A Factor Analysis of Big Five Personality Traits among Undergraduate Students in Thailand

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ABSTRACT

The study aimed to validate the model of big five personality traits among undergraduate students in Thailand. The samples were 1,050 undergraduate students in 50 universities. They were selected by multi-stage random sampling. Data were collected through the instrument applied from International Personality Item Pool (IPIP). A confirmatory factor analysis (CFA) was used in this study. The research results showed that the big five personality traits model of undergraduate students had a good fit to the empirical data. The statistical values were Chi-square ($\chi^2 = 4.026$, df = 3, $\chi^2$/df = 1.342, p-value = 0.259, RMSEA = 0.018, RMR = 0.005, GFI = 0.998, AGFI = 0.992 and CFI = 0.999. The personality traits comprised 5 factors as follows: 1) Openness to Experience (O) 2) Conscientiousness (C) 3) Extraversion (E) 4) Agreeableness (A) and 5) Neuroticism (N) and the factor loading values were 0.597, 0.739, 0.703, 0.772 and -0.616 respectively.

Keywords: Factor analysis, Big five personality traits, Undergraduate student