|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | -LL | # parameters | BIC | Pseudo-r^2 |
| Uncertainty | 2452.8 | 33 | 5184.7 | .246 |
| Softmax | 2452.6 | 32 | 5175.8 | .247 |

Table 1: Quality of behavioral fits to 4,696 choices from 27 subjects, for softmax model. -LL: Negative log likelihood. BIC: Bayesian information criterion.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Uncertainty | Softmax | Generative |
| β | 0.0598±0.0419 | 0.0549±0.0406 |  |
| ϕ | 0.2288 | - | - |
| λ | 0.8693 | 0.8937 | 0.9836 |
| θ | 30.9027 | 32.9984 | 50.0 |
| σd | 2.5233 | 3.1454 | 2.80 |
| σo(fixed) | 4.00 | 4.00 | 4.00 |
| μ0 | 47.99 | 37.5647 |  |
| σ0 | 8.3796 | 0.3014 |  |

Table 2: Parameter fits to 4,696 choices from 27 subjects, for softmax model.

Parameters β is shown as mean ± 1 SD, over individual fits to each subject; other parameters were yoked between subjects. The parameters used to generate the payoffs are also shown.

|  |  |  |
| --- | --- | --- |
| ***population*** | WSLS | WSLS+Learning |
| P(win|stay) | 0.6955 | 0.6955 |
| P(lose|shift) | 0.4136 | 0.4136 |
| θ(win|stay) | - | 8.2206e-11 |
| θ(lose|shift) | - | 3.2602e-10 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | -LL | # parameters | BIC |
| WSLS | 2828.6 | 2 | 5674.2 |
| WSLS + Learn | 2828.6 | 4 | 5674.2 |

|  |  |  |
| --- | --- | --- |
| ***individual*** | WSLS | WSLS+Learning |
| P(win|stay) | 0.6904±0.1372 | 0.5103±0.4102 |
| P(lose|shift) | 0.4250±0.1114 | 0.3885±0.3086 |
| θ(win|stay) | - | median:0.0410 |
| θ(lose|shift) | - | median: 0.0088 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | -LL | # parameters | BIC |
| WSLS | 99.1308±17.3817 | 2 | 208.5743±34.9494 |
| WSLS + Learn | 98.4942±17.4308 | 4 | 217.5845±35.2304 |

**Model1: exploration(0)/exploitation(1) = info + aff + inter(info\*aff)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Information(|PE|>sigma) | Affective | Interaction |
| β | 0.7812\*\* | 0.5732\*\* | -0.3398\*\* |
| p | 0.0000 | 0.0000 | 0.0017 |

Information trials:

|  |  |  |
| --- | --- | --- |
|  | Information | Affective |
| β | 0.7812\*\* | 0.2335\*\* |
| p | 0.0000 | 0.0063 |

No information trials:

|  |  |  |
| --- | --- | --- |
|  | Information | Affective |
| β | 0.3712\*\* | 0.2020\* |
| p | 0.0000 | 0.0283 |

**Model2: affective ratings = info + sign + aff**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Information(|PE|>sigma) | Sign | Affective |
| β | -0.5493 | 0.9004\* | 1.2392\*\* |
| p | 0.0924 | 0.0007 | 0.0000 |

**Model3: exploration(0)/exploitation(1) = partner**

|  |  |
| --- | --- |
|  | Information(|PE|>sigma) |
| β | 0.7555\*\* |
| p | 0.0000 |