**General Linear Model (GLM) – Assignment 2**

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**Results**

The dataset used for this analysis consisted of three subscales measuring socially prescribed perfectionism, negative affect, and conscientiousness. The goal of this study is to show the incremental validity of socially prescribed perfectionism (SPP) as a predictor of negative affect, more so than other predictors such as sex and conscientiousness. To do this, the following hypotheses were investigated using the general linear model (GLM). H1: Sex, conscientiousness, and SPP will all significantly predict negative affect. H2: SPP will predict unique variance in negative affect over and above sex and conscientiousness in a meaningful way.

**Data Cleaning**

The data set was manipulated to change the sex variable from a string to a factor (female = 0, male = 1, other = 2). Once this was done, the data was observed and the variable ‘tipm.CONS2.3y’ was reverse coded. After the data was visually looked over, the means for each subscale were calculated (Table 1A).

**Primary analysis**

Univariate relationships were visualized (Fig 1B), all figures showed relatively normally distributed data and there were no serious concerns for outliers based off visual inspection of the distribution. A sensitivity analysis was conducted to see if the outlier ‘other’ participant needed to be excluded within the data set. As only 1 participant categorized themselves as ‘Other’ when asked about sex (Fig 2B, Fig 4B) the change does not seem to be affected. The model (AIC = 333.26, BIC = 347.63) showed no change to the original model (AIC = 333.26, BIC = 347.63) when the participant was removed, so the participant remained included in the dataset (Fig 3B, Fig 5B).

The visualization of the model (Fig 6B) revealed gender-specific differences in the relationship between Conscientiousness and Negative Affect. In females, there was a negative correlation between Conscientiousness and Negative Affect, which became stronger with higher levels of SPP. Conversely, in males, there was also a negative relationship noticeable at lower SPP levels. Additionally, in females, SPP showed a positive correlation with Negative Affect, consistent across levels of Conscientiousness. However, SPP in males displayed a negative association with Negative Affect at low Conscientiousness levels but a positive association at mid-levels.

The model was visualized, and the residual histogram (Fig 6B) showed normally distributed data. The residual dependance plot did show a slight curvature, which could suggest a violation of linearity. To determine whether this curvature was a violation, a sensitivity analysis (Fig 7B) was performed to display the data set as a polynomial. AIC/BIC values when compared across models showed no differences (Model 1: AIC = 336.72, BIC = 354.02, Model 3: AIC = 336.38, BIC = 356.56, Model 4: AIC = 335.36, BIC = 355.536) and therefore it was concluded that the linear model was acceptable to use in the analysis. A horizontal line within the scale-location plot indicated adequate levels of homoscedasticity.

**Hypothesis 1**

As part of the GLM a full and reduced model were used to visualize the univariate and bivariate distributions associated with H1: Sex, conscientiousness, and SPP will all significantly predict negative affect. Full model: Negative Affect = b0 + b1\*sex + b2\*conscientiousness + b3\*perfectionism + e. Reduced model: Negative Affect = b0 + e. A comparison between the full and reduced models showed that the full model (AIC = 336.72, BIC = 354.02, p-value = 2x10-16, Bayes Factor = 61624.36, R2 = 0.27) fits more closely than the reduced model (AIC = 370.31, BIC = 376.07, Bayes Factor = 0, R2 = 0). The lower AIC/BIC values, high level of Bayes Factor, small p-value all support the use of the full model. Conscientiousness can be attributed to 15.9% of the variance, sex and SPP are attributed to 2.7% and 8.4% of the variance respectively. This model allows for a total of 27% of the variance and therefore is the right model fit for this analysis (Table 2A).

H1 has been supported by the above findings as sex, conscientiousness, and SPP all showed some level of predicted variance of negative affect. When looking specifically at gender differences, the hypothesis also supported prior research and males showed a negative relationship with negative affect as compared to females. This indicates that females do experience high levels of negative affect.

**Hypothesis 2**

The second analysis looked to determine whether SPP will predict unique variance in negative affect over and above sex and conscientiousness in a meaningful way. To do this, an added variable plot was visualized (Fig 8B). By controlling for sex and conscientiousness there was a positive association between SPP and negative affect. The model was adjusted to reflect this finding to the following, Full model: Negative Affect = b0 + b1\*Perfectionism + b2\*Conscientiousness + b3\*sex + e. Reduced model: Negative Affect = b0 + b1\*sex + b2\*Conscientiousness + e. Similarly to H1 above, the models were assessed to determine which would offer a better fit the research question (Fig 9B, Fig 10B). A comparison between the full and reduced models showed that the full model (AIC = 336.72, BIC = 354.02, p-value = 2x10-16, Bayes Factor = 117.238, R2 = 0.27) fits more closely than the reduced model (AIC = 349.132, BIC = 363.54, Bayes Factor = 0.009, R2 = 0.186). The lower AIC/BIC values, Bayes Factor of over 100, and small p-value all support the use of the full model over the reduced model. The full model can account for the 27% of the variance whereas the reduced model is only able to account for 18.6% of the variance (Table 3A). As the full model can account for a higher amount of the variance it cannot support the second hypothesis. SPP does not predict a unique variance in negative affect over and above the variance of sex and conscientiousness.

**Appendix A**

Tables concerning analyses of dataset.

Table 1A

*Means, standard deviations, and correlations with confidence intervals*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | *M* | *SD* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. mps.SPP1.3y | 4.50 | 1.73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. mps.SPP2.3y | 5.29 | 1.53 | .48\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.34, .60] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. mps.SPP3.3y | 4.22 | 1.99 | .39\*\* | .60\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.24, .53] | [.47, .70] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4. mps.SPP4.3y | 3.88 | 1.81 | .47\*\* | .59\*\* | .76\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.32, .59] | [.46, .69] | [.68, .83] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5. mps.SPP5.3y | 3.99 | 1.78 | .40\*\* | .58\*\* | .60\*\* | .73\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.24, .53] | [.45, .68] | [.48, .70] | [.64, .80] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6. guilt1.3y | 2.70 | 1.28 | .24\*\* | .25\*\* | .31\*\* | .29\*\* | .29\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.08, .40] | [.09, .41] | [.14, .45] | [.12, .44] | [.12, .44] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7. guilt2.3y | 2.20 | 1.36 | .38\*\* | .28\*\* | .21\* | .27\*\* | .29\*\* | .75\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.22, .51] | [.11, .43] | [.04, .37] | [.10, .42] | [.12, .43] | [.67, .82] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8. guilt3.3y | 2.88 | 1.34 | .38\*\* | .30\*\* | .29\*\* | .30\*\* | .34\*\* | .75\*\* | .75\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.22, .52] | [.14, .45] | [.13, .44] | [.14, .45] | [.18, .49] | [.67, .82] | [.67, .82] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9. dep1.3y | 3.21 | 1.17 | .13 | .22\* | .13 | .24\*\* | .23\*\* | .65\*\* | .61\*\* | .59\*\* |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [-.04, .29] | [.05, .38] | [-.04, .30] | [.07, .40] | [.06, .39] | [.54, .74] | [.49, .70] | [.46, .69] |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10. dep2.3y | 2.73 | 1.34 | .21\* | .23\*\* | .23\*\* | .30\*\* | .28\*\* | .56\*\* | .63\*\* | .56\*\* | .67\*\* |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.04, .36] | [.06, .39] | [.06, .39] | [.14, .45] | [.12, .43] | [.43, .67] | [.52, .73] | [.43, .67] | [.56, .75] |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. dep3.3y | 2.80 | 1.28 | .23\*\* | .18\* | .15 | .21\* | .22\* | .59\*\* | .59\*\* | .59\*\* | .67\*\* | .76\*\* |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [.06, .38] | [.01, .34] | [-.02, .31] | [.04, .36] | [.05, .38] | [.46, .69] | [.47, .69] | [.47, .69] | [.56, .75] | [.67, .82] |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12. fear1.3y | 2.39 | 1.32 | .14 | .22\*\* | .12 | .15 | .22\* | .56\*\* | .62\*\* | .56\*\* | .58\*\* | .56\*\* | .58\*\* |  |  |  |  |  |  |  |  |  |  |
|  |  |  | [-.03, .31] | [.06, .38] | [-.05, .28] | [-.02, .31] | [.05, .38] | [.43, .67] | [.50, .72] | [.42, .66] | [.45, .68] | [.43, .66] | [.45, .68] |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13. fear2.3y | 2.27 | 1.25 | .09 | .15 | .17 | .18\* | .18\* | .58\*\* | .58\*\* | .50\*\* | .57\*\* | .55\*\* | .54\*\* | .92\*\* |  |  |  |  |  |  |  |  |  |
|  |  |  | [-.08, .25] | [-.03, .31] | [-.00, .33] | [.01, .34] | [.00, .34] | [.45, .68] | [.45, .68] | [.37, .62] | [.44, .67] | [.41, .66] | [.41, .65] | [.88, .94] |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14. fear3.3y | 2.07 | 1.22 | .25\*\* | .17\* | .18\* | .20\* | .24\*\* | .55\*\* | .56\*\* | .53\*\* | .50\*\* | .50\*\* | .61\*\* | .81\*\* | .84\*\* |  |  |  |  |  |  |  |  |
|  |  |  | [.08, .40] | [.00, .34] | [.01, .34] | [.03, .36] | [.07, .39] | [.42, .66] | [.44, .67] | [.39, .64] | [.36, .62] | [.36, .62] | [.48, .70] | [.74, .86] | [.78, .89] |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15. host1.3y | 1.92 | 1.12 | .23\*\* | .20\* | .25\*\* | .26\*\* | .18\* | .51\*\* | .52\*\* | .48\*\* | .45\*\* | .62\*\* | .64\*\* | .50\*\* | .47\*\* | .51\*\* |  |  |  |  |  |  |  |
|  |  |  | [.06, .38] | [.03, .36] | [.08, .40] | [.09, .41] | [.01, .34] | [.37, .63] | [.38, .63] | [.34, .60] | [.31, .58] | [.50, .72] | [.52, .73] | [.36, .62] | [.33, .60] | [.37, .62] |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. host2.3y | 1.78 | 1.06 | .22\* | .18\* | .26\*\* | .24\*\* | .17\* | .44\*\* | .43\*\* | .46\*\* | .40\*\* | .48\*\* | .49\*\* | .43\*\* | .40\*\* | .47\*\* | .76\*\* |  |  |  |  |  |  |
|  |  |  | [.05, .38] | [.01, .34] | [.09, .41] | [.07, .39] | [.00, .33] | [.29, .56] | [.28, .56] | [.31, .58] | [.25, .54] | [.33, .60] | [.35, .61] | [.28, .56] | [.25, .54] | [.32, .59] | [.67, .82] |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17. host3.3y | 2.39 | 1.23 | .17\* | .21\* | .27\*\* | .27\*\* | .23\*\* | .61\*\* | .50\*\* | .48\*\* | .53\*\* | .52\*\* | .52\*\* | .45\*\* | .47\*\* | .47\*\* | .64\*\* | .62\*\* |  |  |  |  |  |
|  |  |  | [.00, .34] | [.04, .36] | [.10, .42] | [.10, .42] | [.06, .38] | [.49, .70] | [.36, .62] | [.34, .60] | [.40, .65] | [.38, .63] | [.38, .63] | [.30, .57] | [.32, .59] | [.32, .59] | [.53, .73] | [.51, .72] |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18. tipm.CONS1.3y | 5.30 | 1.22 | -.23\*\* | -.02 | -.03 | -.01 | -.12 | -.19\* | -.26\*\* | -.29\*\* | -.12 | -.20\* | -.28\*\* | -.28\*\* | -.21\* | -.29\*\* | -.19\* | -.18\* | -.03 |  |  |  |  |
|  |  |  | [-.39, -.06] | [-.19, .15] | [-.20, .14] | [-.19, .16] | [-.28, .05] | [-.35, -.02] | [-.41, -.09] | [-.44, -.13] | [-.29, .05] | [-.36, -.03] | [-.43, -.12] | [-.43, -.12] | [-.37, -.04] | [-.44, -.12] | [-.35, -.02] | [-.34, -.01] | [-.20, .14] |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19. tipm.CONS2.3y | 4.73 | 1.80 | -.16 | -.15 | -.18\* | -.14 | -.20\* | -.33\*\* | -.25\*\* | -.28\*\* | -.13 | -.29\*\* | -.34\*\* | -.30\*\* | -.28\*\* | -.30\*\* | -.34\*\* | -.26\*\* | -.24\*\* | .48\*\* |  |  |  |
|  |  |  | [-.33, .01] | [-.31, .02] | [-.34, -.01] | [-.30, .03] | [-.36, -.03] | [-.47, -.16] | [-.41, -.09] | [-.43, -.12] | [-.30, .04] | [-.44, -.12] | [-.48, -.18] | [-.45, -.14] | [-.43, -.12] | [-.45, -.13] | [-.48, -.18] | [-.42, -.10] | [-.39, -.07] | [.34, .61] |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20. mps.mean | 4.38 | 1.42 | .67\*\* | .79\*\* | .85\*\* | .89\*\* | .82\*\* | .34\*\* | .35\*\* | .40\*\* | .24\*\* | .31\*\* | .24\*\* | .21\* | .19\* | .26\*\* | .28\*\* | .27\*\* | .28\*\* | -.10 | -.21\* |  |  |
|  |  |  | [.57, .76] | [.72, .85] | [.79, .89] | [.85, .92] | [.76, .87] | [.18, .49] | [.19, .49] | [.25, .54] | [.07, .39] | [.15, .46] | [.08, .40] | [.04, .37] | [.02, .35] | [.09, .41] | [.11, .43] | [.10, .42] | [.12, .43] | [-.27, .07] | [-.37, -.04] |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21. negative.mean | 2.44 | 0.97 | .29\*\* | .28\*\* | .27\*\* | .31\*\* | .31\*\* | .81\*\* | .82\*\* | .78\*\* | .77\*\* | .80\*\* | .81\*\* | .81\*\* | .80\*\* | .79\*\* | .75\*\* | .67\*\* | .72\*\* | -.27\*\* | -.36\*\* | .36\*\* |  |
|  |  |  | [.12, .44] | [.11, .43] | [.11, .42] | [.15, .46] | [.15, .46] | [.74, .86] | [.75, .87] | [.71, .84] | [.69, .83] | [.72, .85] | [.74, .86] | [.74, .86] | [.73, .85] | [.71, .84] | [.66, .82] | [.56, .75] | [.63, .80] | [-.43, -.11] | [-.50, -.20] | [.20, .50] |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22. tipm.mean | 5.01 | 1.31 | -.22\* | -.11 | -.14 | -.10 | -.19\* | -.31\*\* | -.30\*\* | -.33\*\* | -.15 | -.29\*\* | -.36\*\* | -.34\*\* | -.29\*\* | -.34\*\* | -.32\*\* | -.27\*\* | -.18\* | .80\*\* | .91\*\* | -.19\* | -.37\*\* |
|  |  |  | [-.38, -.05] | [-.28, .06] | [-.30, .03] | [-.27, .07] | [-.35, -.02] | [-.46, -.15] | [-.44, -.13] | [-.48, -.17] | [-.31, .02] | [-.44, -.12] | [-.50, -.21] | [-.48, -.18] | [-.44, -.13] | [-.48, -.18] | [-.47, -.16] | [-.42, -.10] | [-.34, -.01] | [.73, .85] | [.88, .94] | [-.35, -.02] | [-.51, -.22] |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*Note.* *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. The confidence interval is a plausible range of population correlations that could have caused the sample correlation (Cumming, 2014). \* indicates *p* < .05. \*\* indicates *p* < .01.

Table 2A

*Regression results using Negative Affect as the criterion – Full model*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor | *b* | *b*  95% CI  [LL, UL] | *sr2* | *sr2*  95% CI  [LL, UL] | Fit |
| (Intercept) | 2.93\*\* | [2.08, 3.77] |  |  |  |
| sex1 | -0.58\*\* | [-0.99, -0.16] | .04 | [-.02, .10] |  |
| sex2 | -0.15 | [-1.87, 1.58] | .00 | [-.00, .00] |  |
| Conscientiousness | -0.26\*\* | [-0.37, -0.14] | .11 | [.02, .20] |  |
| SPP | 0.20\*\* | [0.10, 0.31] | .08 | [.00, .17] |  |
|  |  |  |  |  | *R2*  = .270\*\* |
|  |  |  |  |  | 95% CI[.13,.37] |
|  |  |  |  |  |  |

*Note.* A significant *b*-weight indicates the semi-partial correlation is also significant. *b* represents unstandardized regression weights. *sr2* represents the semi-partial correlation squared. *LL* and *UL* indicate the lower and upper limits of a confidence interval, respectively.  
\* indicates p < .05. \*\* indicates p < .01.

Table 3A

*Regression results using Negative Affect as the criterion – reduced model*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Predictor | *b* | *b*  95% CI  [LL, UL] | *sr2* | *sr2*  95% CI  [LL, UL] | Fit |
| (Intercept) | 4.06\*\* | [3.42, 4.70] |  |  |  |
| sex1 | -0.59\*\* | [-1.03, -0.15] | .04 | [-.02, .11] |  |
| sex2 | -0.54 | [-2.34, 1.27] | .00 | [-.01, .02] |  |
| Conscientiousness | -0.31\*\* | [-0.43, -0.18] | .16 | [.05, .27] |  |
|  |  |  |  |  | *R2*  = .186\*\* |
|  |  |  |  |  | 95% CI[.07,.29] |
|  |  |  |  |  |  |

*Note.* A significant *b*-weight indicates the semi-partial correlation is also significant. *b* represents unstandardized regression weights. *sr2* represents the semi-partial correlation squared. *LL* and *UL* indicate the lower and upper limits of a confidence interval, respectively.  
\* indicates p < .05. \*\* indicates p < .01.

**Appendix B**

Figures associated with analysis

A graph of different sizes and shapes

Description automatically generated with medium confidence

Figure 1B: Univariate relationships displayed for subscales of negative affect (negative.mean), conscientiousness (tipm.mean), socially prescribed perfectionism (mps.mean), and sex.

A graph of different sizes and colors

Description automatically generated with medium confidence

Figure 2B: Visualization of model where data for ‘other’ gender has been excluded.

A graph of negative results

Description automatically generated with medium confidence

Figure 3B: Multivariate relationship between negative affect, SPP, conscientiousness, and the effect of sex (excluding the ‘other’ data)

A graph with a line and dots

Description automatically generated

Figure 4B: Visualization between Negative Affect and Consciousness in a data set with only male particiapnts.

A graph of negative results

Description automatically generated with medium confidence

Figure 5B: Multivariate relationships between negative affect, SPP, conscientiousness, and the effect of sex whole data set.

A graph of a plot

Description automatically generated with medium confidence

Figure 6B: Visualization of model – Negative Affect as predicted by sex, conscientiousness, and SPP.

A screenshot of a graph

Description automatically generated

Figure 7B: Model 3 (left) and Model 4 (right) using a quadratic model to fit the data set.

A graph with a line and dots

Description automatically generated

Figure 8B: Added Variable plot (AVP) Showing the relationship between negative affect and SPP while adjusting for sex and conscientiousness.

A graph of different types of data

Description automatically generated with medium confidence

Figure 9B: Visualization of associations between Conscientiousness, sex, and SPP and its effects of predicting Negative Affect.

A diagram of a model

Description automatically generated with medium confidence

Figure 10B: Visualization of Reduced (left) and Full (right) models for H2.