OUTPUT L: SAS

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROCESS Procedure for SAS Version 3.0 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

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| Written by Andrew F. Hayes, Ph.D. http://www.afhayes.com |

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| Documentation available in Hayes (2018) www.guilford.com/p/hayes3 |

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| **Model and Variables** | |
| --- | --- |
| **Model:** | 4 |
| **Y:** | LIKING |
| **X:** | COND |
| **M:** | RESPAPPR |

| **Sample size:** |
| --- |
| 129 |

| **Coding of categorical X variable for analysis:** | | |
| --- | --- | --- |
| **COND** | **X1** | **X2** |
| 0 | 0 | 0 |
| 1 | 1 | 0 |
| 2 | 0 | 1 |

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| **OUTCOME VARIABLE:** |
| --- |
| RESPAPPR |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| 0.5106 | 0.2607 | 1.3649 | 22.2190 | 2.0000 | 126.0000 | 0.0000 |

| **Model** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **coeff** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **constant** | 3.8841 | 0.1825 | 21.2881 | 0.0000 | 3.5231 | 4.2452 |
| **X1** | 1.2612 | 0.2550 | 4.9456 | 0.0000 | 0.7565 | 1.7659 |
| **X2** | 1.6103 | 0.2522 | 6.3842 | 0.0000 | 1.1111 | 2.1095 |

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| **OUTCOME VARIABLE:** |
| --- |
| LIKING |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| 0.5031 | 0.2531 | 0.8427 | 14.1225 | 3.0000 | 125.0000 | 0.0000 |

| **Model** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **coeff** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **constant** | 3.7103 | 0.3074 | 12.0711 | 0.0000 | 3.1020 | 4.3187 |
| **X1** | -0.0037 | 0.2190 | -0.0169 | 0.9865 | -0.4371 | 0.4297 |
| **X2** | -0.2202 | 0.2280 | -0.9658 | 0.3360 | -0.6715 | 0.2310 |
| **RESPAPPR** | 0.4119 | 0.0700 | 5.8844 | 0.0000 | 0.2734 | 0.5504 |

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TOTAL EFFECT MODEL \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| **OUTCOME VARIABLE:** |
| --- |
| LIKING |

| **Model Summary** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **R-sq** | **MSE** | **F** | **df1** | **df2** | **p** |
| 0.2151 | 0.0463 | 1.0676 | 3.0552 | 2.0000 | 126.0000 | 0.0506 |

| **Model** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **coeff** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **constant** | 5.3102 | 0.1614 | 32.9083 | 0.0000 | 4.9909 | 5.6296 |
| **X1** | 0.5158 | 0.2255 | 2.2870 | 0.0239 | 0.0695 | 0.9621 |
| **X2** | 0.4431 | 0.2231 | 1.9863 | 0.0492 | 0.0016 | 0.8845 |

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y \*\*\*\*\*\*\*\*\*\*\* |

| **Relative total effects of X on Y:** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Effect** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **X1** | 0.5158 | 0.2255 | 2.2870 | 0.0239 | 0.0695 | 0.9621 |
| **X2** | 0.4431 | 0.2231 | 1.9863 | 0.0492 | 0.0016 | 0.8845 |

| **Omnibus test of total effect of X on Y:** | | | | |
| --- | --- | --- | --- | --- |
| **R2-chng** | **F** | **df1** | **df2** | **p** |
| 0.0463 | 3.0552 | 2.0000 | 126.0000 | 0.0506 |

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| **Relative direct effects of X on Y** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Effect** | **se** | **t** | **p** | **LLCI** | **ULCI** |
| **X1** | -0.0037 | 0.2190 | -0.0169 | 0.9865 | -0.4371 | 0.4297 |
| **X2** | -0.2202 | 0.2280 | -0.9658 | 0.3360 | -0.6715 | 0.2310 |

| **Omnibus test of direct effect of X on Y:** | | | | |
| --- | --- | --- | --- | --- |
| **R2-chng** | **F** | **df1** | **df2** | **p** |
| 0.0087 | 0.7286 | 2.0000 | 125.0000 | 0.4846 |

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| Relative indirect effects of X on Y |

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| COND | -> | RESPAPPR | -> | LIKING |

|  | | | | |
| --- | --- | --- | --- | --- |
|  | **Effect** | **BootSE** | **BootLLCI** | **BootULCI** |
| **X1** | 0.5195 | 0.1509 | 0.2471 | 0.8401 |
| **X2** | 0.6633 | 0.1657 | 0.3593 | 1.0059 |

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| \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ANALYSIS NOTES AND ERRORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

| **Level of confidence for all confidence intervals in output:** |
| --- |
| 95.0000 |

| **Number of bootstrap samples for percentile bootstrap confidence intervals:** |
| --- |
| 10000 |