

*RAILS
Institution #5 Data Analysis*
Bei Yu & Megan Oakleaf

Table: librarian: 1; faculty: 2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| institute | A | B | C | D | E | F | G | H | J | K | L |
| 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 |

1. **Kripendorff’s Alpha measure:**

All judges:

|  |  |
| --- | --- |
|  | Kripendorff’s Alpha |
| criterion | All judges | Librarian(1) | Faculty(2) |
| 124042 | .1542 | .1280 | n/a |
| 124043 | .2217 | .2316 | n/a |
| 124044 | .2415 | .2273 | n/a |
| Total score | .2241 | .2046 | n/a |

1. **Cohen’s Kappa**

**pairwise Kappa agreement on criterion code 124042:**

Mean Kappa for all judges=.125

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.083 | -.103 | -.104 | .021 | .048 | .037 | -.051 | .034 | .011 | -.037 |
| 5B |  | .111 | .271 | .273 | .154 | .313 | .099 | .154 | .308 | .141 |
| 5C |  |  | .203 | .017 | .078 | .135 | .224 | .181 | .242 | .167 |
| 5D |  |  |  | .055 | .001 | .142 | .033 | .164 | .229 | .077 |
| 5E |  |  |  |  | .030 | .266 | .156 | .204 | .160 | .194 |
| 5F |  |  |  |  |  | .140 | .039 | .110 | .079 | .119 |
| 5G |  |  |  |  |  |  | .150 | .116 | .257 | .122 |
| 5H |  |  |  |  |  |  |  | .088 | .184 | .119 |
| 5J |  |  |  |  |  |  |  |  | .277 | .134 |
| 5K |  |  |  |  |  |  |  |  |  | .376 |

Mean Kappa for librarian=.105

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.083 | -.103 | -.104 | .021 | .048 | .037 | -.051 | .034 | -.037 |
| 5B |  | .111 | .271 | .273 | .154 | .313 | .099 | .154 | .141 |
| 5C |  |  | .203 | .017 | .078 | .135 | .224 | .181 | .167 |
| 5D |  |  |  | .055 | .001 | .142 | .033 | .164 | .077 |
| 5E |  |  |  |  | .030 | .266 | .156 | .204 | .194 |
| 5F |  |  |  |  |  | .140 | .039 | .110 | .119 |
| 5G |  |  |  |  |  |  | .150 | .116 | .122 |
| 5H |  |  |  |  |  |  |  | .088 | .119 |
| 5J |  |  |  |  |  |  |  |  | .134 |

**pairwise Kappa agreement on criterion code 124043:**

Mean Kappa for all judges=.155

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.031 | -.032 | .011 | -.119 | -.034 | -.067 | -.049 | -.050 | -.109 | .008 |
| 5B |  | .160 | .054 | .380 | .372 | .261 | .337 | .105 | .201 | .323 |
| 5C |  |  | .114 | .109 | .169 | .090 | .268 | .037 | .058 | .239 |
| 5D |  |  |  | .195 | .095 | .149 | .139 | .076 | .117 | .106 |
| 5E |  |  |  |  | .337 | .411 | .419 | .087 | .127 | .468 |
| 5F |  |  |  |  |  | .360 | .191 | .032 | .077 | .125 |
| 5G |  |  |  |  |  |  | .338 | .018 | .077 | .392 |
| 5H |  |  |  |  |  |  |  | .088 | .223 | .381 |
| 5J |  |  |  |  |  |  |  |  | .563 | .032 |
| 5K |  |  |  |  |  |  |  |  |  | .090 |

Mean Kappa for librarian=.158

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.031 | -.032 | .011 | -.119 | -.034 | -.067 | -.049 | -.050 | .008 |
| 5B |  | .160 | .054 | .380 | .372 | .261 | .337 | .105 | .323 |
| 5C |  |  | .114 | .109 | .169 | .090 | .268 | .037 | .239 |
| 5D |  |  |  | .195 | .095 | .149 | .139 | .076 | .106 |
| 5E |  |  |  |  | .337 | .411 | .419 | .087 | .468 |
| 5F |  |  |  |  |  | .360 | .191 | .032 | .125 |
| 5G |  |  |  |  |  |  | .338 | .018 | .392 |
| 5H |  |  |  |  |  |  |  | .088 | .381 |
| 5J |  |  |  |  |  |  |  |  | .032 |

**pairwise Kappa agreement on criterion code 124044:**

Mean Kappa for all judges=.173

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.076 | -.152 | .062 | -.028 | -.059 | -.060 | -.087 | -.053 | .004 | -.019 |
| 5B |  | .225 | .049 | .317 | .298 | .355 | .226 | .210 | .345 | .374 |
| 5C |  |  | .046 | .201 | .302 | .309 | .212 | .121 | .380 | .176 |
| 5D |  |  |  | .076 | .010 | .040 | .178 | .058 | .027 | .042 |
| 5E |  |  |  |  | .173 | .250 | .373 | .076 | .125 | .260 |
| 5F |  |  |  |  |  | .360 | .176 | .292 | .499 | .337 |
| 5G |  |  |  |  |  |  | .151 | .349 | .374 | .284 |
| 5H |  |  |  |  |  |  |  | .079 | .115 | .238 |
| 5J |  |  |  |  |  |  |  |  | .287 | .235 |
| 5K |  |  |  |  |  |  |  |  |  | .351 |

Mean Kappa for librarian=.155

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.076 | -.152 | .062 | -.028 | -.059 | -.060 | -.087 | -.053 | -.019 |
| 5B |  | .225 | .049 | .317 | .298 | .355 | .226 | .210 | .374 |
| 5C |  |  | .046 | .201 | .302 | .309 | .212 | .121 | .176 |
| 5D |  |  |  | .076 | .010 | .040 | .178 | .058 | .042 |
| 5E |  |  |  |  | .173 | .250 | .373 | .076 | .260 |
| 5F |  |  |  |  |  | .360 | .176 | .292 | .337 |
| 5G |  |  |  |  |  |  | .151 | .349 | .284 |
| 5H |  |  |  |  |  |  |  | .079 | .238 |
| 5J |  |  |  |  |  |  |  |  | .235 |

**Summary of Cohen’s Kappa**

|  |  |  |  |
| --- | --- | --- | --- |
| Criterion | Librarian(1) | Faculty(2) | All |
| 124042 | .105 | n/a | .125 |
| 124043 | .158 | n/a | .155 |
| 124044 | .155 | n/a | .173 |
| Total  | n/a | n/a | n/a |

1. **Pearson’s correlation**

**Pairwise correlation regarding criterion code “124042”**

Mean correlation for all judges=.229

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.095 | -.380\*\* | -.055 | -.038 | .054 | -.044 | -.272\*\* | -.185 | -.005 | -.031 |
| 5B |  | .141 | .298\*\* | .394\*\* | .263\*\* | .495\*\* | .273\*\* | .237\* | .413\*\* | .291\*\* |
| 5C |  |  | .301\*\* | .098 | .120 | .156 | .329\*\* | .380\*\* | .328\*\* | .316\*\* |
| 5D |  |  |  | .324\*\* | .047 | .405\*\* | .252\* | .451\*\* | .401\*\* | .345\*\* |
| 5E |  |  |  |  | .167 | .405\*\* | .342\*\* | .307\*\* | .320\*\* | .242\* |
| 5F |  |  |  |  |  | .285\*\* | .235\* | .216\* | .314\*\* | .266\*\* |
| 5G |  |  |  |  |  |  | .371\*\* | .295\*\* | .435\*\* | .303\*\* |
| 5H |  |  |  |  |  |  |  | .236\* | .330\*\* | .263\*\* |
| 5J |  |  |  |  |  |  |  |  | .413\*\* | .241\* |
| 5K |  |  |  |  |  |  |  |  |  | .583\*\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

Mean correlation for librarian=.201

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.095 | -.380\*\* | -.055 | -.038 | .054 | -.044 | -.272\*\* | -.185 | -.031 |
| 5B |  | .141 | .298\*\* | .394\*\* | .263\*\* | .495\*\* | .273\*\* | .237\* | .291\*\* |
| 5C |  |  | .301\*\* | .098 | .120 | .156 | .329\*\* | .380\*\* | .316\*\* |
| 5D |  |  |  | .324\*\* | .047 | .405\*\* | .252\* | .451\*\* | .345\*\* |
| 5E |  |  |  |  | .167 | .405\*\* | .342\*\* | .307\*\* | .242\* |
| 5F |  |  |  |  |  | .285\*\* | .235\* | .216\* | .266\*\* |
| 5G |  |  |  |  |  |  | .371\*\* | .295\*\* | .303\*\* |
| 5H |  |  |  |  |  |  |  | .236\* | .263\*\* |
| 5J |  |  |  |  |  |  |  |  | .241\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

**Pairwise correlation regarding criterion code “124043”**

Mean correlation for all judges=.316

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.183 | -.142 | -.011 | -.037 | -.174 | -.201\* | -.182 | -.077 | -.064 | -.018 |
| 5B |  | .268\*\* | .459\*\* | .467\*\* | .527\*\* | .506\*\* | .530\*\* | .270\*\* | .427\*\* | .498\*\* |
| 5C |  |  | .316\*\* | .200\* | .275\*\* | .330\*\* | .364\*\* | .166 | .188 | .472\*\* |
| 5D |  |  |  | .539\*\* | .385\*\* | .394\*\* | .422\*\* | .268\*\* | .283\*\* | .413\*\* |
| 5E |  |  |  |  | .598\*\* | .627\*\* | .491\*\* | .340\*\* | .402\*\* | .562\*\* |
| 5F |  |  |  |  |  | .590\*\* | .502\*\* | .341\*\* | .470\*\* | .439\*\* |
| 5G |  |  |  |  |  |  | .522\*\* | .221\* | .349\*\* | .628\*\* |
| 5H |  |  |  |  |  |  |  | .268\*\* | .432\*\* | .569\*\* |
| 5J |  |  |  |  |  |  |  |  | .616\*\* | .199\* |
| 5K |  |  |  |  |  |  |  |  |  | .362\*\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

Mean correlation for librarian=.310

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.183 | -.142 | -.011 | -.037 | -.174 | -.201\* | -.182 | -.077 | -.018 |
| 5B |  | .268\*\* | .459\*\* | .467\*\* | .527\*\* | .506\*\* | .530\*\* | .270\*\* | .498\*\* |
| 5C |  |  | .316\*\* | .200\* | .275\*\* | .330\*\* | .364\*\* | .166 | .472\*\* |
| 5D |  |  |  | .539\*\* | .385\*\* | .394\*\* | .422\*\* | .268\*\* | .413\*\* |
| 5E |  |  |  |  | .598\*\* | .627\*\* | .491\*\* | .340\*\* | .562\*\* |
| 5F |  |  |  |  |  | .590\*\* | .502\*\* | .341\*\* | .439\*\* |
| 5G |  |  |  |  |  |  | .522\*\* | .221\* | .628\*\* |
| 5H |  |  |  |  |  |  |  | .268\*\* | .569\*\* |
| 5J |  |  |  |  |  |  |  |  | .199\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

**Pairwise correlation regarding criterion code “124044”**

Mean correlation for all judges=.315

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | .010 | -.249\* | -.089 | -.119 | -.068 | -.099 | -.206\* | -.122 | -.119 | -.089 |
| 5B |  | .402\*\* | .311\*\* | .451\*\* | .461\*\* | .488\*\* | .460\*\* | .273\*\* | .555\*\* | .495\*\* |
| 5C |  |  | .245\* | .337\*\* | .366\*\* | .324\*\* | .348\*\* | .329\*\* | .486\*\* | .326\*\* |
| 5D |  |  |  | .238\* | .249\* | .248\* | .398\*\* | .174 | .252\* | .175 |
| 5E |  |  |  |  | .552\*\* | .502\*\* | .594\*\* | .390\*\* | .481\*\* | .483\*\* |
| 5F |  |  |  |  |  | .482\*\* | .529\*\* | .396\*\* | .611\*\* | .508\*\* |
| 5G |  |  |  |  |  |  | .472\*\* | .478\*\* | .533\*\* | .433\*\* |
| 5H |  |  |  |  |  |  |  | .390\*\* | .498\*\* | .464\*\* |
| 5J |  |  |  |  |  |  |  |  | .482\*\* | .331\*\* |
| 5K |  |  |  |  |  |  |  |  |  | .479\*\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

Mean correlation for librarian=.290

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | .010 | -.249\* | -.089 | -.119 | -.068 | -.099 | -.206\* | -.122 | -.089 |
| 5B |  | .402\*\* | .311\*\* | .451\*\* | .461\*\* | .488\*\* | .460\*\* | .273\*\* | .495\*\* |
| 5C |  |  | .245\* | .337\*\* | .366\*\* | .324\*\* | .348\*\* | .329\*\* | .326\*\* |
| 5D |  |  |  | .238\* | .249\* | .248\* | .398\*\* | .174 | .175 |
| 5E |  |  |  |  | .552\*\* | .502\*\* | .594\*\* | .390\*\* | .483\*\* |
| 5F |  |  |  |  |  | .482\*\* | .529\*\* | .396\*\* | .508\*\* |
| 5G |  |  |  |  |  |  | .472\*\* | .478\*\* | .433\*\* |
| 5H |  |  |  |  |  |  |  | .390\*\* | .464\*\* |
| 5J |  |  |  |  |  |  |  |  | .331\*\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

**Pairwise correlation regarding total scores**

Mean correlation for all judges=.314

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5K | 5L |
| 5A | -.192 | -.393\*\* | -.072 | -.162 | -.113 | -.257\*\* | -.300\*\* | -.197\* | -.122 | -.117 |
| 5B |  | .246\* | .428\*\* | .469\*\* | .460\*\* | .561\*\* | .455\*\* | .190 | .484\*\* | .540\*\* |
| 5C |  |  | .342\*\* | .257\*\* | .225\* | .381\*\* | .415\*\* | .315\*\* | .370\*\* | .453\*\* |
| 5D |  |  |  | .381\*\* | .287\*\* | .380\*\* | .461\*\* | .287\*\* | .342\*\* | .387\*\* |
| 5E |  |  |  |  | .536\*\* | .630\*\* | .551\*\* | .400\*\* | .522\*\* | .548\*\* |
| 5F |  |  |  |  |  | .505\*\* | .433\*\* | .282\*\* | .532\*\* | .412\*\* |
| 5G |  |  |  |  |  |  | .501\*\* | .422\*\* | .569\*\* | .578\*\* |
| 5H |  |  |  |  |  |  |  | .307\*\* | .511\*\* | .577\*\* |
| 5J |  |  |  |  |  |  |  |  | .496\*\* | .256\* |
| 5K |  |  |  |  |  |  |  |  |  | .520\*\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

Mean correlation for librarian=.290

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5B | 5C | 5D | 5E | 5F | 5G | 5H | 5J | 5L |
| 5A | -.192 | -.393\*\* | -.072 | -.162 | -.113 | -.257\*\* | -.300\*\* | -.197\* | -.117 |
| 5B |  | .246\* | .428\*\* | .469\*\* | .460\*\* | .561\*\* | .455\*\* | .190 | .540\*\* |
| 5C |  |  | .342\*\* | .257\*\* | .225\* | .381\*\* | .415\*\* | .315\*\* | .453\*\* |
| 5D |  |  |  | .381\*\* | .287\*\* | .380\*\* | .461\*\* | .287\*\* | .387\*\* |
| 5E |  |  |  |  | .536\*\* | .630\*\* | .551\*\* | .400\*\* | .548\*\* |
| 5F |  |  |  |  |  | .505\*\* | .433\*\* | .282\*\* | .412\*\* |
| 5G |  |  |  |  |  |  | .501\*\* | .422\*\* | .578\*\* |
| 5H |  |  |  |  |  |  |  | .307\*\* | .577\*\* |
| 5J |  |  |  |  |  |  |  |  | .256\* |

\*\*. Correlation is significant at the 0.01level

\*. Correlation is significant at the 0.05 level

**Summary of Mean Pearson’s Correlation**

|  |  |  |  |
| --- | --- | --- | --- |
| Criterion | Librarian(1) | Faculty(2) | All judges |
| 124042 | .201 | n/a | .229 |
| 124043 | .310 | n/a | .316 |
| 124044 | .290 | n/a | .315 |
| Total  | .290 | n/a | .314 |