Random Functional Intercept Model

|  | **EDF** | **Ref df** | **F** | **P-Value** |
| --- | --- | --- | --- | --- |
| s(sind) | 24.62 | 25.29 | 32.15 | **4.47e-149** |
| s(sind):College Architecture | 11.08 | 13.52 | 3.92 | **1.13e-06** |
| s(sind):College Arts and Letters | 13.84 | 16.81 | 3.57 | **1.02e-06** |
| s(sind):College Business | 2.53 | 2.88 | 9.42 | **3.65e-06** |
| s(sind):College Science | 10.84 | 13.22 | 7.23 | **1.72e-14** |
| s(sind):Gender Male | 9.49 | 11.58 | 15.20 | **3.76e-31** |
| s(sind):Race African American | 13.22 | 16.08 | 6.37 | **1.27e-14** |
| s(sind):Race Asian American | 4.10 | 4.89 | 42.91 | **1.43e-42** |
| s(sind):Race Foreign Student | 10.24 | 12.49 | 7.77 | **4.86e-15** |
| s(sind):Race Latino/a | 4.33 | 5.17 | 10.01 | **9.38e-10** |
| s(sind):Race Other | 9.18 | 11.10 | 3.47 | **7.01e-05** |
| s(sind):Income.50.000 - 150.000 | 7.78 | 9.46 | 16.37 | **5.18e-28** |
| s(sind):Income >150.000 | 6.44 | 7.80 | 27.74 | **9.83e-42** |
| s(sind):Weekday | 26.47 | 28.87 | 33.33 | **6.14e-182** |
| s(sind):BMI | 3.24 | 3.80 | 1.58 | 2.07e-01 |
| s(ID):Phi1 | 29.49 | 29.97 | 67.42 | **0.00e+00** |
| s(ID):Phi2 | 26.90 | 29.09 | 16.79 | **2.26e-84** |
| s(ID):Phi3 | 17.52 | 20.89 | 5.60 | **2.66e-15** |
| s(ID):Phi4 | 16.12 | 19.34 | 4.43 | **2.43e-10** |

Linear Model

|  | **Estimate** | **Std. Error** | **T value** | **P-Value** |
| --- | --- | --- | --- | --- |
| (Intercept) | 1.19e+04 | 1.45e+03 | 8.20 | **5.72e-15** |
| College Arts and Letters | 3.76e+02 | 7.86e+02 | 0.479 | 0.632 |
| College Business | 3.07e+02 | 7.83e+02 | 0.393 | 0.695 |
| College Engineering | 5.81e+02 | 7.48e+02 | 0.776 | 0.438 |
| College Science | 6.62e+02 | 7.55e+02 | 0.877 | 0.381 |
| Gender Male | -2.54e+02 | 3.01e+02 | -0.845 | 0.399 |
| Race Asian-American | -1.24e+02 | 7.85e+02 | -0.158 | 0.875 |
| Race Foreign Student | -48.1 | 8.91e+02 | -5.40e-02 | 0.957 |
| Race Latino/a | 41.3 | 7.38e+02 | 5.60e-02 | 0.955 |
| Race Other | 3.13e+02 | 2.70e+03 | 0.116 | 0.908 |
| Race White | 3.74e+02 | 6.73e+02 | 0.555 | 0.579 |
| Income < $50,000 | -4.66e+02 | 5.22e+02 | -0.892 | 0.373 |
| Income > $150,000 | 2.82e+02 | 3.19e+02 | 0.883 | 0.378 |
| BMI | -15.6 | 44.8 | -0.349 | 0.727 |

LM Contrasts

| **Contrast** | **Estimate** | **SE** | **DF** | **T ratio** | **P-value** |
| --- | --- | --- | --- | --- | --- |
| Engineering - Architecture | 644.7 | 748 | 322 | 0.862 | 0.910 |
| Engineering - Arts and Letters | 147.7 | 439 | 322 | 0.337 | 0.997 |
| Engineering - Business | 315.2 | 428 | 322 | 0.737 | 0.948 |
| Engineering - Science | -86.9 | 382 | 322 | -0.228 | 0.999 |
| Architecture - Arts and Letters | -497.1 | 784 | 322 | -0.634 | 0.969 |
| Architecture - Business | -329.5 | 780 | 322 | -0.422 | 0.993 |
| Architecture - Science | -731.6 | 757 | 322 | -0.967 | 0.870 |
| Arts and Letters - Business | 167.6 | 484 | 322 | 0.346 | 0.997 |
| Arts and Letters - Science | -234.6 | 442 | 322 | -0.530 | 0.984 |
| Business - Science | -402.2 | 434 | 322 | -0.927 | 0.886 |