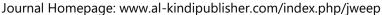
Journal of World Englishes and Educational Practices

ISSN: 2707-7586 DOI: 10.32996/jweep





| RESEARCH ARTICLE

Exploration of Thinking Modes and Methods in Family Education from the Perspectives of Chinese Philosophy and Quantum Mechanics

Zhou Baoying

Weidu Pythagorean Education Institution, Dalian City, Liaoning Province, China Corresponding Author: Zhou Baoying, E-mail: 52053992@qq.com

| ABSTRACT

In the realm of family education, the cultivation of children's moral character, verbal expressions, and behavioral patterns stands as a linchpin for their holistic development, with parents assuming a pivotal role throughout this intricate process. This research advocates that parents place a premium on delving into Chinese philosophy and traditional culture to extract the quintessential ideological elements that underpin effective family education. Concurrently, by ingeniously incorporating the theoretical breakthroughs of quantum mechanics, such as superposition states, wave–particle duality, and quantum entanglement—given that human beings are, at a fundamental level, composed of particles—this study endeavors to endow the cognitive framework of family education with scientific rigor and empirical substantiation. A systematic array of educational methodologies is subsequently deduced, aiming to optimize the efficacy and outcomes of family education practices.

KEYWORDS

Family education; Chinese philosophy; Quantum mechanics; Parent-child communication

ARTICLE INFORMATION

ACCEPTED: 27 November 2024 **PUBLISHED:** 19 December 2024 **DOI:** 10.32996/jweep.2024.6.3.13

1. Introduction

1.1 Research Background

In the contemporary sociocultural milieu, the significance of family education has burgeoned exponentially, as it serves as the crucible wherein children's personalities are molded, values are instilled, and future trajectories are charted. Chinese traditional culture and philosophy, amassed and refined over millennia, encapsulate a trove of sagacious insights into family education. Time-honored precepts such as "teaching students in accordance with their aptitude," "parents, out of love for their children, should devise far-sighted plans for their future" (Chen, 2018; Confucius, Warring States Period), have withstood the vicissitudes of time and continue to steer the pedagogical undertakings of innumerable families. Moreover, quantum mechanics, despite its ostensible focus on explicating the behaviors of microscopic entities within the domain of physics, harbors latent implications that resonate remarkably with the paradigms of family education. The amalgamation of ancient Eastern wisdom and modern scientific frontiers thus unfolds as fertile ground for probing novel paradigms and strategies in family education, bearing both profound theoretical implications and tangible practical value.

1.2 Literature Review

Family education has received increasing attention, and the integration of different disciplines is gradually becoming a trend. This literature review summarizes the achievements in this field and explores future directions.

Zeng Jinyan's "Quantum Mechanics Course" (2003) systematically explains the core concepts of quantum mechanics, laying a foundation for its application in family education. The quantum superposition state is similar to the starting state of children's

Copyright: © 2024 the Author(s). This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC-BY) 4.0 license (https://creativecommons.org/licenses/by/4.0/). Published by Al-Kindi Centre for Research and Development, London, United Kingdom.

internal drive, showing both activeness and inertia and highlighting parents' guiding role. The quantum entanglement state echoes the "Yin and Yang" concept in "The Book of Changes", indicating the interconnection in parent–child relations. Wave–particle duality reveals that a child's psychology varies with the environment and observers, warning parents against fixed evaluations and advising them to guide them on situations. A small number of studies have focused on the integration of the two, proposing some ideas of combination. However, they lack in-depth empirical research and are still at the preliminary stage.

The existing achievements have demonstrated the value of both. Future research needs to further explore the details of integration, build models, and promote the development of relevant tools and courses to increase the development of family education.

2. The Fundamental Role of Chinese Philosophical Thoughts in Family Education

2.1 Contemporary Guidance of Traditional Concepts

Chinese traditional culture functions as a repository of crystallized wisdom germane to family education. Foremost among these is the principle of "teaching students in accordance with their aptitude," which accentuates the imperative of customizing educational blueprints in consonance with children's idiosyncratic endowments and dispositions. The maxim "do not impose on others what you yourself do not desire" serves as a moral compass, nurturing children's capacity for empathy. The dictum "extend the respect for one's elders to that of others' elders, and the love for one's children to that of others' children" imparts a sense of altruistic morality. "Lead by personal example" enjoins parents to epitomize exemplary conduct for their progeny. Additionally, the compendium "Popular Adages for Enlightening the People" provides a plethora of pragmatic educational strategies. Collectively, these time-tested axioms constitute the bedrock of contemporary family education praxis.

2.2 Inheritance of Concepts from Classic Works

Chen Heqin's "Family Education" (2018) comprehensively elaborates on the practical guidelines for family education, covering aspects such as children's habit formation, moral cultivation and parent–child communication skills, and pinpointing the key points of education in family settings. In "The Analects of Confucius" (Warring States Period) by Confucius, golden sayings such as "teach students in accordance with their aptitude", and "parents, out of love for their children, should devise far-sighted plans for their future" have established educational principles for later generations, guiding parents to value children's individual differences and make long-term plans. Yan Zhitui's "Family Instructions of Master Yan" (Northern and Southern Dynasties), known as the "ancestor of family instructions", encompasses wisdom on self-cultivation, learning, and dealing with the world. The saying "the strictness between father and son should not lead to overfamiliarity; the love among family members should not result in negligence" warns about the propriety of parent–child interactions, strengthening the foundation of traditional Chinese family education. These works have constructed a framework for Chinese philosophy to guide family education, running through educational practices from ancient to modern times.

2.3 Influence on Educational Principles and Methods

Traditional philosophical concepts have given birth to a series of family education methods. "Teaching students in accordance with their aptitude" emphasizes accurately discerning children's talents and planning exclusive educational paths for them. "Lead by example" urges parents to regulate themselves and drive children's positive development through their own words and deeds. "Do not impose on others what you yourself do not desire" helps children cultivate empathy and moral character. These methods, passed down from generation to generation, have been integrated into daily family education interactions, becoming subconscious guidelines for parents and deeply influencing parent—child relationship models and the formulation of educational strategies.

2.4 In-depth Analysis of "Teaching Students in accordance with their Aptitude"

The crux of "teaching students in accordance with their aptitude" resides in the astute discernment of "aptitude" and the adroit implementation of "teaching" modalities. "Aptitude" encapsulates the kaleidoscope of individual variances, with each child possessing a sui generis cognitive framework and distinctive innate talents, thereby serving as the lodestar for educational planning. Confucius, an ancient sage, was the progenitor of this pedagogical tenet. Empirical evidence has unequivocally demonstrated that only through meticulous identification of "aptitude" can educators – often professional pedagogues – delineate the optimal learning ambits and methodologies. Conversely, "teaching," in the context of family education, devolves upon parents' purview and encompasses a gamut of practical exigencies, ranging from the astute observation of children's idiosyncrasies and the sagacious selection of educational institutions and instructors to the facilitation of efficacious parent–child communication, the forging of amicable relationships, the kindling of aspirational dreams, and the galvanization of intrinsic motivational forces.

3. The Inspiration of Quantum Mechanics Theories for Family Education Thinking

3.1 Connection between Microscopic Theories and Human Traits

Zeng Jinyan's "Quantum Mechanics Course" (2003) systematically explains the core concepts of quantum mechanics, laying a solid foundation for exploring its applications in family scenarios. The quantum superposition state can be analogized to the initial state of children's internal driving forces when they are doing things, explaining the situation where both positive and inert tendencies coexist. This highlights the crucial role of parental guidance, similar to how an observer affects the final state of a particle. The quantum entanglement state echoes the concept of "Yin and Yang" in "The Book of Changes", inspiring dialectical thinking in parent–child relationships. The emotions and behaviors of children and parents are intertwined, where a change in one side involves the other. The wave–particle duality reveals that an individual's psychological state changes with the environment and the observer, warning parents to avoid making fixed evaluations of their children and to guide them in line with specific situations.

Quantum mechanics prompt parents to reflect on parent–child communication from a microscopic perspective. After understanding the superposition state, parents are advised to offer more guidance and less interference when children are engaged in activities, which helps stimulate their potential. Compared with the entangled state, parents pay more attention to the overall influence of their words and deeds on their children and focus on emotional resonance. With the concept of wave–particle duality, parents realize that children's states are changeable. Therefore, when children make mistakes, parents should stay calm to help them build psychological resilience and create a harmonious parent–child communication atmosphere.

3.2 Superposition States and the Stimulation of Internal Driving Forces

Within the purview of quantum mechanics, particles do not exist in superposition states, a phenomenon that finds an intriguing parallel in the domain of family education. Analogously, the nascent motivational impetus of children to engage in tasks also manifests as a superposition of positive and inert propensities. Parents, as the linchpin observers in this scenario, wield a decisive influence over the orientation of these internal driving forces through their modes of participation and guidance. When children are immersed in play, parents are advised to employ Socratic questioning techniques to gently nudge them towards independent exploration, especially intervention. This approach serves to accentuate the positive constituents within the superposition state, concomitantly facilitating the early detection of children's latent talents and expediting the actualization of "teaching students in accordance with their aptitude". As we base our understanding on the fundamental concepts of quantum mechanics expounded in the "Quantum Mechanics Course" (Zeng, 2003), how such microscopic behaviors can analogously inform family education strategies becomes clearer.

3.3 Wave-Particle Duality and the Shaping of Children's Psychological Resilience

Wave–particle duality, a cornerstone concept in quantum mechanics, reveals the malleability of an individual's internal state, which is subject to fluctuations in response to environmental stimuli, temporal fluxes, and the presence or absence of observers. In the journey of a child's growth, the occurrence of errors is an unavoidable facet. Parents, in such instances, ought to refrain from wholesale condemnation or vituperative outbursts because of trifling mistakes. Instead, for minor transgressions, they should afford children the latitude to weather setbacks, whereas for consequential matters, they should proactively engage in dialogues, jointly distilling valuable lessons therefrom. This not only tempers children's psychological fortitude but also engenders a preponderantly positive mental disposition. This process, however, places exact demands on parents' reservoirs of patience, acumen, and communication finesse, often necessitating their adroit role-switching as observers when the situation so demands.

3.4 Quantum Entanglement States and the Dialectical Thinking of Parent-Child Relationships

The ontological concepts of "Yin" and "Yang," enshrined in the "I Ching," an ancient Chinese classic, bear a striking resemblance to the phenomenon of quantum entanglement, characterized by their interpenetrating and reciprocally influential nature. In the context of parent–child relationships, the application of this dialectical mindset provides invaluable insights for discerning children's emotional vicissitudes. Parents are enjoined to regard children as autonomous individuals, suffiting their interactions with respect and empathy. By zeroing in on the process of educational implementation, they can engineer diverse experiential opportunities for their offspring and meet apt guidance, thereby shepherding children's internal states from a nebulous superposition towards a state of lucidity and orderliness.

Figure 1 shows that there is an internal and external inconsistency between the parent–child relationship and the psychological state of the child at each stage of self-growth, remaining in a state of long-term entanglement. This is similar to the unity of opposites in quantum entanglement and the concept of Yin and Yang. Both parents hope to maintain good relationships with their children and worry about the erosion of their parental authority. Meanwhile, children both hope that their performance can satisfy their parents and want to do what they like! Thus, a situation of "desiring a harmonious relationship and acting contrary to it" emerges! This is true for both parents and children. Therefore, how can one break free from such an entangled state? Both philosophical concepts and quantum mechanics suggest a theory: seek a state of balance, the equilibrium point! Having

excellent parent-child communication is the key to finding this balance point. Since both parents and children hope to satisfy each other, where is the basic point of satisfaction?

Figure 1 shows how to reach a consensus through effective communication. To develop the willingness to communicate, parents need to identify the child's interests, initiate discussions on the basis of those interests, and then strive for harmony in the parent–child relationship. The techniques of parent–child communication will be described in another thematic paper.



Figure 1: A patient and an observer-like parent

4. Practical Approaches to Family Education by Integrating Chinese Philosophy and Quantum Mechanics 4.1 Avoiding the Trap of Spoiling and Grasping the Degree of Care

In the current familial landscape, parents are all too prone to inadvertently lapse into the quagmire of overindulgence. The root cause of this propensity can be traced to their ineptitude in calibrating the intensity of their affection, frequently resorting to a myopic evaluation of children's growth predicated solely on academic achievements. The age-old adage "parents, out of love for their children, should devise far-sighted plans for their future" (Confucius, Warring States Period; Chen, 2018) serves as a poignant reminder of the need to adopt a panoramic perspective on children's life trajectories. While parents may harbor profound emotional bonds with their children, their outwards expressions of love ought to be tempered with restraint, with an optimal intensity hovering approximately 60%, thereby ensuring that children experience a sense of comfort and freedom, unburdened by the suffocating weight of excessive affection. In this regard, "Family Instructions of Master Yan" (Yan, Northern and Southern Dynasties) also highlights the importance of maintaining an appropriate relationship between parents and children, stating that "The strictness between father and son should not lead to overfamiliarity; the love among family members should not result in negligence".

4.2 Setting Reasonable Goals and Standardizing Teaching Behavior

A segment of parents, unfortunately, falls prey to the pitfall of formulating unrealistic goals for family education, compounded by haphazard and impulsive teaching methodologies bereft of methodological rigor. This myopic approach invariably creates several developmental impediments for children. The cardinal objective of family education lies in the cultivation of children's tenacious character traits and the delineation of lucid developmental pathways.

Figure 1 shows that children's growth goals should be formulated on the basis of which stage of development they are in. According to the individuality of each child, the goals should be set within the zone of proximal development. Parents need to observe more and interfere less; guide more and decide less! They should teach students in accordance with their aptitude and avoid setting overly ambitious goals.

5. Conclusion

Chinese philosophical thoughts unfurl as a profound wellspring of inspiration, furnishing family education with both a sturdy theoretical foundation and sagacious directional guidance. Similarly, quantum mechanics, from a scientific vantage point, corroborate the sagacity of ancient wisdom, thus forging an inimitable synergy between the two. The overarching aim of family education is to sculpt children into individuals endowed with sterling moral fibre, unwavering tenacity, and a profound sense of national identity.

"Wait patiently for the blossoms to unfurl". Just as there are no two identically replicated leaves in the world, each child is asiatic generis individual. Initiation from respect for children, as parents, should progress in tandem with children, engage in mutual learning, forge a relationship of being both mentors and comrades, and become observers of each other's growth, jointly beholding the efflorescence and maturation of life.

Future research could focus on an even more granular exploration of the confluence of these two paradigms, buttressed by an expansion of empirical case studies, with the ultimate objective of erecting a comprehensive theoretical edifice and a practicable operational matrix for family education tailored to meet the kaleidoscopic needs of diverse family constellations and endowing family education with an unceasing impetus for evolution and refinement.

In the past decade, through the practical work of providing family education guidance services to hundreds of families and holding sharing courses with more than 10,000 participants, practical experience in family education guidance has accumulated. Under the guidance of relevant theories, traditional Chinese culture provides a profound theoretical foundation for guiding family education. Combined with the scientific viewpoints of quantum mechanics and on the basis of the understanding of individual differences among people and their diverse psychological states, after careful finishing, the following is the rewritten text: After induction and sorting, the practical experience, thus forming this thesis.

Funding: This research received no external funding.

Conflicts of interest: The authors declare no conflicts of interest.

Publisher's Note: All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations or those of the publisher, the editors and the reviewers.

References

- [1] Chen, H. Q. (2018). Family Education [M]. Shanghai: East China Normal University Press.
- [2] Confucius. (Warring States Period). The Analects of Confucius [M]. Hangzhou: Zhejiang University Press.
- [3] Yan, Z. T. (Northern and Southern Dynasties). Family Instructions of Master Yan [M]. Beijing: Zhonghua Book Company.
- [4] Zeng, J. Y. (2003). Quantum Mechanics Course [M]. Beijing: Science Press.
- [5] Hao, L. X. (2021). The Encounter between Philosophy in the Warring States Period and Physics in the Quantum World [J]. Bulletin of the Chinese Academy of Sciences, 36(01).