility amongst the participants. This statistical approach provides a panoramic view, offering insight into the central tendencies and dispersion of the observed phenomena. In addressing RQ2, the study employs Analysis of Variance (ANOVA) to discern statistically significant differences in perfectionist behavior, academic anxiety, and flexibility based on educational level (master/doctoral), gender disparities, and academic profession. This methodological choice is apt, given its potency in comparing means across multiple groups, thereby elucidating potential variances attributable to these categorical variables. For RQ3, the Pearson moment correlation analysis is utilized to unravel the intricacies of the relationship between the intensity of perfectionist behavior and the consequent academic anxiety and flexibility experienced by Chinese postgraduates. This statistical tool is aptly chosen for its capacity to measure the strength and direction of the linear relationship between two variables.

4. Results

4.1 Macro-Level Perspective: Average from All Postgraduates

The research, themed self-investigation into repercussions of perfectionist behavior on academic anxiety and flexibility amongst Chinese postgraduates, bespeaks a statistical investigation into the pervasiveness of these psychosocial constructs. In relation to academic anxiety, the data presents an intriguing constellation of mean scores, articulating a predominantly high average ($X=3.70$, $SD=.75$) across the eleven items. These metrics underscore a significant presence of anxiety-related sentiments, indicative of a psychological landscape where high academic expectations could potentially be fostering a concomitant elevation in anxiety levels. Turning to the domain of flexibility, the metrics articulate a narrative of moderate levels ($X=2.94$, $SD=.84$), suggesting a middling

propensity for adaptability and cognitive flexibility within this cohort. This infers a measured capacity for adjusting to evolving academic exigencies, which may be impinged upon by the aforementioned anxiety. In the ambit of perfectionist behavior, the analysis yields a moderate average score ($X=3.23$, $SD=1.01$), denoting a prevalent but not overwhelming inclination towards perfectionist tendencies among the surveyed postgraduates. This denotes a scholarly atmosphere where high standards are aspired to, yet not to the zenith of a paralyzing perfectionism. The meticulous interpretation of these levels, considering the mean scores and standard deviations, is instrumental in delineating the intricate tapestry of the educational psychology at play. It is pertinent to acknowledge that the findings glean on the dimensions of psychological comportment that could have profound implications for pedagogical strategies and psychological interventions within the academic sector. The below statistical Table 3 encapsulates the descriptive analysis, providing a synoptic view of the mean scores and standard deviations for the respective items under the purview of academic anxiety, flexibility, and perfectionist behavior, alongside the derived interpretations of their prevalence levels.

Table 3: A Synopsis of the Analysis of Descriptive Data Regarding Three Variables (N=218)

Variable Category	Mean (X)	Std. Dev. (SD)	Frequency (N)
Anxiety item 1	3.90	.69	N=218 Master:157 Ph.D.: 61
Anxiety item 2	3.91	.64	
Anxiety item 3	3.93	.63	
Anxiety item 4	3.78	.67	
Anxiety item 5	3.67	.77	
Anxiety item 6	3.19	1.04	
Anxiety item 7	3.84	.62	
Anxiety item 8	3.77	.70	
Anxiety item 9	3.67	.76	
Anxiety item 10	3.35	.96	
Anxiety item 11	3.65	.75	
Average	3.70	.75	Interpretation: High
Flexibility item 1	3.09	1.00	N=218 Master: 157 Ph.D.: 61
Flexibility item 2	3.02	1.04	
Flexibility item 3	3.10	1.01	
Flexibility item 4	3.06	.99	
Flexibility item 5	3.12	.98	
Flexibility item 6	2.77	.67	
Flexibility item 7	2.77	.67	
Flexibility item 8	2.76	.64	
Flexibility item 9	2.82	.70	
Flexibility item 10	2.86	.65	
Average	2.94	.84	Interpretation: Moderate
Perfectionist item 1	3.39	.99	N=218 Master: 157 Ph.D.: 61
Perfectionist item 2	3.39	1.04	
Perfectionist item 3	3.45	1.00	
Perfectionist item 4	3.44	1.01	

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Perfectionist item 5	3.36	1.00		
Perfectionist item 6	3.38	.98		
Perfectionist item 7	3.35	1.05		
Perfectionist item 8	3.44	.99		
Perfectionist item 9	3.06	1.05		
Perfectionist item 10	3.05	1.03		
Perfectionist item 11	3.01	1.00		
Perfectionist item 12	3.10	1.00		
Perfectionist item 13	3.00	1.02		
Perfectionist item 14	3.06	1.03		
Perfectionist item 15	3.09	1.04		
Perfectionist item 16	3.09	.98		
Average	3.23	1.01		Interpretation: Moderate

4.2 Micro-Level Perspective: MA vs. Ph.D.

In the scholarly pursuit of understanding the interrelations between perfectionist behavior and its consequential impact on academic anxiety and flexibility, a comparative analysis was embarked upon, scrutinizing data amassed from a cohort of Chinese postgraduate students—both Masters (N=157) and Ph.D. (N=61) students.

The collated data is synthesized in the following tabulation, encapsulating the comparative statistical landscape as presented in Table 4. Through a methodical and descriptive cross-case analysis, the quantitative revelations were meticulously dissected, revealing that masters students exhibited a moderate level of academic anxiety with an average mean score of 3.38 and a standard deviation (SD) of 0.87. Their flexibility remained low, evidenced by an average mean of 2.53 and a standard deviation of .74, and they also showed low levels of perfectionist behavior, with an average mean of 2.74 and a standard deviation (SD) of 0.66. Conversely, the Ph.D. student data starkly contrasted with their masters counterparts, as they displayed extremely high levels of both academic anxiety and perfectionist behavior, with respective average means of 4.51 and 4.48 and an unyielding standard deviation (SD) of .84. Their flexibility, however, was higher than that of the masters students, with an average mean of 3.99 (SD=0.71) but still reflected high within the spectrum of the metrics utilized. The salient discrepancy between the two echelons of academic tenure could potentially be ascribed to the intensifying academic pressures and expectations inherent in the terminal phase of postgraduate studies. Table 4 crystallizes the corollaries of the study: an ascending trajectory from moderate to extreme levels of anxiety and perfectionism transitioning from Master's to doctoral students, alongside an interesting increase in flexibility that may serve as a psychological buffer or compensatory mechanism amidst the straitened milieu of doctoral studies. The implications of these findings warrant further scholarly scrutiny and could indeed galvanize a pedagogical paradigm shift, aimed at ameliorating the perfectionist impetus that so trenchantly afflicts postgraduate students within the Chinese educational context.

Table 4: A Comparison of Descriptive Data from MA (N=157) and Ph.D. (N=61)

Academic Level	Variable	Mean (X)	SD	Interpretation
MA	Anxiety	3.38	.87	Moderate
MA	Flexibility	2.53	.74	Low
MA	Perfectionist	2.74	.66	Low
Ph.D.	Anxiety	4.51	.84	Extremely High
Ph.D.	Flexibility	3.99	.71	High
Ph.D.	Perfectionist	4.48	.84	Extremely High

4.3 Educational Levels Made Significant Difference

The analysis yielded that gender disparity does not constitute a determinative factor in the manifestation of perfectionist behavior, nor does it significantly sway the levels of academic anxiety or flexibility; these findings are substantiated by a p-value exceeding the conventional threshold of .05 (Anxiety: $F=1.181$, $p=.278$; Flexibility: $F=.061$, $p=.804$; Perfectionist Behavior: $F=.269$, $p=.604$). Similarly, the variable of academic profession was found to be a non-contributory determinant in the variances of the aforementioned psychological constructs, again underscored by p-values surpassing the .05 benchmark (Anxiety: $F=.084$, $p=.773$; Flexibility: $F=.527$, $p=.469$; Perfectionist Behavior: $F=.964$, $p=.327$). Conversely, educational levels emerge as a pivotal axis differentiating postgraduate students with a marked statistical significance identified across all three constructs; perfectionist behavior, academic anxiety, and flexibility (Anxiety: $F=1955.022$, $p=.000$; Flexibility: $F=93.661$, $p=.000$; Perfectionist Behavior: $F=5055.868$, $p=.000$). These incontrovertible results signal a profound disparity contingent upon the academic echelons of master's versus doctoral studies. The pronounced F-values intimate a robust effect size and a negligible probability of type I error, thereby corroborating the notion that educational level is intrinsically linked with the degree of perfectionist behavior, the experience of academic anxiety, and the proclivity towards flexibility within the academic pursuits of Chinese postgraduates. An exhaustive synthesis of the ANOVA outcomes was demonstrated in the subsequent Table 5.

Table 5: Results of ANOVA Analysis (N=218)

Variable: <i>Gender Disparity</i>		Sum of Squares	df	Mean Square	F	Sig.
Anxiety	Between Groups	.338	1	.338	1.181	.278
	Within Groups	61.765	217	.286		
	Total	62.103	218			
Flexibility	Between Groups	.028	1	.028	.061	.804
	Within Groups	98.470	217	.456		
	Total	98.498	218			
Perfectionist	Between Groups	.172	1	.172	.269	.604
	Within Groups	138.000	217	.639		
	Total	138.172	218			
Variable: <i>Professions</i>		Sum of Squares	df	Mean Square	F	Sig.
Anxiety	Between Groups	.024	1	.024	.084	.773
	Within Groups	62.079	217	.287		
	Total	62.103	218			
Flexibility	Between Groups	.240	1	.240	.527	.469
	Within Groups	98.258	217	.455		
	Total	98.498	218			
Perfectionist	Between Groups	.614	1	.614	.964	.327
	Within Groups	137.558	217	.637		
	Total	138.172	218			
Variable: <i>Educational Levels</i>		Sum of Squares	df	Mean Square	F	Sig.
Anxiety	Between Groups	55.924	1	55.924	1955.022	.000
	Within Groups	6.179	217	.029		
	Total	62.103	218			
Flexibility	Between Groups	93.661	1	93.661	4182.368	.000
	Within Groups	4.837	217	.022		
	Total	98.498	218			
Perfectionist	Between Groups	132.523	1	132.523	5066.868	.000
	Within Groups	5.649	217	.026		
	Total	138.172	218			

*The Mean Difference is significant at the 0.05 level.

4.4 Anxiety vs. Flexibility: Negative Correlated Exclusively

The interrelation between academic anxiety and flexibility is encapsulated by a negative correlation ($r=-.121$), suggesting that an augmentation in anxiety inversely correlates with flexibility, positing the argument that heightened anxiety potentially constricts adaptive and flexible responses to academic challenges. Conversely, a positive correlation between academic anxiety and perfectionist tendencies ($r=.424$) elucidates a directly proportional relationship, intimating that as perfectionism escalates, so too does the level of anxiety experienced by these postgraduates, thereby implicating perfectionist proclivities as a plausible exacerbator of academic distress. The final vector of this correlational triad reveals a positive relationship between flexibility and perfectionist behavior ($r=.153$), indicating that, to a certain degree, perfectionist tendencies may coexist with or perhaps even foster a certain facet of cognitive or behavioral adaptability. Such findings are meticulously encapsulated in Table 6, a tableau illustrative of the variegated nuances of

the study's results. The import of these statistical revelations cannot be overstated, for they provide an empirical substratum upon which future research may be founded and from which educational practitioners might derive intervention strategies. These correlations beckon further scholarly enquiry into the complex tapestry of psychological factors influencing academic comportment and performance within the contextual milieu of Chinese postgraduate education.

Table 6: Summary of Correlation Analysis Outcomes (N=218)

Variable		Anxiety	Flexibility	Perfectionist
Anxiety	Pearson Correlation		-.121**	.424**
	Sig. (2-tailed)		.000	.000
	N	218	218	218
Flexibility	Pearson Correlation	-.121**		.153**
	Sig. (2-tailed)	.000		.000
	N	218	218	218
Perfectionist	Pearson Correlation	.424**	.153**	
	Sig. (2-tailed)	.000	.000	
	N	218	218	218

** Correlation is significant at the 0.01 level (2-tailed).

5. Conclusion and Discussion

The exhaustive investigation conducted into the consequences of perfectionist behaviors on academic anxiety and flexibility among Chinese postgraduates yields conclusions of substantial gravity and extensive scope. The analysis elucidates that gender and academic discipline fail to manifest as significant differential agents in the psychological phenomena under consideration. In stark contrast, educational attainment levels emerge as significant discriminators, unveiling a multifaceted interplay of intrinsic and extrinsic motivations that cultivate perfectionist dispositions. This revelation punctuates the notion that such tendencies are more rooted in academic conditioning than in societal or vocational stereotypes (Lai & Yeung, 2023; Wang et al., 2023; Chen & Qu, 2022). The demarcation between master's and doctoral candidates is particularly telling, with those engaged in doctoral endeavors experiencing pronounced anxiety and perfectionism—a vivid testament to the intensifying pressures inherent at the apex of educational pursuit. Simultaneously, the data unfurls a paradox; the formidable trek toward doctoral completion, though psychologically taxing, appears to be mitigated by a nuanced augmentation in flexibility (Lai & Yeung, 2023; Lee & Kim, 2018; Kim, 2017). This denotes a dialectical tension where enhanced anxiety might coexist with—or indeed serve as a crucible for—the development of adaptive capabilities, thus instilling a certain resilience within the academic fray (Yüceant, 2022; White & McCallum, 2021).

The ensuing discourse necessitates an intricate dissection of the multiple dimensions that constitute the academic psyche, especially when perfectionism acts as a catalyst for an existence saturated with anxiety and stress (Zhou, 2023; Wei, 2023). The sinister companions of perfectionism—pessimistic cognitions and depressive

tendencies—and the reluctance to acknowledge psychological distress delineate a pathogenic trajectory of psychological strain, often veiled by an illusion of competence (Pitso, 2021; Saulnier, 2019). The dynamic of internalized ideals, apprehension of external appraisal, and the consequent evasive conduct portray a destructive spiral: the relentless quest for flawlessness engenders seclusion and exacerbates anguish (Juncos & Pona, 2022; Akpur & Yurtseven, 2019; Den-Uyl & Rasmussen, 2016). Furthermore, the established correlation between perfectionism and an array of anxiety pathologies, such as generalized and social anxiety, suggests malignant reciprocity (Ong, 2022; Ong & Twohig, 2022); perfectionism not only burgeons from anxiety but also acts to perpetuate and amplify it. These insights command an urgent imperative for clinical examination of perfectionistic predilections within the subset of individuals exhibiting symptoms of anxiety, to prevent the covert progression into acute mental health predicaments.

6. Recommendations

The recommendations posited in response to these findings carry the impetus of ameliorating the psychological afflictions induced by perfectionistic tendencies within the scholastic domain. Primordial among these is the imperative for educational entities and mental health professionals to maintain an astute awareness and provide supportive measures for those demonstrating perfectionistic behaviors, with particular attention to those in the latter stages of their academic endeavors. Customary interventions, conceivably those framed within cognitive-behavioral methodologies, aimed at restructuring perfectionist thought patterns and fortifying adaptive coping strategies, are of paramount importance. In tandem, the cultivation of an academic culture that esteems progress over perfection, the process of learning over the illusion of faultless performance, and places psychological welfare as a cornerstone of academic success, could significantly diminish the harmful impact of perfectionist inclinations. Finally, a robust initiative to normalize mental health struggles within academic environments, thereby empowering students to seek assistance sans fear of reprisal or judgment, could effectively disassemble the detrimental silence that enshrouds the nexus of perfectionism and anxiety. Through such channels, the educational terrain may transition to one that holistically supports the intellectual and psychological prosperity of its constituents.

Conflict of Interest Statement

The undersigned author hereby certifies the absence of any financial, personal, or professional interests that could be construed as a potential conflict of interest in relation to the manuscript submitted for publication.

About the Author(s)

Dr. Li-Wei (Henry) Wei is a passion-fueled distinguished researcher, serving as a full-time Ph.D. lecturer at the illustrious Chinese International College, a renowned institution within the acclaimed Dhurakij Pundit University in Thailand. His broad

spectrum of academic interest covers an impressive range of disciplines, inclusive of English as a Second Language (ESL) and English as a Foreign Language (EFL), English for Specific Purposes (ESP), Writing Instruction, Language Education Studies, Collocational Analysis, Language Assessment, Research in Higher Education, Educational Psychology and to name but a few. Esteemed as an integral figure within the Thai-Chinese scholarly community at DPU Thailand, Dr. Wei has contributed to the academic world through an extensive corpus of insightful publications. Concurrently, he is engaged in an ongoing series of research projects aimed at broadening the horizons of his fields of expertise. His relentless pursuit of knowledge and dedication to his discipline aligns with his ultimate goal of achieving the respected title of professorship.

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