

Dear Editor and Reviewers,

Thank you very much for your comments which are very constructive and helpful. Accordingly we have revised the paper thoroughly, including structure and variables. Specifically, we have made the following changes, in response to your comments. We hope that the revisions are satisfactory. Herewith, we would like to resubmit the revised manuscript.

1. Comments from Reviewer 1

My ability to interpret the variables listed in Table 1 is limited because I am not familiar with 2019 Beijing City Health Examination data source. If space permits, I would like to see more description of this survey (or external link) and more context on how readers should interpret the variables. For Example, the means reported for the road accessibility and child care facilities are 72.5 and 73.53, respectively. I assume higher scores mean greater satisfaction, but it is not clear. Does satisfaction range from 0 to 100? The dependent variable, SWB, appear to be categorical variables (1, 2, or 3).

Response: We thank the reviewer for the positive comments about the paper. Firstly, we add a description of the survey in part 3.2: “Data support for this work comes mainly from the social satisfaction survey of the 2019 Beijing City Health Examination carried by Beijing Municipal Commission of Planning and Natural Resources, which uses the subjective satisfaction of residents as a measurement scale of urban living environment, and is complementary to the traditional evaluation consisting of only physical indicators”.

Then we explain the variables in the same part. The survey investigated the respondents’ satisfaction level of over 50 indicators, as well as their subject well-being and personal attributes. Respondents were asked whether they were satisfied with certain indicator. Each answer was measured with 5-point Likert rating scale from “low satisfaction level”, “low-Intermediate satisfaction level”, “Intermediate satisfaction level”, “high-Intermediate satisfaction level”. In the paper, the answer was assigned a value of 20, 40, 60, 80 and 100, respectively. The answer to the survey questions: “All things considered, how happy are you with your life as a whole?” is used to measure SWB. The responses are recorded on a 3-point Likert scale with “1 = Unhappy”, “2 = Fair”, “3 = Happy”.

The authors should justify their use of standard OLS regression analysis versus using a statistical method designed for categorical data analysis such as multinomial regression analysis.

Response: A large number of research results show that the results of ordered probit model or multi-nominal regression analysis are basically consistent with those of OLS, but the results of OLS model are more intuitive and easier to interpret, so OLS model is intended to be adopted as the final model. Please refer to this literature: Lu, M. (1999). *Determinants of residential satisfaction: Ordered logit vs. Regression models. Growth and Change*, 30.

Also, are the reported findings in Tables 3a and 3b standardized coefficients? It appears may be the case from what the authors write in the first paragraph on page 7.

Response: The reported findings in Tables 3a and 3b are standardized coefficients.