

*RAILS
Institution #9 Data Analysis*
Bei Yu & Megan Oakleaf

Table: librarian: 1; faculty: 2

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| institute | A | B | C | D | E | F | G | H | J | K | L |
| 9 | 1 | 2 | 2 | 2 | 1 | 1\* | 1 | 1 | 1 | 2 | 2 |

\*left early, no scores recorded

1. **Kripendorff’s Alpha measure:**

|  |  |  |  |
| --- | --- | --- | --- |
| criterion | All judges | All librarians | All faculty |
| 16868 | .3473 | .5000 | .2518 |
| 16869 | .3669 | .4151 | .2409 |
| 16870 | .5597 | .6656 | .4801 |
| 16871 | .5478 | .6684 | .5320 |
| Total score | .4440 | .4211 | .4623 |

1. **Cohen’s Kappa**

**pairwise Kappa agreement on criterion code 16868:**

Mean Kappa for all judges=.259

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .204 | .056 | .201 | .316 | .309 | .303 | .318 | .324 | .286 |
| 9B |  | .138 | .269 | .068 | .236 | .266 | .215 | .051 | .165 |
| 9C |  |  | .233 | .205 | .361 | .375 | .243 | .195 | .129 |
| 9D |  |  |  | .147 | .287 | .362 | .414 | .207 | .260 |
| 9E |  |  |  |  | .338 | .337 | .294 | .313 | .072 |
| 9G |  |  |  |  |  | .525 | .551 | .371 | .079 |
| 9H |  |  |  |  |  |  | .457 | .401 | .107 |
| 9J |  |  |  |  |  |  |  | .332 | .221 |
| 9K |  |  |  |  |  |  |  |  | .110 |

Mean Kappa for librarian=.375

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .316 | .309 | .303 | .318 |
| 9E |  | .338 | .337 | .294 |
| 9G |  |  | .525 | .551 |
| 9H |  |  |  | .457 |

Mean Kappa for faculty=.176

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .138 | .269 | .051 | .165 |
| 9C |  | .233 | .195 | .129 |
| 9D |  |  | .207 | .260 |
| 9K |  |  |  | .110 |

**pairwise Kappa agreement on criterion code 16869:**

Mean Kappa for all judges=.298

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .347 | .561 | .119 | .356 | .232 | .384 | .263 | .279 | .419 |
| 9B |  | .363 | .195 | .439 | .226 | .212 | .431 | .120 | .152 |
| 9C |  |  | .214 | .464 | .307 | .478 | .385 | .347 | .294 |
| 9D |  |  |  | .302 | .497 | .188 | .352 | .175 | .047 |
| 9E |  |  |  |  | .269 | .370 | .331 | .316 | .229 |
| 9G |  |  |  |  |  | .424 | .374 | .185 | .113 |
| 9H |  |  |  |  |  |  | .373 | .375 | .284 |
| 9J |  |  |  |  |  |  |  | .379 | .116 |
| 9K |  |  |  |  |  |  |  |  | .120 |

Mean Kappa for librarian=.338

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .356 | .232 | .384 | .263 |
| 9E |  | .269 | .370 | .331 |
| 9G |  |  | .424 | .374 |
| 9H |  |  |  | .373 |

Mean Kappa for faculty=.203

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .363 | .195 | .120 | .152 |
| 9C |  | .214 | .347 | .294 |
| 9D |  |  | .175 | .047 |
| 9K |  |  |  | .120 |

**pairwise Kappa agreement on criterion code 16870:**

Mean Kappa for all judges=.513

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .722 | .963 | .654 | .560 | .847 | .540 | .438 | .465 | .479 |
| 9B |  | .692 | .563 | .371 | .645 | .361 | .355 | .309 | .302 |
| 9C |  |  | .626 | .537 | .814 | .517 | .416 | .445 | .513 |
| 9D |  |  |  | .384 | .580 | .442 | .504 | .344 | .260 |
| 9E |  |  |  |  | .475 | .732 | .756 | .330 | .666 |
| 9G |  |  |  |  |  | .576 | .408 | .421 | .455 |
| 9H |  |  |  |  |  |  | .794 | .260 | .570 |
| 9J |  |  |  |  |  |  |  | .179 | .591 |
| 9K |  |  |  |  |  |  |  |  | .245 |

Mean Kappa for librarian=.613

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .560 | .847 | .540 | .438 |
| 9E |  | .475 | .732 | .756 |
| 9G |  |  | .576 | .408 |
| 9H |  |  |  | .794 |

Mean Kappa for faculty=.430

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .692 | .563 | .309 | .302 |
| 9C |  | .626 | .445 | .513 |
| 9D |  |  | .344 | .260 |
| 9K |  |  |  | .245 |

**pairwise Kappa agreement on criterion code 16871:**

Mean Kappa for all judges=.508

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .329 | .618 | .413 | .613 | .671 | .820 | .565 | .585 | .534 |
| 9B |  | .276 | .212 | .318 | .273 | .472 | .525 | .322 | .345 |
| 9C |  |  | .733 | .414 | .682 | .597 | .359 | .578 | .587 |
| 9D |  |  |  | .358 | .523 | .450 | .361 | .623 | .479 |
| 9E |  |  |  |  | .570 | .666 | .583 | .571 | .417 |
| 9G |  |  |  |  |  | .775 | .456 | .548 | .468 |
| 9H |  |  |  |  |  |  | .557 | .635 | .505 |
| 9J |  |  |  |  |  |  |  | .477 | .396 |
| 9K |  |  |  |  |  |  |  |  | .594 |

Mean Kappa for librarian=.628

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .613 | .671 | .820 | .565 |
| 9E |  | .570 | .666 | .583 |
| 9G |  |  | .775 | .456 |
| 9H |  |  |  | .557 |

Mean Kappa for faculty=.475

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .276 | .212 | .322 | .345 |
| 9C |  | .733 | .578 | .587 |
| 9D |  |  | .623 | .479 |
| 9K |  |  |  | .594 |

**Summary of Cohen’s Kappa**

|  |  |  |  |
| --- | --- | --- | --- |
| Criterion | Librarian (1) | Faculty (2) | All judges |
| 16868 | .375 | .176 | .259 |
| 16869 | .338 | .203 | .298 |
| 16870 | .613 | .430 | .513 |
| 16871 | .628 | .475 | .508 |
| Total score | n/a | n/a | n/a |

1. **Pearson’s correlation**

**Pairwise correlation regarding criterion code “16868”**

Mean Correlation all judges=.355

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .160 | .315\*\* | .278\*\* | .378\*\* | .462\*\* | .438\*\* | .391\*\* | .486\*\* | .286\*\* |
| 9B |  | .300\*\* | .229\* | .104 | .148 | .305\*\* | .219\* | .151 | .058 |
| 9C |  |  | .424\*\* | .448\*\* | .559\*\* | .530\*\* | .420\*\* | .397\*\* | .106 |
| 9D |  |  |  | .285\*\* | .385\*\* | .501\*\* | .491\*\* | .398\*\* | .209\* |
| 9E |  |  |  |  | .495\*\* | .412\*\* | .469\*\* | .461\*\* | .086 |
| 9G |  |  |  |  |  | .608\*\* | .572\*\* | .565\*\* | .195 |
| 9H |  |  |  |  |  |  | .651\*\* | .619\*\* | .106 |
| 9J |  |  |  |  |  |  |  | .521\*\* | .152 |
| 9K |  |  |  |  |  |  |  |  | .190 |

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

\*. Correlation is significant at the 0.05 level

Mean Correlation for librarian=.488

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .378\*\* | .462\*\* | .438\*\* | .391\*\* |
| 9E |  | .495\*\* | .412\*\* | .469\*\* |
| 9G |  |  | .608\*\* | .572\*\* |
| 9H |  |  |  | .651\*\* |

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

Mean correlation for faculty=.246

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .300\*\* | .229\* | .151 | .058 |
| 9C |  | .424\*\* | .397\*\* | .106 |
| 9D |  |  | .398\*\* | .209\* |
| 9K |  |  |  | .190 |

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

\*. Correlation is significant at the 0.05 level

**Pairwise correlation regarding criterion code “16869”**

Mean Correlation all judges=.430

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .474\*\* | .561\*\* | .162 | .375\*\* | .482\*\* | .472\*\* | .346\*\* | .381\*\* | .490\*\* |
| 9B |  | .347\*\* | .241\* | .433\*\* | .397\*\* | .403\*\* | .517\*\* | .357\*\* | .429\*\* |
| 9C |  |  | .461\*\* | .538\*\* | .545\*\* | .526\*\* | .460\*\* | .428\*\* | .464\*\* |
| 9D |  |  |  | .406\*\* | .499\*\* | .331\*\* | .453\*\* | .413\*\* | .313\*\* |
| 9E |  |  |  |  | .297\*\* | .476\*\* | .458\*\* | .464\*\* | .374\*\* |
| 9G |  |  |  |  |  | .537\*\* | .507\*\* | .359\*\* | .467\*\* |
| 9H |  |  |  |  |  |  | .510\*\* | .515\*\* | .417\*\* |
| 9J |  |  |  |  |  |  |  | .668\*\* | .381\*\* |
| 9K |  |  |  |  |  |  |  |  | .220\* |

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

\*. Correlation is significant at the 0.05 level

Mean Correlation for librarian=.446

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .375\*\* | .482\*\* | .472\*\* | .346\*\* |
| 9E |  | .297\*\* | .476\*\* | .458\*\* |
| 9G |  |  | .537\*\* | .507\*\* |
| 9H |  |  |  | .510\*\* |

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

Mean correlation for faculty=.367

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .347\*\* | .241\* | .357\*\* | .429\*\* |
| 9C |  | .461\*\* | .428\*\* | .464\*\* |
| 9D |  |  | .413\*\* | .313\*\* |
| 9K |  |  |  | .220\* |

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

\*. Correlation is significant at the 0.05 level

**Pairwise correlation regarding criterion code “16870”**

Mean Correlation all judges=.596

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .803\*\* | .982\*\* | .544\*\* | .646\*\* | .879\*\* | .680\*\* | .496\*\* | .554\*\* | .766\*\* |
| 9B |  | .787\*\* | .508\*\* | .497\*\* | .713\*\* | .507\*\* | .457\*\* | .391\*\* | .598\*\* |
| 9C |  |  | .531\*\* | .629\*\* | .863\*\* | .665\*\* | .481\*\* | .535\*\* | .775\*\* |
| 9D |  |  |  | .297\*\* | .475\*\* | .653\*\* | .511\*\* | .587\*\* | .478\*\* |
| 9E |  |  |  |  | .608\*\* | .565\*\* | .582\*\* | .437\*\* | .687\*\* |
| 9G |  |  |  |  |  | .702\*\* | .502\*\* | .487\*\* | .749\*\* |
| 9H |  |  |  |  |  |  | .628\*\* | .548\*\* | .678\*\* |
| 9J |  |  |  |  |  |  |  | .233\* | .747\*\* |
| 9K |  |  |  |  |  |  |  |  | .401\*\* |

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

\*. Correlation is significant at the 0.05 level

Mean Correlation for librarian=.629

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 7A | .646\*\* | .879\*\* | .680\*\* | .496\*\* |
| 7E |  | .608\*\* | .565\*\* | .582\*\* |
| 7G |  |  | .702\*\* | .502\*\* |
| 7H |  |  |  | .628\*\* |

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

Mean correlation for faculty=.559

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .787\*\* | .508\*\* | .391\*\* | .598\*\* |
| 9C |  | .531\*\* | .535\*\* | .775\*\* |
| 9D |  |  | .587\*\* | .478\*\* |
| 9K |  |  |  | .401\*\* |

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

**Pairwise correlation regarding criterion code “16871”**

Mean Correlation all judges=.492

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .230\* | .621\*\* | .474\*\* | .678\*\* | .794\*\* | .848\*\* | .481\*\* | .587\*\* | .389\*\* |
| 9B |  | .514\*\* | .437\*\* | .064 | .079 | .476\*\* | .231\* | .495\*\* | .577\*\* |
| 9C |  |  | .706\*\* | .378\*\* | .656\*\* | .682\*\* | .265\*\* | .627\*\* | .743\*\* |
| 9D |  |  |  | .359\*\* | .426\*\* | .643\*\* | .341\*\* | .747\*\* | .510\*\* |
| 9E |  |  |  |  | .589\*\* | .529\*\* | .493\*\* | .540\*\* | .271\*\* |
| 9G |  |  |  |  |  | .711\*\* | .386\*\* | .439\*\* | .356\*\* |
| 9H |  |  |  |  |  |  | .347\*\* | .745\*\* | .468\*\* |
| 9J |  |  |  |  |  |  |  | .442\*\* | .248\* |
| 9K |  |  |  |  |  |  |  |  | .496\*\* |

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

\*. Correlation is significant at the 0.05 level

Mean Correlation for librarian=.586

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .678\*\* | .794\*\* | .848\*\* | .481\*\* |
| 9E |  | .589\*\* | .529\*\* | .493\*\* |
| 9G |  |  | .711\*\* | .386\*\* |
| 9H |  |  |  | .347\*\* |

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

Mean correlation for faculty=.585

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .514\*\* | .437\*\* | .495\*\* | .577\*\* |
| 9C |  | .706\*\* | .627\*\* | .743\*\* |
| 9D |  |  | .747\*\* | .510\*\* |
| 9K |  |  |  | .496\*\* |

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

**Pairwise correlation regarding total scores**

Mean Correlation all judges=.508

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9B | 9C | 9D | 9E | 9G | 9H | 9J | 9K | 9L |
| 9A | .482\*\* | .617\*\* | .442\*\* | .555\*\* | .678\*\* | .631\*\* | .479\*\* | .581\*\* | .499\*\* |
| 9B |  | .504\*\* | .445\*\* | .346\*\* | .411\*\* | .480\*\* | .457\*\* | .452\*\* | .461\*\* |
| 9C |  |  | .654\*\* | .487\*\* | .602\*\* | .645\*\* | .483\*\* | .530\*\* | .586\*\* |
| 9D |  |  |  | .323\*\* | .453\*\* | .509\*\* | .599\*\* | .557\*\* | .542\*\* |
| 9E |  |  |  |  | .408\*\* | .520\*\* | .460\*\* | .467\*\* | .398\*\* |
| 9G |  |  |  |  |  | .641\*\* | .547\*\* | .410\*\* | .498\*\* |
| 9H |  |  |  |  |  |  | .599\*\* | .651\*\* | .464\*\* |
| 9J |  |  |  |  |  |  |  | .469\*\* | .495\*\* |
| 9K |  |  |  |  |  |  |  |  | .331\*\* |

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

Mean Correlation for librarian=.552

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9E | 9G | 9H | 9J |
| 9A | .555\*\* | .678\*\* | .631\*\* | .479\*\* |
| 9E |  | .408\*\* | .520\*\* | .460\*\* |
| 9G |  |  | .641\*\* | .547\*\* |
| 9H |  |  |  | .599\*\* |

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

Mean correlation for faculty=.506

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9C | 9D | 9K | 9L |
| 9B | .504\*\* | .445\*\* | .452\*\* | .461\*\* |
| 9C |  | .654\*\* | .530\*\* | .586\*\* |
| 9D |  |  | .557\*\* | .542\*\* |
| 9K |  |  |  | .331\*\* |

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

**Summary of Mean Pearson’s Correlation**

|  |  |  |  |
| --- | --- | --- | --- |
| criterion | Librarian (1) | Faculty (2) | All judges |
| 16868 | .488 | .246 | .355 |
| 16869 | .446 | .367 | .430 |
| 16870 | .629 | .559 | .596 |
| 16871 | .586 | .585 | .492 |
| Total score | .552 | .506 | .508 |