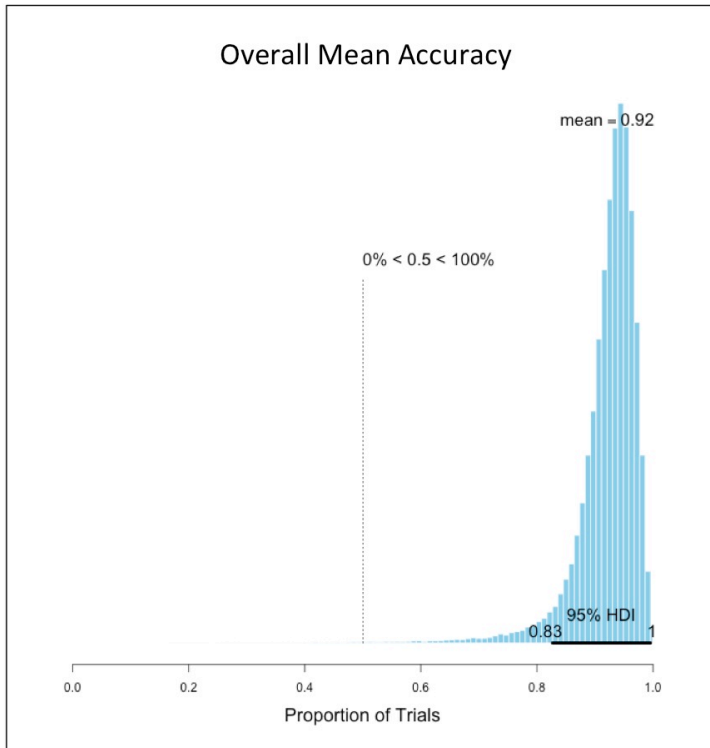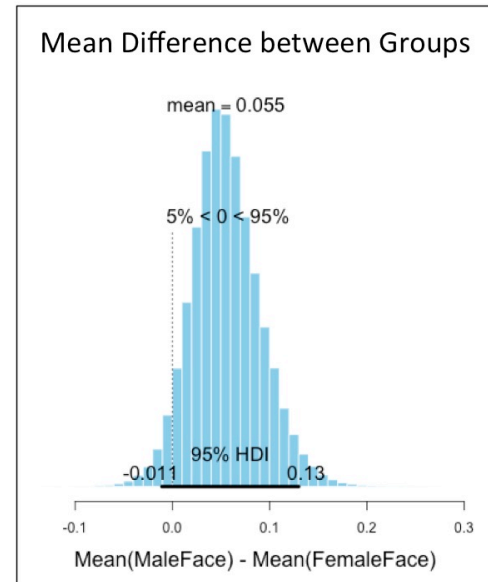# Supplementary Figures

Face recognition in newly hatched chicks at the onset of vision

Samantha M. W. Wood & Justin N. Wood
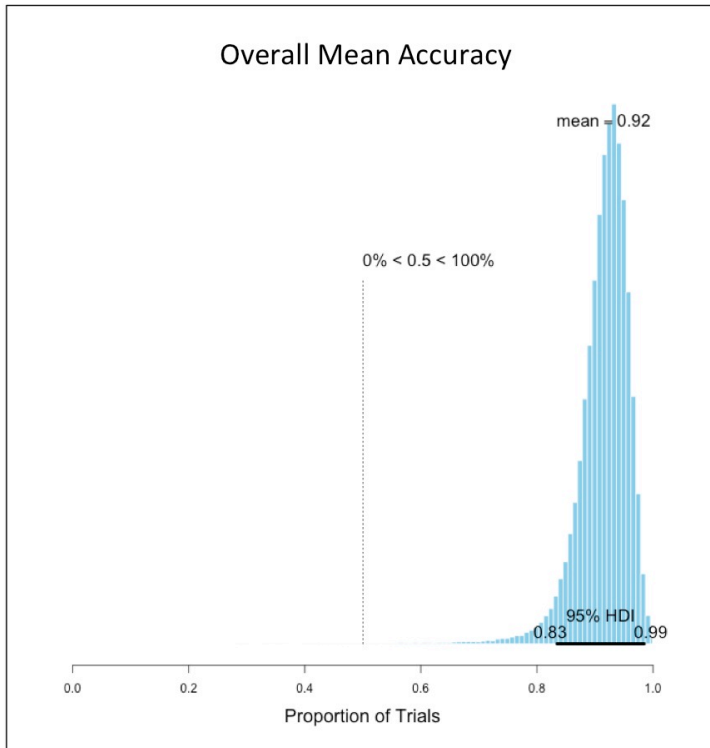
**Condition: Edges Only**



Overall Mean Accuracy

mean = 0.92

0% < 0.5 < 100%

95% HDI
0.83    1

Proportion of Trials

Probability density graph of performance for all subjects.



Mean Difference between Groups

mean = 0.055

5% < 0 < 95%

95% HDI
-0.011    0.13
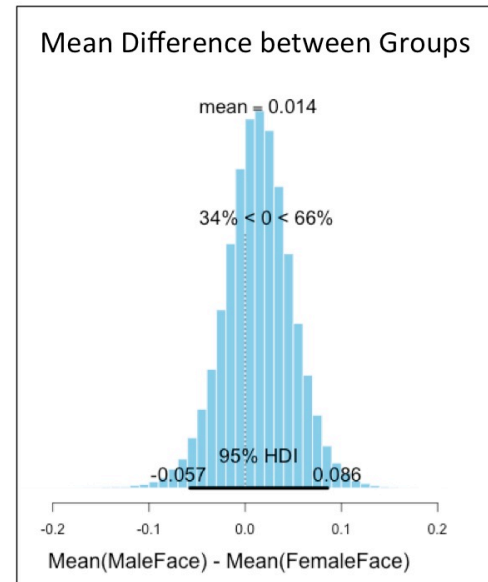
Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 1. The graph on the left shows the probability density function of subjects' performance in the Edges Only condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.
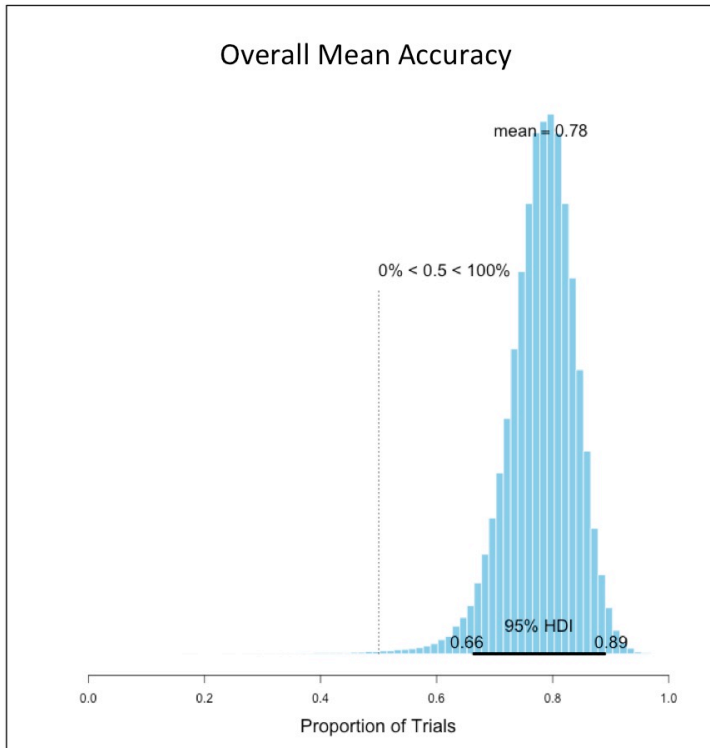
**Condition: No Color**



Overall Mean Accuracy

mean = 0.92

0% < 0.5 < 100%

95% HDI
0.83        0.99

Proportion of Trials

Probability density graph of performance for all subjects.



Mean Difference between Groups

mean = 0.014

34% < 0 < 66%

95% HDI
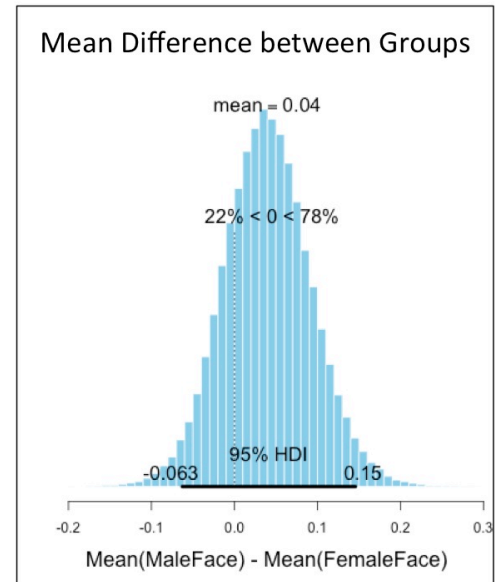-0.057        0.086

Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 2. The graph on the left shows the probability density function of subjects' performance in the No Color condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.

**Condition: Features Only**



Overall Mean Accuracy

mean = 0.78

0% < 0.5 < 100%

95% HDI
0.66    0.89

Proportion of Trials

Probability density graph of performance for all subjects.

Mean Difference between Groups

mean = 0.04

22% < 0 < 78%

95% HDI
-0.063    0.15

Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 3. The graph on the left shows the probability density function of subjects' performance in the Features Only condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.
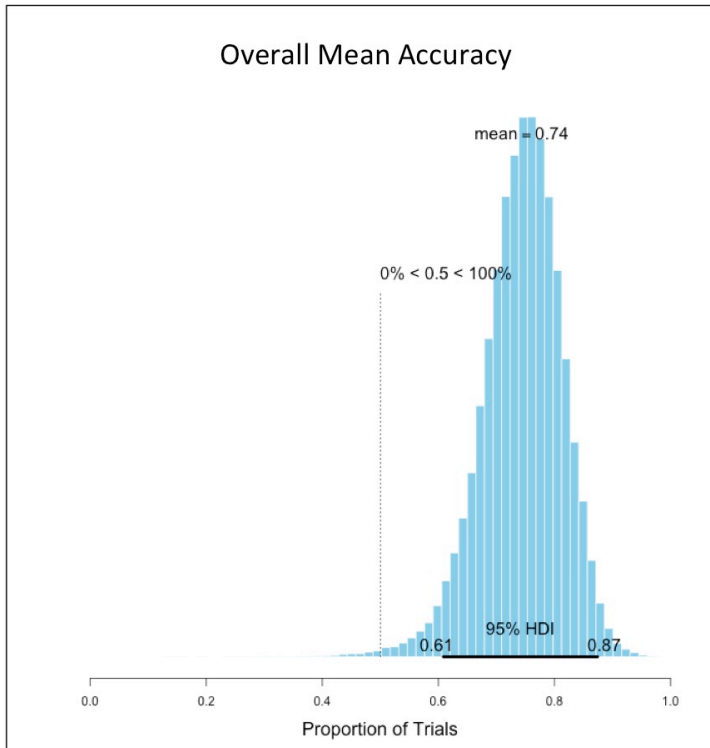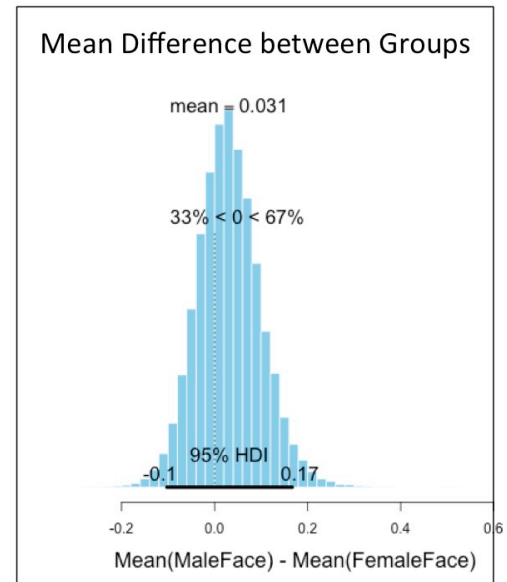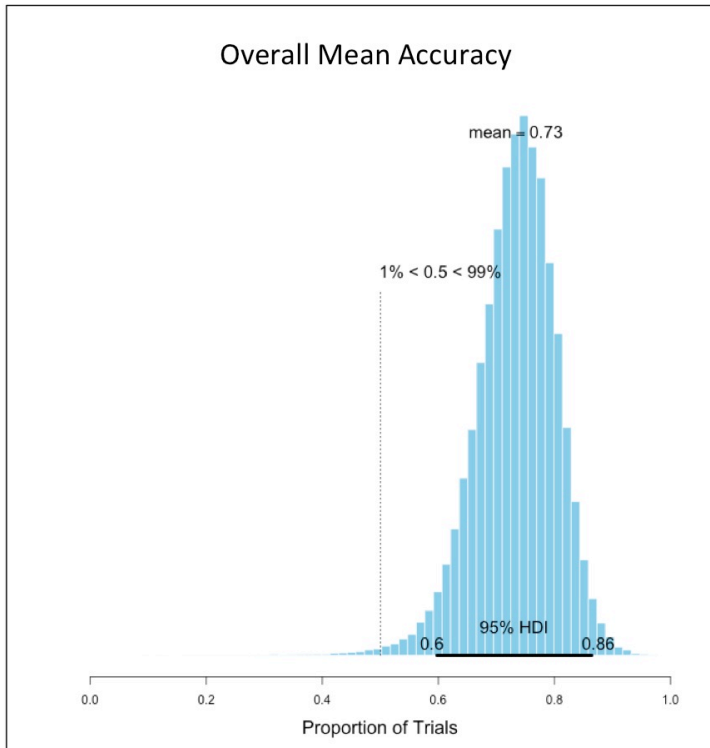
**Condition: Different Gender Coloring**



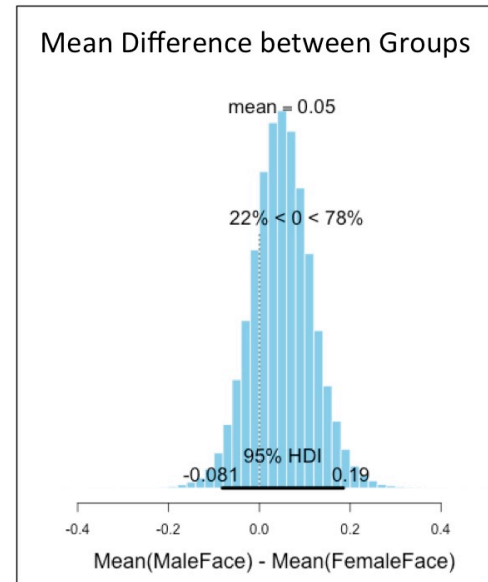Probability density graph of performance for all subjects.

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 4. The graph on the left shows the probability density function of subjects' performance in the Different Gender Coloring condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.

**Condition: Inverted**



Overall Mean Accuracy

mean = 0.73

1% < 0.5 < 99%

95% HDI
0.6    0.86

Proportion of Trials

Probability density graph of performance for all subjects.

Mean Difference between Groups

mean = 0.05

22% < 0 < 78%

95% HDI
-0.081    0.19

Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 5. The graph on the left shows the probability density function of subjects' performance in the Inverted condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.
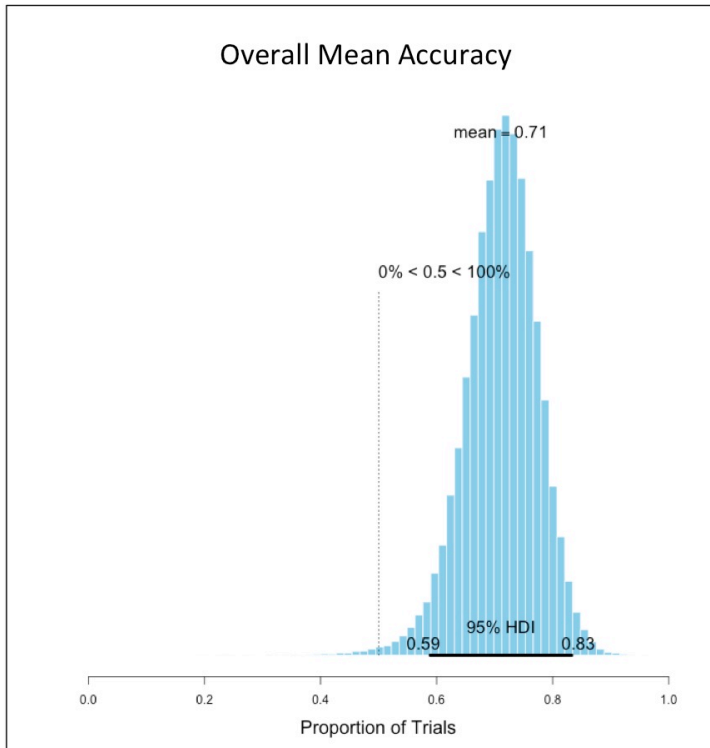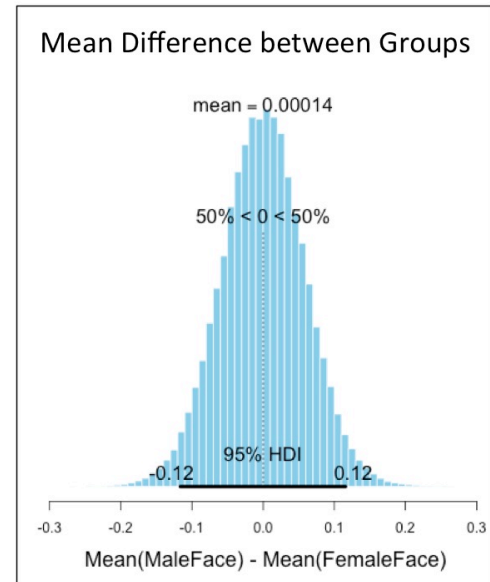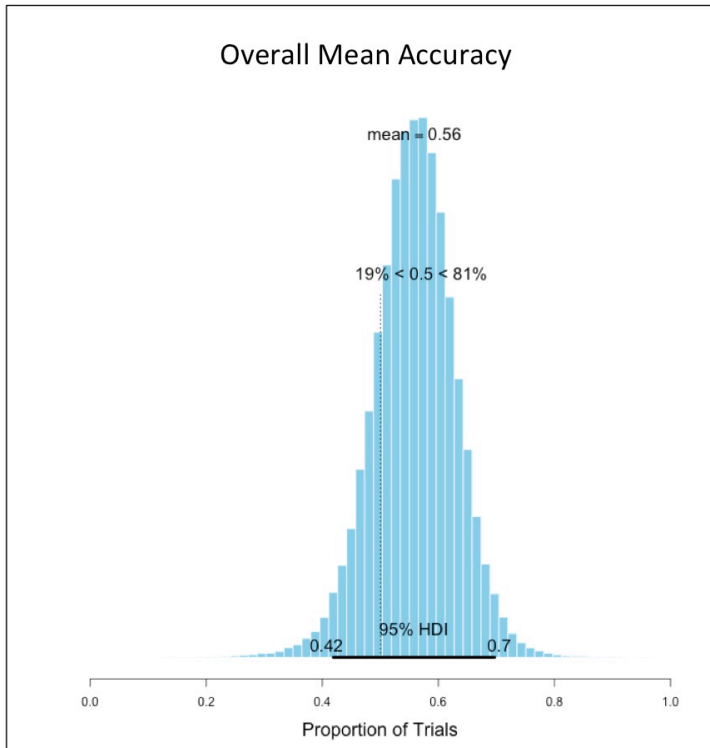
**Condition: Different Age**



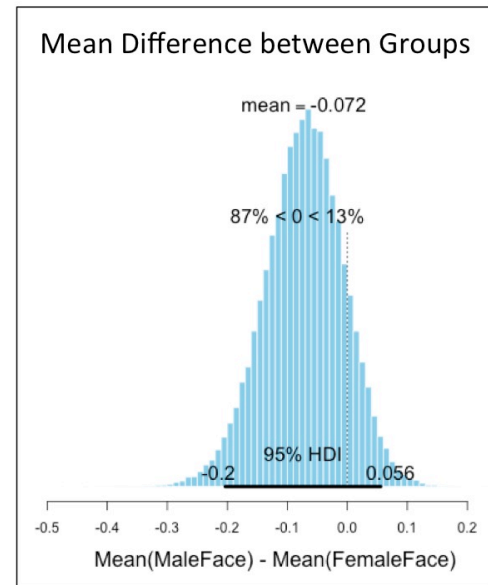Probability density graph of performance for all subjects.

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 6. The graph on the left shows the probability density function of subjects' performance in the Different Age condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.

**Condition: Different Gender Shape**



Overall Mean Accuracy

mean = 0.56

19% < 0.5 < 81%

95% HDI
0.42    0.7

Proportion of Trials

Probability density graph of performance for all subjects.



Mean Difference between Groups

mean = -0.072

87% < 0 < 13%

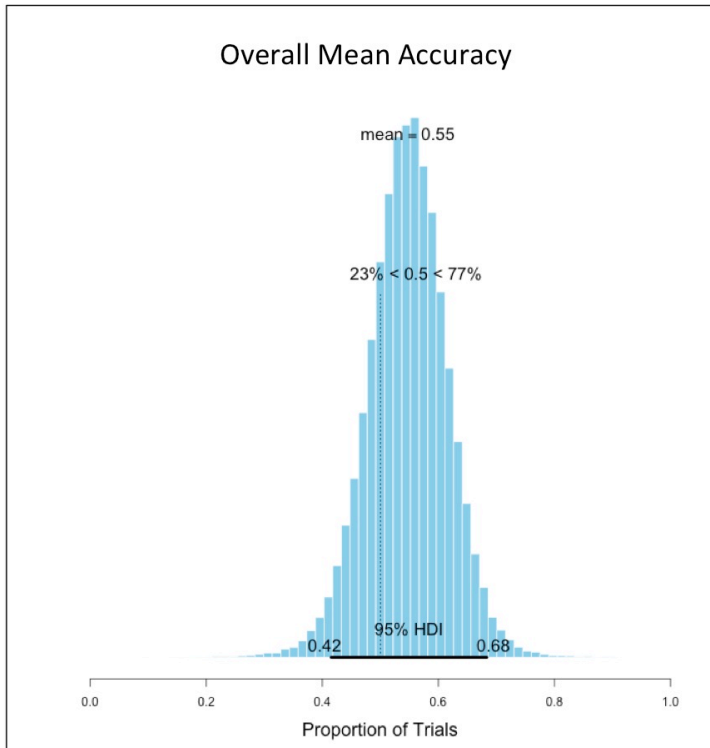95% HDI
-0.2    0.056

Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.
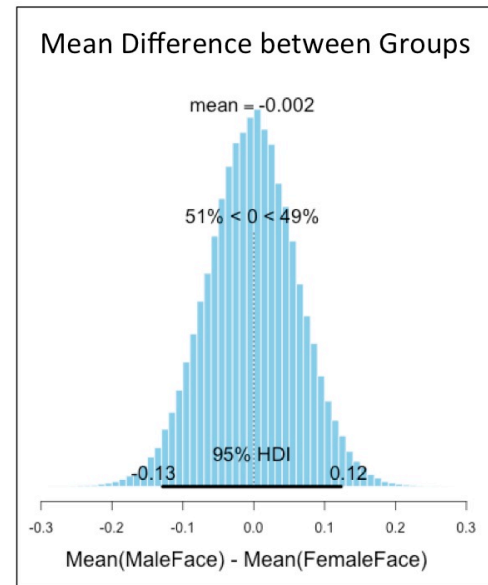
SI Figure 7. The graph on the left shows the probability density function of subjects' performance in the Different Gender Shape condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.
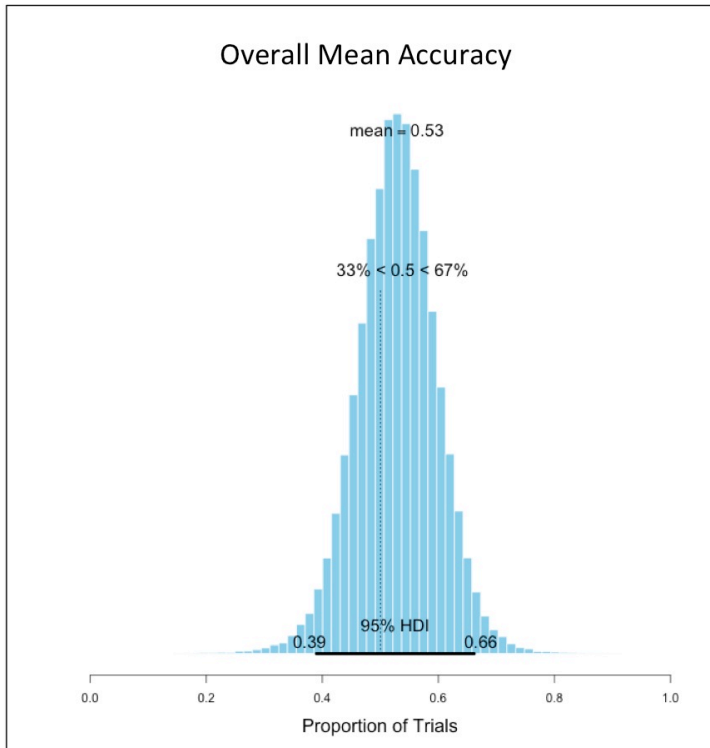
**Condition: Fearful Expression**



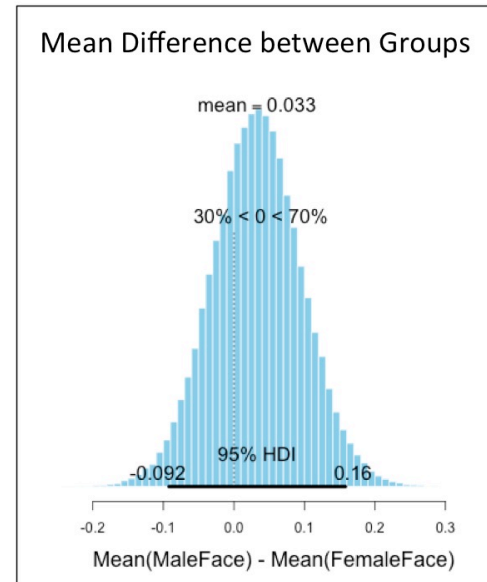Probability density graph of performance for all subjects.



Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 8. The graph on the left shows the probability density function of subjects' performance in the Fearful Expression condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.

**Condition: Angry Expression**



Overall Mean Accuracy

mean = 0.53

33% < 0.5 < 67%

95% HDI
0.39          0.66

Proportion of Trials

Probability density graph of performance for all subjects.

Mean Difference between Groups

mean = 0.033

30% < 0 < 70%

95% HDI
-0.092          0.16

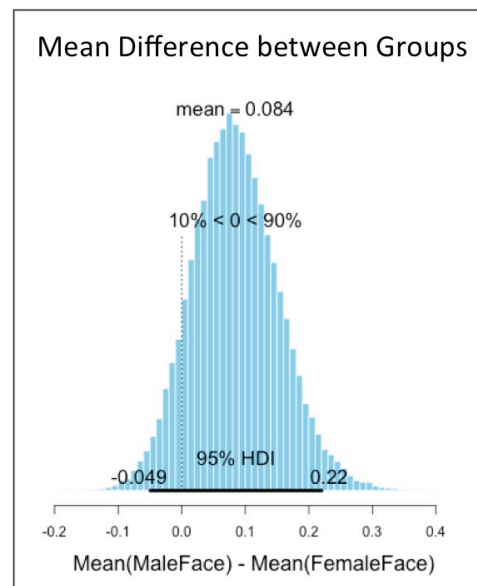Mean(MaleFace) - Mean(FemaleFace)

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 9. The graph on the left shows the probability density function of subjects' performance in the Angry Expression condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.

**Condition: Repositioned Features**
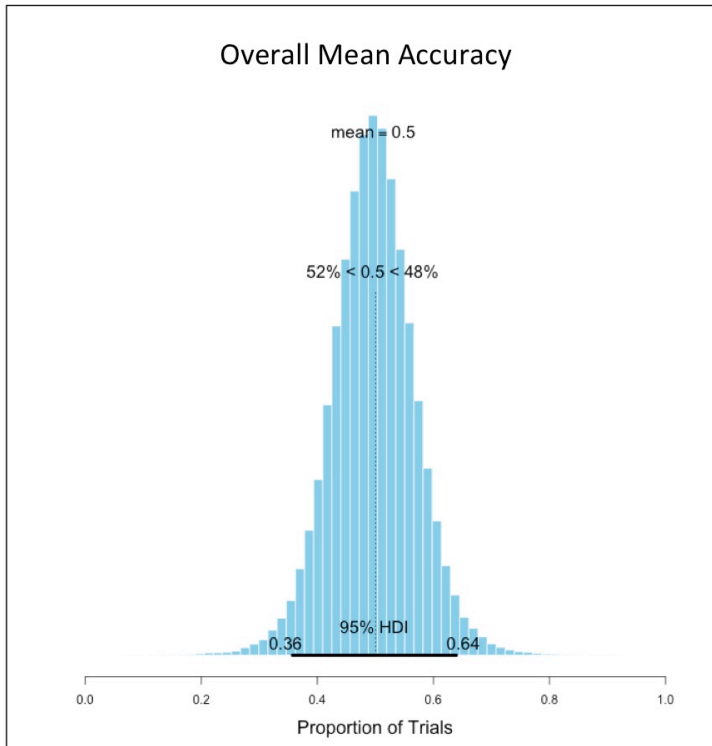


Overall Mean Accuracy

Probability density graph of performance for all subjects.



Mean Difference between Groups

Probability density graph showing the difference in performance between subjects imprinted to the male face versus the female face.

SI Figure 10. The graph on the left shows the probability density function of subjects' performance in the Repositioned Features condition (chance performance is 50%). The graph on the right shows the mean difference between the subjects imprinted to the male face and the subjects imprinted to the female face.