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# The neural signature of spatial frequency-based information integration in scene perception

Tonglin Mu · Sheng Li

Abstract

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#### Introduction



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#### **Experiment 1**

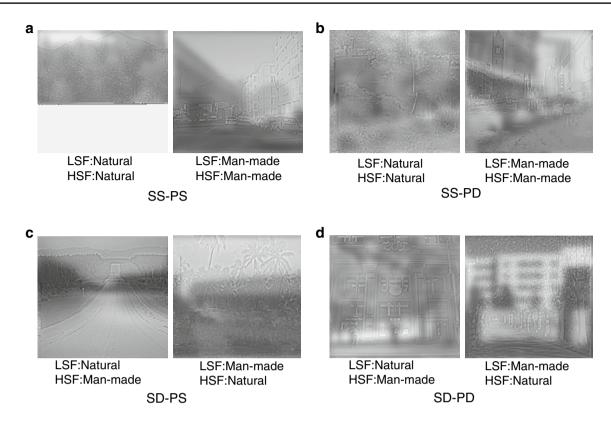
 $\mathbf{M}_{\mathbf{A}}$ 

#### Observers

#### Stimuli

and the second s . . . . . . . . . . . (\_,  $\mathbf{x} = \mathbf{x}_1, \dots, \mathbf{x}_{n-1}, \dots, \mathbf$ . . . <u>.</u> . . . 







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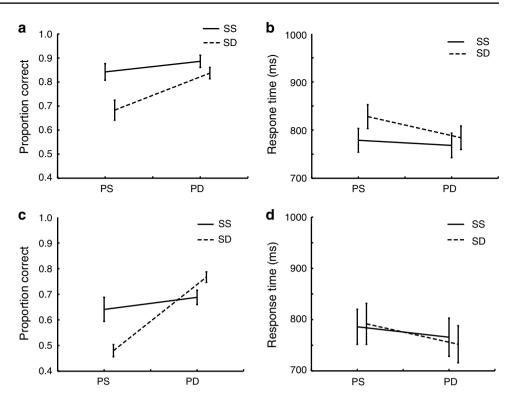
F(y) = p + p < 1F(x) = p = 1F(x) = x p < y $F(x_0) = x_1 - x_1 p < x_2 - x_3$  $f(x) = \int_{\mathbb{R}^{n}} |x|^{n} dx dx = \int_{\mathbb{R}^{n}} |x|^{n} dx dx = \int_{\mathbb{R}^{n}} |x|^{n} dx dx = \int_{\mathbb{R}^{n}} |x|^{n} dx dx$ <u>...... H | .......</u> 

 $F(\cdot, \cdot) = \underbrace{\quad p < \quad p$ 

 $p = \frac{1}{2} H$ 



p = - t( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p < - , ... ( = - - , p



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#### **Experiment 2**

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Observers



#### Stimuli

#### Design

#### EEG recording and analysis

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Table 2

(± EM	_ % (± %	_ %(± _ %	_ %(± _ %	(± _ %		
(± EM	, t <b>(</b> ± , ,	, <b>(</b> ±	<b>(</b> ±	<b>(</b> ±		

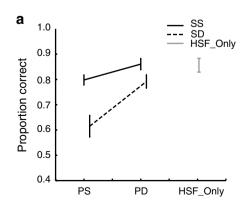
Fig. 3

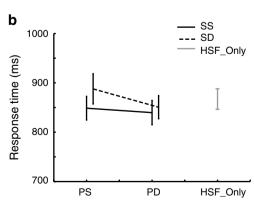
E \_ a

\_ b

\_Error

bars







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\_1..., **E** and the second of the second o F(x) = x + p = 1 $F(\cdot, \cdot) = \cdot \cdot p = \cdot$ H | .... H | .... H | .... and a second of the second of

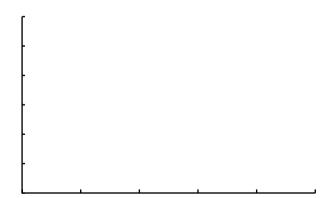
 $F(\cdot) = -\cdot$   $F(\cdot)$ 

 $t(\cdot) = -\cdot p < --$ 

#### Discussion



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#### References

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