



Investigating the Role of Big Five Personality Traits in Experiencing Flow

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Abstract

This study investigates the role of the Big Five personality traits in predicting the flow experience among adult participants. Flow, a state of deep immersion and optimal engagement in activities, is crucial for well-being and productivity. This research aims to bridge this gap by examining how personality traits such as openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism affect the propensity to experience flow, with an additional focus. The study employs a quantitative research design; collecting data through surveys from 200 students (100 males and 100 females) aged 17 to 40 from various colleges in Madhya Pradesh. The questionnaire assesses the big five personality traits as well as flow experience. Data analysis includes correlation analysis and regression analysis to explore the relationships between the variables. Regression analysis reveals that extraversion and openness to experience significantly impact flow, whereas neuroticism negatively impacts it. Conscientiousness and agreeableness show minimal effects. Correlational analysis supports these results, with strong positive correlations between flow and openness to experience, conscientiousness, extraversion, and agreeableness, and a negative correlation with neuroticism. The results underscore the importance of fostering conducive environments and supportive contexts to enhance flow experiences through personality-informed interventions which provide valuable insights for educators and students.

INTRODUCTION

Flow is a state of complete immersion and optimal experience in an activity, is a concept that has garnered significant attention in the fields of psychology and positive psychology. The term flow was coined by Mihaly Csikszentmihalyi, flow describes moments when individuals are fully engaged and absorbed in activities that challenge their skills yet remain within their capabilities, leading to a sense of fulfillment and intrinsic motivation. Csikszentmihalyi described flow as “being completely involved in an activity for its own sake where the ego falls away, time flies with every action, movement, and thought follows inevitably from the previous one, like playing jazz.” Flow has several dimensions that characterize this optimal state of engagement. These include intense concen-

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tration on the present moment, a merging of action and awareness, a loss of self-consciousness, a sense of personal control or agency over the situation or activity, a distortion of temporal experience, and an intrinsic reward from the activity itself. In a state of flow, the individual feels a balance between the challenge of the task and their own skills, which creates a sense of effortlessness and deep enjoyment (Csikszentmihályi, 1990).

Several factors influence the experience of flow. The balance between challenge and skill is crucial; tasks that are too easy or too difficult can prevent flow. Clear goals and immediate feedback also facilitate flow, as they help individuals stay focused and adjust their performance as needed. Additionally, an individual's intrinsic motivation and interest in the activity play a significant role. Environments that minimize distractions and interruptions are more conducive to flow, as they allow for sustained concentration. Understanding the factors that contribute to the flow experience is essential for enhancing individual well-being and performance across various domains such as work, education, sports, and creative pursuits. In educational settings, students who experience flow are more likely to enjoy learning and demonstrate higher academic achievement. In the workplace, employees, who frequently experience flow, are more productive, creative, and satisfied with their jobs. Athletes and performers often describe being in the zone, which is essentially a flow state that enhances their performance. Artists and writers also report entering a flow state during their creative processes, leading to greater innovation and output.

Personality

Personality, a multifaceted concept, is defined in various ways by different psychologists. Gordon Allport described it as “the dynamic organization within the individual of those psychophysical systems that determine his characteristic behavior and thought” (Allport, 1961). Raymond Cattell viewed personality as “that which permits a prediction of what a person will do in a given situation” (Cattell, 1950). Hans Eysenck, known for his extensive work on personality and temperament, defined personality as “the more or less stable and enduring organization of

a person's character, temperament, intellect, and physique, which determines his unique adjustment to the environment” (Eysenck, 1967).

Personality encompasses several characteristics and dimensions. It is generally considered stable over time, yet it can also be flexible and adaptive. The primary dimensions of personality include traits like introversion-extroversion, stability-neuroticism, and openness to experience, among others. These dimensions help in understanding individual differences and predicting behavior across various situations. Theories of personality development provide frameworks for understanding how personality forms and evolves. Psychodynamic theories, such as those proposed by Sigmund Freud (1938), emphasize the role of unconscious processes and early childhood experiences. Humanistic theories, developed by Carl Rogers (1959) and Abraham Maslow (1987), focus on self-actualization and personal growth. Behavioral theories suggest that personality is shaped by interactions with the environment and learned behaviors. Cognitive theories emphasize the role of mental processes in the development of personality. Among these approaches, the trait theory of personality development is particularly prominent.

Trait Theory of Personality

Trait theory posits that personality is composed of broad traits, which are relatively stable over time and across situations. The most influential model within trait theory is the Big five personality traits, also known as the five-factor model (FFM). This model categorizes personality into five dimensions: Openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism (OCEAN).

- **Openness to Experience:** This trait features characteristics such as imagination, creativity, curiosity, and a preference for novelty and variety. Individuals high in openness are often open-minded and willing to explore new ideas and experiences (McCrae & Costa, 1987).
- **Conscientiousness:** This trait reflects a tendency to be organized, dependable, and disciplined. High conscientiousness is associated with a strong sense of duty, careful planning, and goal-oriented behavior (Barrick & Mount, 1991).

- Extraversion: It includes traits like sociability, assertiveness, and enthusiasm. Extraverts are typically outgoing, energetic, and enjoy social interactions (Watson & Clark, 1997).
- Agreeableness: This trait encompasses attributes such as kindness, empathy, and cooperation. Individuals high in agreeableness are often compassionate, trustworthy, and strive for social harmony (Graziano & Eisenberg, 1997).
- Neuroticism: This is characterized by emotional instability, anxiety, and moodiness. High levels of neuroticism can lead to negative emotional states and difficulty coping with stress (Lahey, 2009).

The big five model is widely supported by empirical research and is considered robust across different cultures and populations (McCrae & Costa, 1997). It provides a comprehensive framework for understanding the fundamental dimensions of human personality and has significant implications for various fields, including psychology, education, and organizational behavior.

Personality traits, as conceptualized by the big five model, play a crucial role in determining how individuals perceive and engage with their environment. The Big Five personality traits- openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism- provide a comprehensive framework for understanding individual differences in behavior, emotions, and cognition. Each trait encapsulates a range of characteristics that can influence one's propensity to experience flow. This research paper aims to investigate the role of the big five personality traits in experiencing flow. By examining how each trait contributes to or detracts from the likelihood of achieving flow, this study seeks to provide insights into the psychological underpinnings of optimal experience. Understanding these relationships can inform interventions designed to enhance flow and, consequently, improve overall well-being and performance in various aspects of life.

Leibovich *et al.* (2013) studied about the experience of flow in adolescence and its relationship with personality and age. Their research concluded that positive emotions were high during adolescence, so adolescents experience more flow. Emotions were

related to some personality characteristics those personality characteristics can be supported for the development and expression. They also discussed about the type of activities that enhances experience of enjoyment, those activities should also be promoted like activities with friends and sports activities. This research can help in planning intervention strategies to develop positive experiences in adolescents.

Present research is important because flow experience and personality traits are directly linked with happiness and wellbeing. Bassi, *et al.* (2014) researched about personality and optimal experience in adolescence. They found that at all saints who experienced flow showed higher satisfaction with life and psychological wellbeing. And also, that openness to experience was the only personality factor that predicted the occurrence of flow.

Objectives of the Study

In the light of above this study aims to investigate the role of the big five personality traits, i.e., openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism, in experiencing the state of flow. The present study was planned to address the following objectives:

- To examine the pattern of relationship between personality traits and flow experience.
- To examine the role of personality traits in predicting flow experience.

Hypothesis

- There would be positive relationship between openness to experience, conscientiousness, extraversion, agreeableness and flow experience and negative relationship between neuroticism and flow experience.
- There would be significant role of personality traits in predicting flow experience.

METHODOLOGY

Sample

A Total number of 200 adult participants between 17 to 40 years ages were selected to participate in study. Purposive sampling was used in the study.

The sample included equal number of male and female (100 males and 100 females) students from various academic streams - Engineering, Medical, Science, Commerce, Arts, Fine Arts, and Physical Education., studying in various colleges of Madhya Pradesh.

Design

In the present research, co-relational design was used. Correlation and regression analyses have been applied to explore the relationships between the variables. Pearson's correlation coefficient (r) measures the strength and direction of the linear relationship between two variables, while regression coefficients (β) examine the relationship between predictors and the dependent variable, indicating the change in the dependent variable for a one-unit change in the predictor.

Tools

The following tools were used in the study for data collection.

Measure for big five personality trait

In the present study a modified version of the Big Five Inventory developed by John, Donahue, and Kentle in 1991 was used in English version. The big five personality questionnaire is also known as OCEAN personality traits, is based on the Big five model that defines human personality as the combination of 5 personality traits or factors – Openness, conscientiousness, agreeableness, extraversion and neuroticism. It has 44 items. The scoring of the scale is based on Likert scale from strongly disagree (1) to strongly agree (5). There were some items that had reversed (R) scoring too. The maximum and minimum score on each trait is different. For openness to experience max score can be 50 and minimum score can be 10. For conscientiousness and agreeableness max score can be 45 and minimum score can be 9. For extraversion and neuroticism max score can be 40 and minimum score can be 8. The reliability coefficient for big five inventory is 0.83 and validity coefficient is 0.92 (John *et al.*, 1991).

Flow experience scale

The flow short scale developed by Rheinberg, Volmeyer, & Engeser, (2003) was used in the study in

English version. It consisted of 13 items. Ten items measure flow experience. These items are rated on a 5- point scale with scoring “not at all”(1) and “very much”(5) as the endpoints. The scoring is based on Likert scale ranging from max score as 65 to min score 13.

Reliability coefficient assessed through Cronbach's internal consistency for the total test was .90. Factorial validity of the entire test was examined (Rheinberg *et al.*, 2003)

Procedure

Researcher contacted the participants and obtained their consent to participate in the study. Researcher briefly explained about the purpose of research. Participants were also instructed that their responses will be kept confidential and will be used for academic purpose only. They were informed to ask their queries if any. After that, participants were given the scales (Big five Personality Trait Questionnaire and Flow Experience Scale) with a request to indicate their responses on the items of different scales. Participants took 30 to 45 minutes to give their responses by ticking on the appropriate alternatives. Participation in the research was voluntary. After data collection, responses in the form of scales were collected and participants were given thanks for their participation. Data was Analyzed through SPSS Software. Correlation and regression analyses have been applied to explore the relationships between the variables.

RESULT

The present study explored the relationships between big five personality dimensions and flow experience. The also examined the contribution of big five personality dimensions in predicting flow experience. The data was analyzed with the help of co-relational and regression analyses and presented below.

Correlations, presented in Table 1, contain the value and pattern of Pearson correlation coefficients between various personality traits and flow experience. Each value in the Table 1 represents the strength and direction of the linear relationship between two variables. It indicates how two variables are closely related and whether they move in the same or opposite directions.

Table 1: Inter relationships between big five personality dimensions and flow experience

Variables	Openness to experience	Conscientiousness	Extraversion	Agreeableness	Neuroticism	Flow experience
Openness to experience	1	0.46	0.67	0.48	-0.39	0.73
Conscientiousness		1	0.51	0.41	-0.42	0.50
Extraversion			1	0.48	-0.41	0.73
Agreeableness				1	-0.48	0.53
Neuroticism					1	-0.57
Flow experience						1

p-values ≤ 0.001

A close view on the correlational results indicates that openness to experience was positively related with conscientiousness ($r = .46$), extraversion ($r = .67$), agreeableness ($r = -.48$) and negatively related with neuroticism ($r = -.39$) dimensions. Similarly, the conscientiousness was positively related with extraversion ($r = .51$), agreeableness ($r = .41$), and negatively related with neuroticism ($r = -.42$) dimensions. Extraversion was positively related with agreeableness ($r = .48$) and negatively related with neuroticism ($r = -.41$) dimension. Agreeableness dimension was negatively related with neuroticism dimension ($r = -.48$). Relationships between big five personality dimensions and flow experience were also explored and showed in Table 1. It was observed that flow experience was positively related with openness to experience ($r = .73$), conscientiousness ($r = .50$), extraversion ($r = .73$), and agreeableness ($r = .53$) dimensions. Contrary to this, flow experience was negatively related with neuroticism ($r = .57$) dimension.

Regression Analysis: Personality traits as the predictor of flow experience

The regression analysis provides a detailed understanding of the influence of various independent variables on the criterion variable, flow experience. regression analysis helps in understanding the role of the big five personality traits in predicting flow experience by quantifying the relationship between each trait and the flow state. By calculating coefficients and *p-values*, the analysis identifies which traits significantly influence flow. For instance, traits

like extraversion and openness to experience show strong positive effects, indicating they enhance flow, while neuroticism has a negative impact. The statistical significance of these coefficients helps validate the predictive power of these traits, providing a clear, evidence-based understanding of how personality influences flow (Table 2).

DISCUSSION

The correlations and the regression coefficients provide a strong indication for a better understanding of the relationship between the personality traits and flow experience as well as in analyzing the role of openness to experience, conscientiousness, extraversion, agreeableness and neuroticism in predicting flow experience.

The first hypothesis suggested that there would be positive relationship between openness to experience, conscientiousness, extraversion, agreeableness and flow experience and negative relationship between neuroticism and flow experience was accepted through correlation analysis.

The second hypothesis suggested that there would be significant role of personality traits in predicting flow experience was also accepted, extraversion and openness to experience have positive role on flow experience and neuroticism has negative impact on flow experience.

Openness to Experience

Flow experience has a strong positive correlation with openness to experience. Individuals high in openness are characterized by their curiosity, imag-

Table 2: Stepwise regression analysis with big five personality dimensions as predictors and flow experience as criterion

	<i>R</i>	<i>R Square</i>	<i>Adjusted R Square</i>	<i>R Square Change</i>	<i>B</i>	<i>T</i>	<i>F</i>
Extraversion	.737a	.543	.541	.543	1.358	15.34	235.571
Openness to experience	.804b	.646	.642	.103	.592	7.55	179.686
Neuroticism	.841c	.707	.702	.061	-.565	-6.37	157.431

Criterion Variable = Flow Experience

ination, and willingness to engage in new experiences. Openness also has a regression coefficient of higher level which is highly significant. This strong positive effect aligns with previous studies which suggest that individuals high in openness are more likely to seek out new and complex experiences that foster flow. Csíkszentmihályi (1990) emphasized that openness to new experiences enhances one’s ability to engage deeply and creatively in tasks, thereby increasing the likelihood of achieving flow. This trait’s inclination towards novelty, variety, and intellectual curiosity makes individuals more adaptable and capable of finding optimal engagement in various activities.

Conscientiousness

The positive correlation between conscientiousness and flow suggests there might be a role of discipline, organization, and goal-oriented behavior in facilitating flow experiences. The finding suggests that conscientiousness does not significantly influence flow, which may be surprising given its association with discipline and goal-oriented behavior. However, Jackson and Marsh (1996) noted that conscientious individuals might be better at setting goals and organizing tasks, this study suggests that these traits alone do not substantially contribute to the deep, effortless involvement characteristic of flow.

Extraversion

Extraversion shows a strong positive correlation with flow, indicating that outgoing and energetic individuals are more prone to experience flow. Extraverts tend to be more engaged in social and interactive activities, which can provide the stimulating environment needed for flow. It again demonstrates that extraversion has positive influence on flow experience. According to Csíkszentmihályi (1997),

extraverted individuals are more likely to immerse themselves in activities due to their high levels of energy and enthusiasm. Their tendency to seek out stimulating environments and their ability to stay actively engaged contribute positively to their flow experiences.

Agreeableness

Flow experience is also positively correlated with agreeableness, but regression results does not seem to significantly affect flow experience. Although agreeable individuals are cooperative and empathetic, these traits do not appear to directly facilitate the immersive and highly focused state of flow. Keller and Bless (2008) also found that while agreeableness might enhance social interactions, it does not necessarily translate into a higher propensity for experiencing flow.

Neuroticism

In contrast, the negative correlation between neuroticism and flow suggests that individuals with high levels of emotional instability and anxiety are less likely to experience flow. This negative impact is again confirmed by a regression results which is highly significant. High levels of neuroticism, associated with emotional instability and anxiety, disrupt the concentration and intrinsic motivation required for flow. Eisenberger *et al.* (2005) noted that neurotic individuals are more prone to distractions and negative emotions, which hinder their ability to engage deeply in activities. This finding reinforces the notion that emotional stability is crucial for achieving and maintaining flow.

These findings are in the agreement of the proposed hypotheses of this research and are also consistent with previous researches that have explored the relationship between personality traits and flow.

For instance, Csíkszentmihályi emphasized the importance of personality in achieving flow, noting that traits like openness and extraversion significantly contribute to the frequency and intensity of flow experiences. Additionally, studies by Keller and Bless (2008) and Jackson and Marsh (1996) have reinforced the idea that the big five personality traits play a crucial role in determining how often and how deeply individuals experience flow. Dunkel *et al.* (2022) suggested that the list of psychological constructs of general factor of personality is growing and it may include flow also. Flow proneness and general factor of personality showed high degree of overlap which indicates they might be originated from same psychological processes.

CONCLUSION

The present research paper presents detailed description on the role of the big five personality traits, openness to experience, conscientiousness, extraversion, agreeableness and neuroticism, in predicting the flow experience in individuals. While, the correlation analysis highlights that individuals who are open to experience, conscientious, extraverted, and agreeable are more likely and those high in neuroticism are less likely to experience flow, the regression analysis underscores the significant roles that openness to experience, extraversion, and neuroticism play in facilitating or hindering flow experience. Curtis S. These insights can be utilized to create environments and develop personal strategies that enhance the likelihood of experiencing flow, thereby improving performance, creativity, and overall well-being.

REFERENCES

Allport, G. W. (1961). *Pattern and Growth in Personality*. Holt, Rinehart, & Winston.

Barrick, M. R., & Mount, M. K. (1991). The big five personality dimensions and job performance: a meta-analysis. *Personnel psychology*, 44(1), 1-26.

Bassi, M., Steca, P., Monzani, D., Greco, A., & Fave, A. D. (2014). Personality and optimal experience in adolescence: Implications for well-being and development. *Journal of Happiness Studies: An Interdisciplinary Forum on Subjective Well-Being*, 15(4), 829–843. <https://doi.org/10.1007/s10902-013-9451-x>

Cattell, R. B. (1950). *Personality: A Systematic, Theoretical,*

and Factual Study. McGraw-Hill.

Costa, P. T., & McCrae, R. R. (1992). *Revised NEO Personality Inventory (NEO-PI-R) and NEO Five-Factor Inventory (NEO-FFI) Professional Manual*. Psychological Assessment Resources.

Csikszentmihalyi, M. (1990). *Flow: The Psychology of Optimal Experience*. Harper & Row.

Csikszentmihalyi, M. (1997). *Finding Flow: The Psychology of Engagement with Everyday Life*. Basic Books.

Dunkel, C. S., van der Linden, D., & Bardmass, M. (2022). Measures of flow proneness mainly assess the general factor of personality. *Personality and Individual Differences*, 196, Article 111759. <https://doi.org/10.1016/j.paid.2022.111759>

Eisenberger, R., Jones, J. R., Stinglhamber, F., Shanock, L., & Randall, A. T. (2005). Flow experiences at work: For high need achievers alone? *Journal of Organizational Behavior*, 26(7), 755-775.

Eysenck, H. J. (1967). *The Biological Basis of Personality*. Charles C. Thomas Publisher.

Freud, S. (1938). In: *An Outline of Psychoanalysis*. James Strachey, translator. London: Hogarth Press; Standard Edition.

Graziano, W. G., & Eisenberg, N. (1997). Agreeableness: A dimension of personality. In R. Hogan, J. A. Johnson, & S. R. Briggs (Eds.), *Handbook of personality psychology* (pp. 795–824). Academic Press. <https://doi.org/10.1016/B978-012134645-4/50031-7>

Jackson, S. A., & Marsh, H. W. (1996). Development and validation of a scale to measure optimal experience: The Flow State Scale. *Journal of Sport and Exercise Psychology*, 18(1), 17-35.

John, O. P., Donahue, E. M., & Kentle, R. L. (1991). *The Big Five Inventory: Versions 4a and 54*. Berkeley: University of California, Berkeley, Institute of Personality and Social Research.

John, O. P., & Srivastava, S. (1999). The Big Five trait taxonomy: History, measurement, and theoretical perspectives. In L. A. Pervin & O. P. John (Eds.), *Handbook of personality: Theory and research* (2nd ed., pp. 102-138). New York: Guilford Press.

Keller, J., & Bless, H. (2008). Flow and regulatory compatibility: An experimental approach to the flow model of intrinsic motivation. *Personality and Social Psychology Bulletin*, 34 (2), 196-209.

Lahey, B. B. (2009). Public health significance of neuroticism. *American Psychologist*, 64(4), 241–256. <https://doi.org/10.1037/a0015309>

Leibovich, N., Maglio, A. L., & Giménez, M. (2013). The experience of flow in adolescence. Its relationship with personality traits and age. *Orientación y Sociedad*, 13, 1-21.

Maslow, A. H. (1987). *Motivation and personality* (3rd ed.). Boston, MA: Addison-Wesley

McCrae, R. R., & Costa, P. T. (1987). Validation of the five-factor model of personality across instruments and observers. *Journal of Personality and Social Psychology*, 52(1),

- 81–90. <https://doi.org/10.1037/0022-3514.52.1.81>
- McCrae, R. R., & Costa, P. T. (2008). The Five-Factor Theory of Personality. In O. P. John, R. W. Robins, & L. A. Pervin (Eds.), *Handbook of Personality: Theory and Research* (3rd ed., pp. 159-181). The Guilford Press.
- McCrae, R. R., & Costa, P. T., Jr. (1997). Personality trait structure as a human universal. *American Psychologist*, 52(5), 509–516. <https://doi.org/10.1037/0003-066X.52.5.509>
- Nakamura, J., & Csikszentmihalyi, M. (2002). The concept of flow. In C. R. Snyder & S. J. Lopez (Eds.), *Handbook of Positive Psychology* (pp. 89-105). Oxford University Press.
- Rheinberg, F., Vollmeyer, R. & Engeser, S. (2003). Capturing the flow experience. In J. Stiensmeier-Pelster & F. Rheinberg (Eds.), *Diagnostics of motivation and self-concept* (pp. 261-279). Göttingen: Hogrefe.
- Rogers, C. R. (1959). *A theory of therapy, personality and interpersonal relationships, as developed in the client-centered framework*. NY: McGraw-Hill.
- Ryan, R. M., & Deci, E. L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist*, 55(1), 68-78.
- Ullén, F., de Manzano, Ö., Almeida, R., Magnusson, P. K. E., Pedersen, N. L., Nakamura, J., & Csikszentmihalyi, M. (2012). Proneness for psychological flow in everyday life: Associations with personality and intelligence. *Personality and Individual Differences*, 52(2), 167-172.
- Watson, D., & Clark, L. A. (1997). Extraversion and its positive emotional core. In R. Hogan, J. A. Johnson, & S. R. Briggs (Eds.), *Handbook of personality psychology* (pp. 767–793). Academic Press. <https://doi.org/10.1016/B978-012134645-4/50030-5>