Supplemental Materials for Near-hand effects are robust: Three OSF pre-registered replications of visual biases in perihand space

*Table S1.* Mean reaction times (ms) and standard deviations as a function of Hand Position, Response Hand, Target Side, and Cue Validity for Experiment 1.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Response Hand | | | | | | | |
| Left | | | | Right | | | |
| Non-Response Hand Position | | | | Non-Response Hand Position | | | |
| Up | | Down | | Up | | Down | |
| Target Side | | Target Side | | Target Side | | Target Side | |
| Left | Right | Left | Right | Left | Right | Left | Right |
| Valid Cue | 369 (70) | 365 (79) | 364 (70) | 371 (78) | 357 (71) | 357 (68) | 361 (71) | 355 (74) |
| Invalid Cue | 415 (97) | 405 (91) | 416 (88) | 409 (87) | 401 (82) | 411 (80) | 402 (84) | 393 (78) |

*Table S2.* 2x2x2x2 within-subjects ANOVA results on reaction time data as a function of Hand Position, Response Hand, Target Side, and Cue Validity for Experiment 1. (Key interaction demonstrating near-hand effect is highlighted.)

|  |  |  |  |
| --- | --- | --- | --- |
| Factor | *F* | *p* | η2p |
| Hand Position | *F*(1, 45) = .293 | .591 | .006 |
| Response Hand | *F*(1, 45) = 12.831 | .001 | .222 |
| Target Side | *F*(1, 45) = 1.402 | .243 | .030 |
| Cue Validity | *F*(1, 45) = 162.579 | < .001 | .783 |
| Hand Position \* Response Hand | *F*(1, 45) = .692 | .410 | .015 |
| Hand Position \* Target Side | *F*(1, 45) = .963 | .332 | .021 |
| Response Hand \* Target Side | *F*(1, 45) = .146 | .705 | .003 |
| Hand Position \* Response Hand \* Target Side | *F*(1, 45) = 6.401 | .015 | .125 |
| Hand Position \* Cue Validity | *F*(1, 45) = .688 | .411 | .015 |
| Response Hand \* Cue Validity | *F*(1, 45) = .078 | .781 | .002 |
| Hand Position \* Response Hand \* Cue Validity | *F*(1, 45) = 3.680 | .061 | .076 |
| Target Side \* Cue Validity | *F*(1, 45) = .490 | .488 | .011 |
| Hand Position \* Target Side \* Cue Validity | *F*(1, 45) = 2.577 | .115 | .054 |
| Response Hand \* Target Side \* Cue Validity | *F*(1, 45) = 3.776 | .058 | .077 |
| Hand Position \* Response Hand \* Target Side \* Cue Validity | *F*(1, 45) = .070 | .792 | .002 |

*Table S3.* Mean reaction times (ms) and standard deviations as a function of Hand Position, Target Type, and Cue Validity for Experiment 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Hand Position | | | |
| Up | | Down | |
| Target Type | | Target Type | |
| Near | Far | Near | Far |
| Valid Cue | 361 (74) | 363 (67) | 366 (73) | 359 (70) |
| Invalid Cue | 403 (85) | 413 (86) | 406 (83) | 404 (78) |

*Table S4.* 2x2x2 within-subjects ANOVA results on reaction time data as a function of Hand Position, Target Type, and Cue Validity for Experiment 1. (Key interaction demonstrating near-hand effect is highlighted.)

|  |  |  |  |
| --- | --- | --- | --- |
| Factor | *F* | *p* | η2p |
| Hand Position | *F*(1, 45) = .253 | .618 | .006 |
| Target Type | *F*(1, 45) = .124 | .726 | .003 |
| Cue Validity | *F*(1, 45) = 162.392 | <.001 | .783 |
| Hand Position \* Target Type | *F*(1, 45) = 6.481 | .014 | .126 |
| Hand Position \* Cue Validity | *F*(1, 45) = .624 | .434 | .014 |
| Target Type \* Cue Validity | *F*(1, 45) = 3.613 | .064 | .074 |
| Hand Position \* Target Type \* Cue Validity | *F*(1, 45) = .094 | .760 | .002 |

*Table S5.* Mean reaction times (ms) and standard deviations as a function of Hand Position, Response Hand, Target Side, and Cue Validity for Experiment 2.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Response Hand | | | | | | | |
| Left | | | | Right | | | |
| Non-Response Hand Position | | | | Non-Response Hand Position | | | |
| Up | | Down | | Up | | Down | |
| Target Side | | Target Side | | Target Side | | Target Side | |
| Left | Right | Left | Right | Left | Right | Left | Right |
| Valid Cue | 392 (92) | 379 (90) | 393 (115) | 388 (109) | 379 (84) | 383 (89) | 383 (86) | 376 (76) |
| Invalid Cue | 442 (108) | 432 (109) | 428 (122) | 439 (123) | 427 (106) | 432 (104) | 431 (94) | 428 (101) |

*Table S6.* 2x2x2x2 within-subjects ANOVA results on reaction time data as a function of Hand Position, Response Hand, Target Side, and Cue Validity for Experiment 2. (Key interaction demonstrating near-hand effect is highlighted.)

|  |  |  |  |
| --- | --- | --- | --- |
| Factor | *F* | *p* | η2p |
| Hand Position | *F*(1, 45) = .000 | 1.000 | .000 |
| Response Hand | *F*(1, 45) = 1.034 | .315 | .022 |
| Target Side | *F*(1, 45) = .852 | .361 | .019 |
| Cue Validity | *F*(1, 45) = 240.045 | < .001 | .842 |
| Hand Position \* Response Hand | *F*(1, 45) = .007 | .934 | .000 |
| Hand Position \* Target Side | *F*(1, 45) = .354 | .555 | .008 |
| Response Hand \* Target Side | *F*(1, 45) = 1.425 | .239 | .031 |
| Hand Position \* Response Hand \* Target Side | *F*(1, 45) = 15.851 | < .001 | .260 |
| Hand Position \* Cue Validity | *F*(1, 45) = 1.062 | .308 | .023 |
| Response Hand \* Cue Validity | *F*(1, 45) = .154 | .697 | .003 |
| Hand Position \* Response Hand \* Cue Validity | *F*(1, 45) = 1.151 | .289 | .025 |
| Target Side \* Cue Validity | *F*(1, 45) = 2.028 | .161 | .043 |
| Hand Position \* Target Side \* Cue Validity | *F*(1, 45) = 1.614 | .210 | .035 |
| Response Hand \* Target Side \* Cue Validity | *F*(1, 45) = 1.240 | .271 | .027 |
| Hand Position \* Response Hand \* Target Side \* Cue Validity | *F*(1, 45) = .444 | .509 | .010 |

*Table S7.* Mean reaction times (ms) and standard deviations as a function of Hand Position, Target Type, and Cue Validity for Experiment 2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Hand Position | | | |
| Up | | Down | |
| Target Type | | Target Type | |
| Near | Far | Near | Far |
| Valid Cue | 379 (82) | 388 (85) | 386 (94) | 385 (91) |
| Invalid Cue | 429 (101) | 437 (96) | 435 (101) | 427 (102) |

*Table S8.* 2x2x2 within-subjects ANOVA results on reaction time data as a function of Hand Position, Target Type, and Cue Validity for Experiment 2. (Key interaction demonstrating near-hand effect is highlighted.)

|  |  |  |  |
| --- | --- | --- | --- |
| Factor | *F* | *p* | η2p |
| Hand Position | *F*(1, 45) = .000 | .988 | .000 |
| Target Type | *F*(1, 45) = 1.157 | .288 | .025 |
| Cue Validity | *F*(1, 45) = 245.782 | < .001 | .845 |
| Hand Position \* Target Type | *F*(1, 45) = 15.333 | < .001 | .254 |
| Hand Position \* Cue Validity | *F*(1, 45) = 1.176 | .284 | .025 |
| Target Type \* Cue Validity | *F*(1, 45) = 1.605 | .212 | .034 |
| Hand Position \* Target Type \* Cue Validity | *F*(1, 45) = .489 | .488 | .011 |