**Correlations**

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| **Notes** |  |  |
| Output Created |  | 14-MAY-2024 08:03:14 |
| Comments |  |  |
| Input | Data | C:\Users\dorot\Desktop\MasterStudy\Statistics\DataAnalysis.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 17 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each pair of variables are based on all the cases with valid data for that pair. |
| Syntax |  | CORRELATIONS /VARIABLES=Mean\_Jerk\_Y Mean\_Jerk\_V Peaks Time Grasping\_E Grasping\_P Grasping\_D Trainings Level Experience Height Age /PRINT=TWOTAIL NOSIG FULL /MISSING=PAIRWISE. |
| Resources | Processor Time | 00:00:00,02 |
| Elapsed Time | 00:00:00,02 |

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| **Correlations** |  |  |  |  |  |  |
|  |  | Mean\_Jerk\_Y | Mean\_Jerk\_V | Peaks | Time | Grasping\_E |
| Mean\_Jerk\_Y | Pearson Correlation | 1 | ,831\*\* | ,375 | ,700\*\* | ,174 |
| Sig. (2-tailed) |  | <,001 | ,138 | ,002 | ,503 |
| N | 17 | 17 | 17 | 17 | 17 |
| Mean\_Jerk\_V | Pearson Correlation | ,831\*\* | 1 | ,732\*\* | ,806\*\* | ,527\* |
| Sig. (2-tailed) | <,001 |  | <,001 | <,001 | ,030 |
| N | 17 | 17 | 17 | 17 | 17 |
| Peaks | Pearson Correlation | ,375 | ,732\*\* | 1 | ,385 | ,517\* |
| Sig. (2-tailed) | ,138 | <,001 |  | ,126 | ,034 |
| N | 17 | 17 | 17 | 17 | 17 |
| Time | Pearson Correlation | ,700\*\* | ,806\*\* | ,385 | 1 | ,509\* |
| Sig. (2-tailed) | ,002 | <,001 | ,126 |  | ,037 |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_E | Pearson Correlation | ,174 | ,527\* | ,517\* | ,509\* | 1 |
| Sig. (2-tailed) | ,503 | ,030 | ,034 | ,037 |  |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_P | Pearson Correlation | ,307 | ,328 | ,185 | ,522\* | ,212 |
| Sig. (2-tailed) | ,230 | ,199 | ,476 | ,032 | ,414 |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_D | Pearson Correlation | ,136 | ,341 | ,414 | ,262 | ,187 |
| Sig. (2-tailed) | ,602 | ,180 | ,099 | ,310 | ,473 |
| N | 17 | 17 | 17 | 17 | 17 |
| Trainings | Pearson Correlation | -,120 | ,002 | ,139 | -,206 | -,096 |
| Sig. (2-tailed) | ,648 | ,993 | ,595 | ,427 | ,715 |
| N | 17 | 17 | 17 | 17 | 17 |
| Level | Pearson Correlation | -,145 | -,096 | ,247 | -,345 | -,255 |
| Sig. (2-tailed) | ,578 | ,713 | ,340 | ,176 | ,323 |
| N | 17 | 17 | 17 | 17 | 17 |
| Experience | Pearson Correlation | -,359 | -,533\* | -,303 | -,640\*\* | -,294 |
| Sig. (2-tailed) | ,157 | ,028 | ,237 | ,006 | ,253 |
| N | 17 | 17 | 17 | 17 | 17 |
| Height | Pearson Correlation | -,306 | -,121 | ,170 | -,228 | ,023 |
| Sig. (2-tailed) | ,232 | ,644 | ,515 | ,379 | ,931 |
| N | 17 | 17 | 17 | 17 | 17 |
| Age | Pearson Correlation | -,201 | -,385 | -,305 | -,378 | -,115 |
| Sig. (2-tailed) | ,440 | ,127 | ,233 | ,135 | ,659 |
| N | 17 | 17 | 17 | 17 | 17 |

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| **Correlations** |  |  |  |  |  |  |
|  |  | Grasping\_P | Grasping\_D | Trainings | Level | Experience |
| Mean\_Jerk\_Y | Pearson Correlation | ,307 | ,136 | -,120 | -,145 | -,359 |
| Sig. (2-tailed) | ,230 | ,602 | ,648 | ,578 | ,157 |
| N | 17 | 17 | 17 | 17 | 17 |
| Mean\_Jerk\_V | Pearson Correlation | ,328 | ,341 | ,002 | -,096 | -,533\* |
| Sig. (2-tailed) | ,199 | ,180 | ,993 | ,713 | ,028 |
| N | 17 | 17 | 17 | 17 | 17 |
| Peaks | Pearson Correlation | ,185 | ,414 | ,139 | ,247 | -,303 |
| Sig. (2-tailed) | ,476 | ,099 | ,595 | ,340 | ,237 |
| N | 17 | 17 | 17 | 17 | 17 |
| Time | Pearson Correlation | ,522\* | ,262 | -,206 | -,345 | -,640\*\* |
| Sig. (2-tailed) | ,032 | ,310 | ,427 | ,176 | ,006 |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_E | Pearson Correlation | ,212 | ,187 | -,096 | -,255 | -,294 |
| Sig. (2-tailed) | ,414 | ,473 | ,715 | ,323 | ,253 |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_P | Pearson Correlation | 1 | ,494\* | -,350 | -,482 | -,079 |
| Sig. (2-tailed) |  | ,044 | ,169 | ,050 | ,762 |
| N | 17 | 17 | 17 | 17 | 17 |
| Grasping\_D | Pearson Correlation | ,494\* | 1 | -,014 | -,102 | -,098 |
| Sig. (2-tailed) | ,044 |  | ,959 | ,697 | ,709 |
| N | 17 | 17 | 17 | 17 | 17 |
| Trainings | Pearson Correlation | -,350 | -,014 | 1 | ,571\* | -,072 |
| Sig. (2-tailed) | ,169 | ,959 |  | ,017 | ,784 |
| N | 17 | 17 | 17 | 17 | 17 |
| Level | Pearson Correlation | -,482 | -,102 | ,571\* | 1 | ,070 |
| Sig. (2-tailed) | ,050 | ,697 | ,017 |  | ,789 |
| N | 17 | 17 | 17 | 17 | 17 |
| Experience | Pearson Correlation | -,079 | -,098 | -,072 | ,070 | 1 |
| Sig. (2-tailed) | ,762 | ,709 | ,784 | ,789 |  |
| N | 17 | 17 | 17 | 17 | 17 |
| Height | Pearson Correlation | -,672\*\* | -,102 | ,195 | ,339 | -,145 |
| Sig. (2-tailed) | ,003 | ,698 | ,453 | ,183 | ,578 |
| N | 17 | 17 | 17 | 17 | 17 |
| Age | Pearson Correlation | ,014 | -,298 | -,296 | -,283 | ,529\* |
| Sig. (2-tailed) | ,959 | ,245 | ,248 | ,272 | ,029 |
| N | 17 | 17 | 17 | 17 | 17 |

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| **Correlations** |  |  |  |
|  |  | Height | Age |
| Mean\_Jerk\_Y | Pearson Correlation | -,306 | -,201 |
| Sig. (2-tailed) | ,232 | ,440 |
| N | 17 | 17 |
| Mean\_Jerk\_V | Pearson Correlation | -,121 | -,385 |
| Sig. (2-tailed) | ,644 | ,127 |
| N | 17 | 17 |
| Peaks | Pearson Correlation | ,170 | -,305 |
| Sig. (2-tailed) | ,515 | ,233 |
| N | 17 | 17 |
| Time | Pearson Correlation | -,228 | -,378 |
| Sig. (2-tailed) | ,379 | ,135 |
| N | 17 | 17 |
| Grasping\_E | Pearson Correlation | ,023 | -,115 |
| Sig. (2-tailed) | ,931 | ,659 |
| N | 17 | 17 |
| Grasping\_P | Pearson Correlation | -,672\*\* | ,014 |
| Sig. (2-tailed) | ,003 | ,959 |
| N | 17 | 17 |
| Grasping\_D | Pearson Correlation | -,102 | -,298 |
| Sig. (2-tailed) | ,698 | ,245 |
| N | 17 | 17 |
| Trainings | Pearson Correlation | ,195 | -,296 |
| Sig. (2-tailed) | ,453 | ,248 |
| N | 17 | 17 |
| Level | Pearson Correlation | ,339 | -,283 |
| Sig. (2-tailed) | ,183 | ,272 |
| N | 17 | 17 |
| Experience | Pearson Correlation | -,145 | ,529\* |
| Sig. (2-tailed) | ,578 | ,029 |
| N | 17 | 17 |
| Height | Pearson Correlation | 1 | -,175 |
| Sig. (2-tailed) |  | ,502 |
| N | 17 | 17 |
| Age | Pearson Correlation | -,175 | 1 |
| Sig. (2-tailed) | ,502 |  |
| N | 17 | 17 |

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| \*\*. Correlation is significant at the 0.01 level (2-tailed). |  |  |  |
| \*. Correlation is significant at the 0.05 level (2-tailed). |  |  |  |

**Nonparametric Correlations**

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| **Notes** |  |  |
| Output Created |  | 14-MAY-2024 08:03:14 |
| Comments |  |  |
| Input | Data | C:\Users\dorot\Desktop\MasterStudy\Statistics\DataAnalysis.sav |
| Active Dataset | DataSet1 |
| Filter | <none> |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 17 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| Cases Used | Statistics for each pair of variables are based on all the cases with valid data for that pair. |
| Syntax |  | NONPAR CORR /VARIABLES=Mean\_Jerk\_Y Mean\_Jerk\_V Peaks Time Grasping\_E Grasping\_P Grasping\_D Trainings Level Experience Height Age /PRINT=SPEARMAN TWOTAIL NOSIG FULL /MISSING=PAIRWISE. |
| Resources | Processor Time | 00:00:00,02 |
| Elapsed Time | 00:00:00,03 |
| Number of Cases Allowed | 209715 casesa |

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| --- | --- | --- |
| a. Based on availability of workspace memory |  |  |

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| **Correlations** |  |  |  |  |  |  |
|  |  |  | Mean\_Jerk\_Y | Mean\_Jerk\_V | Peaks | Time |
| Spearman's rho | Mean\_Jerk\_Y | Correlation Coefficient | 1,000 | ,951\*\* | ,722\*\* | ,816\*\* |
| Sig. (2-tailed) | . | <,001 | ,001 | <,001 |
| N | 17 | 17 | 17 | 17 |
| Mean\_Jerk\_V | Correlation Coefficient | ,951\*\* | 1,000 | ,744\*\* | ,855\*\* |
| Sig. (2-tailed) | <,001 | . | <,001 | <,001 |
| N | 17 | 17 | 17 | 17 |
| Peaks | Correlation Coefficient | ,722\*\* | ,744\*\* | 1,000 | ,490\* |
| Sig. (2-tailed) | ,001 | <,001 | . | ,046 |
| N | 17 | 17 | 17 | 17 |
| Time | Correlation Coefficient | ,816\*\* | ,855\*\* | ,490\* | 1,000 |
| Sig. (2-tailed) | <,001 | <,001 | ,046 | . |
| N | 17 | 17 | 17 | 17 |
| Grasping\_E | Correlation Coefficient | ,617\*\* | ,540\* | ,341 | ,555\* |
| Sig. (2-tailed) | ,008 | ,025 | ,180 | ,021 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_P | Correlation Coefficient | ,444 | ,444 | ,257 | ,588\* |
| Sig. (2-tailed) | ,074 | ,074 | ,320 | ,013 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_D | Correlation Coefficient | ,252 | ,348 | ,268 | ,295 |
| Sig. (2-tailed) | ,328 | ,171 | ,299 | ,250 |
| N | 17 | 17 | 17 | 17 |
| Trainings | Correlation Coefficient | ,070 | -,001 | -,046 | -,146 |
| Sig. (2-tailed) | ,789 | ,996 | ,859 | ,577 |
| N | 17 | 17 | 17 | 17 |
| Level | Correlation Coefficient | ,033 | -,023 | ,175 | -,289 |
| Sig. (2-tailed) | ,899 | ,930 | ,501 | ,260 |
| N | 17 | 17 | 17 | 17 |
| Experience | Correlation Coefficient | -,446 | -,577\* | -,287 | -,655\*\* |
| Sig. (2-tailed) | ,073 | ,015 | ,264 | ,004 |
| N | 17 | 17 | 17 | 17 |
| Height | Correlation Coefficient | -,162 | -,122 | ,101 | -,295 |
| Sig. (2-tailed) | ,534 | ,642 | ,698 | ,250 |
| N | 17 | 17 | 17 | 17 |
| Age | Correlation Coefficient | -,422 | -,418 | -,199 | -,440 |
| Sig. (2-tailed) | ,092 | ,095 | ,445 | ,077 |
| N | 17 | 17 | 17 | 17 |

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| **Correlations** |  |  |  |  |  |  |
|  |  |  | Grasping\_E | Grasping\_P | Grasping\_D | Trainings |
| Spearman's rho | Mean\_Jerk\_Y | Correlation Coefficient | ,617\*\* | ,444 | ,252 | ,070 |
| Sig. (2-tailed) | ,008 | ,074 | ,328 | ,789 |
| N | 17 | 17 | 17 | 17 |
| Mean\_Jerk\_V | Correlation Coefficient | ,540\* | ,444 | ,348 | -,001 |
| Sig. (2-tailed) | ,025 | ,074 | ,171 | ,996 |
| N | 17 | 17 | 17 | 17 |
| Peaks | Correlation Coefficient | ,341 | ,257 | ,268 | -,046 |
| Sig. (2-tailed) | ,180 | ,320 | ,299 | ,859 |
| N | 17 | 17 | 17 | 17 |
| Time | Correlation Coefficient | ,555\* | ,588\* | ,295 | -,146 |
| Sig. (2-tailed) | ,021 | ,013 | ,250 | ,577 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_E | Correlation Coefficient | 1,000 | ,273 | -,014 | -,018 |
| Sig. (2-tailed) | . | ,289 | ,958 | ,946 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_P | Correlation Coefficient | ,273 | 1,000 | ,488\* | -,372 |
| Sig. (2-tailed) | ,289 | . | ,047 | ,141 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_D | Correlation Coefficient | -,014 | ,488\* | 1,000 | -,035 |
| Sig. (2-tailed) | ,958 | ,047 | . | ,895 |
| N | 17 | 17 | 17 | 17 |
| Trainings | Correlation Coefficient | -,018 | -,372 | -,035 | 1,000 |
| Sig. (2-tailed) | ,946 | ,141 | ,895 | . |
| N | 17 | 17 | 17 | 17 |
| Level | Correlation Coefficient | -,180 | -,557\* | -,180 | ,606\*\* |
| Sig. (2-tailed) | ,488 | ,020 | ,490 | ,010 |
| N | 17 | 17 | 17 | 17 |
| Experience | Correlation Coefficient | -,252 | -,137 | -,040 | -,049 |
| Sig. (2-tailed) | ,328 | ,601 | ,880 | ,853 |
| N | 17 | 17 | 17 | 17 |
| Height | Correlation Coefficient | -,132 | -,531\* | -,025 | ,309 |
| Sig. (2-tailed) | ,615 | ,028 | ,924 | ,227 |
| N | 17 | 17 | 17 | 17 |
| Age | Correlation Coefficient | -,098 | ,057 | -,188 | -,390 |
| Sig. (2-tailed) | ,707 | ,828 | ,469 | ,122 |
| N | 17 | 17 | 17 | 17 |

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| **Correlations** |  |  |  |  |  |  |
|  |  |  | Level | Experience | Height | Age |
| Spearman's rho | Mean\_Jerk\_Y | Correlation Coefficient | ,033 | -,446 | -,162 | -,422 |
| Sig. (2-tailed) | ,899 | ,073 | ,534 | ,092 |
| N | 17 | 17 | 17 | 17 |
| Mean\_Jerk\_V | Correlation Coefficient | -,023 | -,577\* | -,122 | -,418 |
| Sig. (2-tailed) | ,930 | ,015 | ,642 | ,095 |
| N | 17 | 17 | 17 | 17 |
| Peaks | Correlation Coefficient | ,175 | -,287 | ,101 | -,199 |
| Sig. (2-tailed) | ,501 | ,264 | ,698 | ,445 |
| N | 17 | 17 | 17 | 17 |
| Time | Correlation Coefficient | -,289 | -,655\*\* | -,295 | -,440 |
| Sig. (2-tailed) | ,260 | ,004 | ,250 | ,077 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_E | Correlation Coefficient | -,180 | -,252 | -,132 | -,098 |
| Sig. (2-tailed) | ,488 | ,328 | ,615 | ,707 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_P | Correlation Coefficient | -,557\* | -,137 | -,531\* | ,057 |
| Sig. (2-tailed) | ,020 | ,601 | ,028 | ,828 |
| N | 17 | 17 | 17 | 17 |
| Grasping\_D | Correlation Coefficient | -,180 | -,040 | -,025 | -,188 |
| Sig. (2-tailed) | ,490 | ,880 | ,924 | ,469 |
| N | 17 | 17 | 17 | 17 |
| Trainings | Correlation Coefficient | ,606\*\* | -,049 | ,309 | -,390 |
| Sig. (2-tailed) | ,010 | ,853 | ,227 | ,122 |
| N | 17 | 17 | 17 | 17 |
| Level | Correlation Coefficient | 1,000 | ,197 | ,348 | -,336 |
| Sig. (2-tailed) | . | ,449 | ,171 | ,187 |
| N | 17 | 17 | 17 | 17 |
| Experience | Correlation Coefficient | ,197 | 1,000 | -,050 | ,328 |
| Sig. (2-tailed) | ,449 | . | ,849 | ,198 |
| N | 17 | 17 | 17 | 17 |
| Height | Correlation Coefficient | ,348 | -,050 | 1,000 | -,298 |
| Sig. (2-tailed) | ,171 | ,849 | . | ,245 |
| N | 17 | 17 | 17 | 17 |
| Age | Correlation Coefficient | -,336 | ,328 | -,298 | 1,000 |
| Sig. (2-tailed) | ,187 | ,198 | ,245 | . |
| N | 17 | 17 | 17 | 17 |

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| \*\*. Correlation is significant at the 0.01 level (2-tailed). |  |  |  |  |  |  |
| \*. Correlation is significant at the 0.05 level (2-tailed). |  |  |  |  |  |  |