



2021年国际心理与认知科学联合论坛
暨北京大学心理与认知科学学院博士生论坛

Normality Mediates the Effect of Symmetry on Facial Attractiveness

心理与认知科学分会场

中山大学 心理学系

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1 引言 Introduction

- **Main Factors for Facial Attractiveness**
 - Symmetry
 - Averageness
 - Sexual dimorphism



Rhodes, 2006, *Annual Review of Psychology*

Thornhill & Gangestad, 1999, *Trends in Cognitive Sciences*

1 引言 Introduction

- Different Symmetry Manipulations May Lead to Different Facial Normality

Increase Facial Attractiveness

Blends

Remaps

No Effect on Facial Attractiveness

Natural Faces

Decrease Facial Attractiveness

Chimeras



(Bertamini et al., 2019; Rhodes et al., 1998)



(Little et al., 2008; Perrett et al., 1999)

Fluctuating Asymmetry



Null correlation between symmetry
and facial attractiveness

(e.g., Farrera et al., 2015 ; van Dongen, 2014)



(Mentus & Markovic, 2016; Zaidel & Deblieck, 2007)

1 引言 Introduction

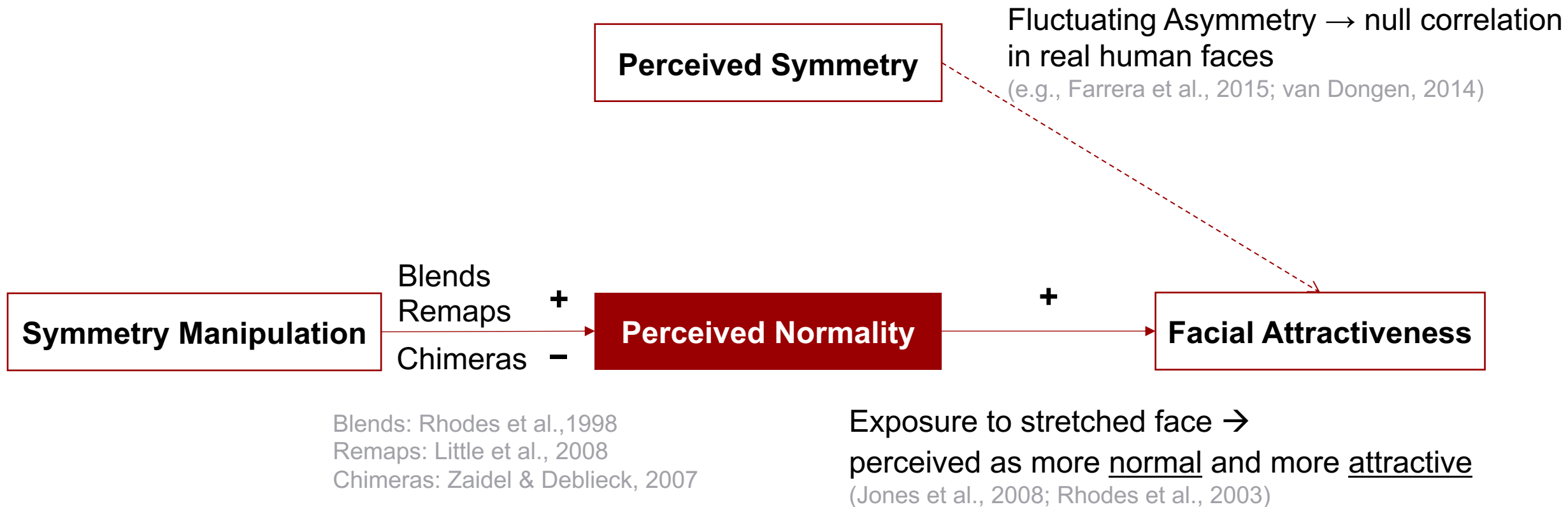
- **Symmetry Affects Facial Attractiveness Through Facial Normality?**
 - Norm-based Face Space Model (Valentine, 1991)
 - Discriminative Threshold of “Deformity Perception” (Wang et al., 2017)

Facial Normality The degree to which a face deviates from the norm face; with a normal range



1 引言 Introduction

- Symmetry Affects Facial Attractiveness Through Facial Normality?



2 方法 Method

Asymmetric

Symmetric

Abnormal

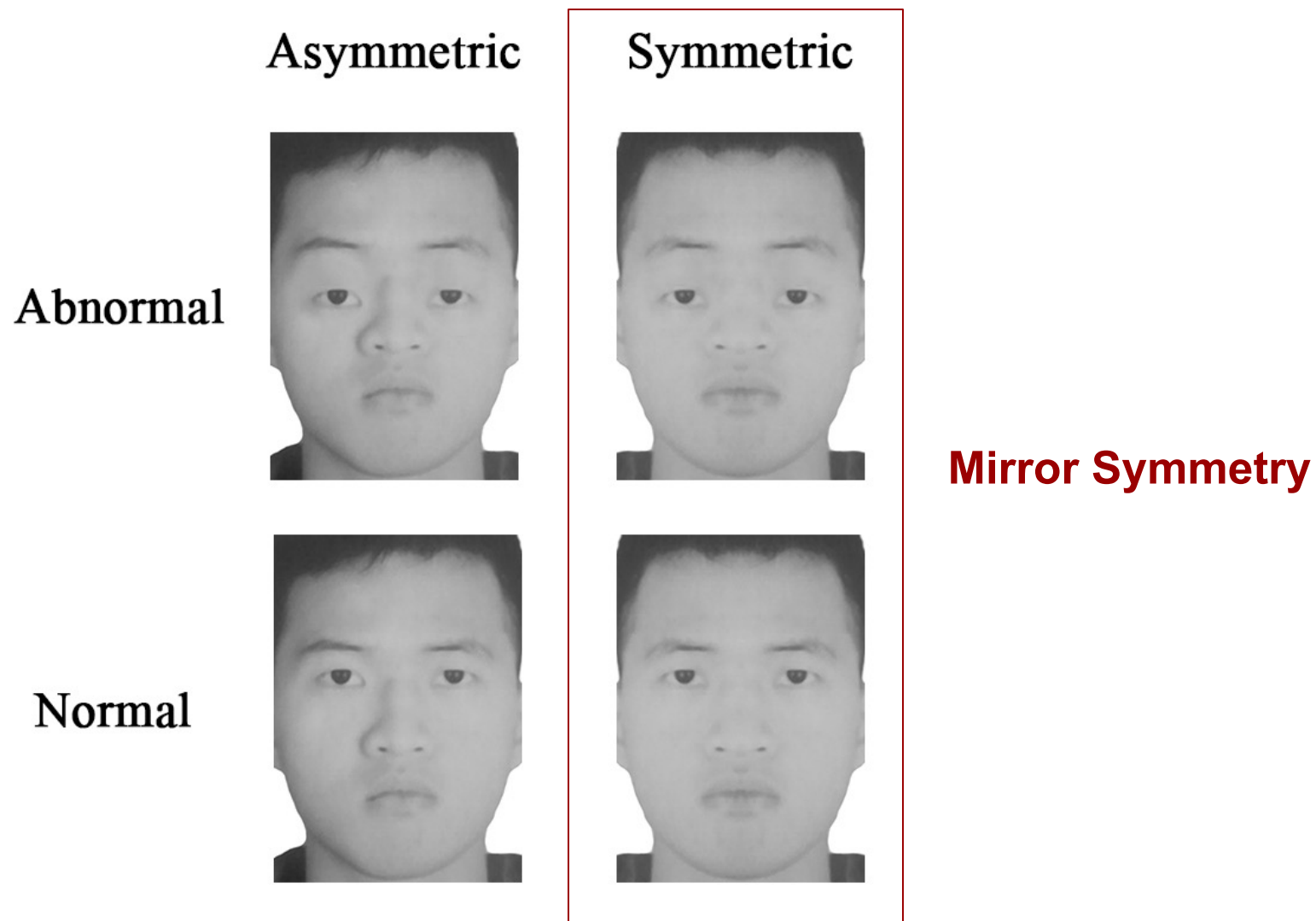


Original Face

Normal



2 方法 Method



2 方法 Method

Asymmetric

Symmetric

Abnormal

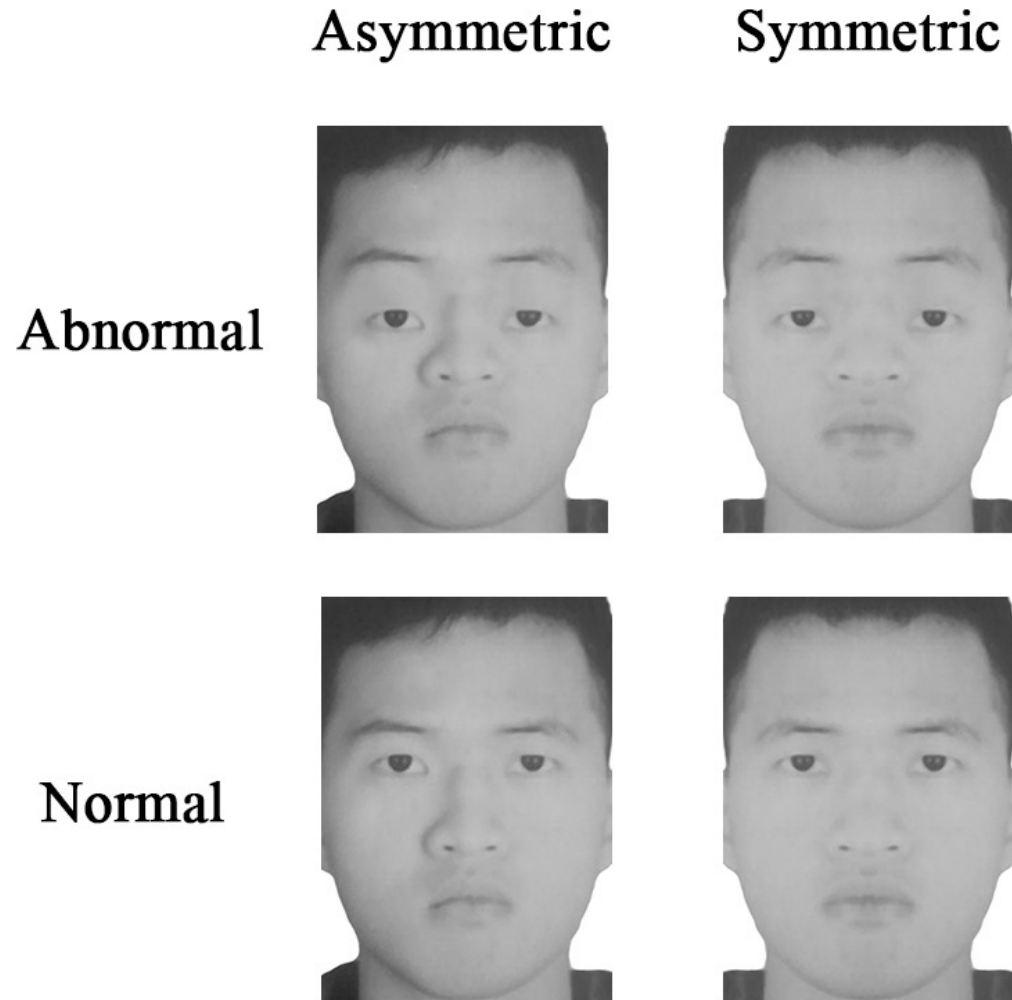


Compress the Position of Eyes

Normal



2 方法 Method



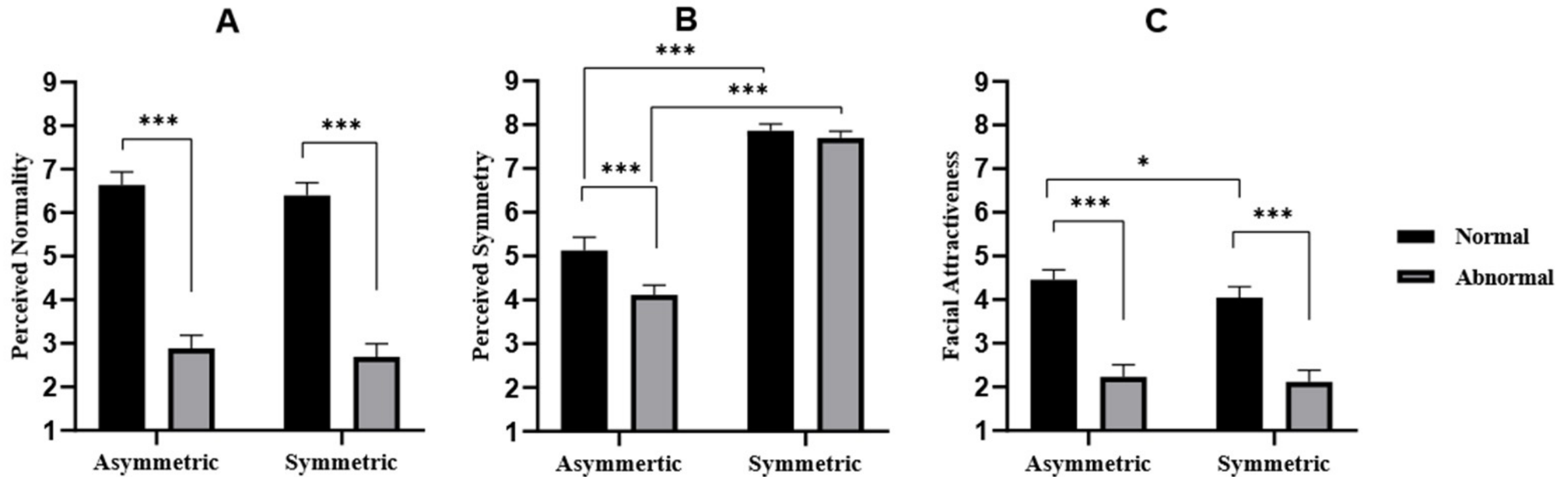
Task:

Rate facial attractiveness

Rate perceived normality/symmetry

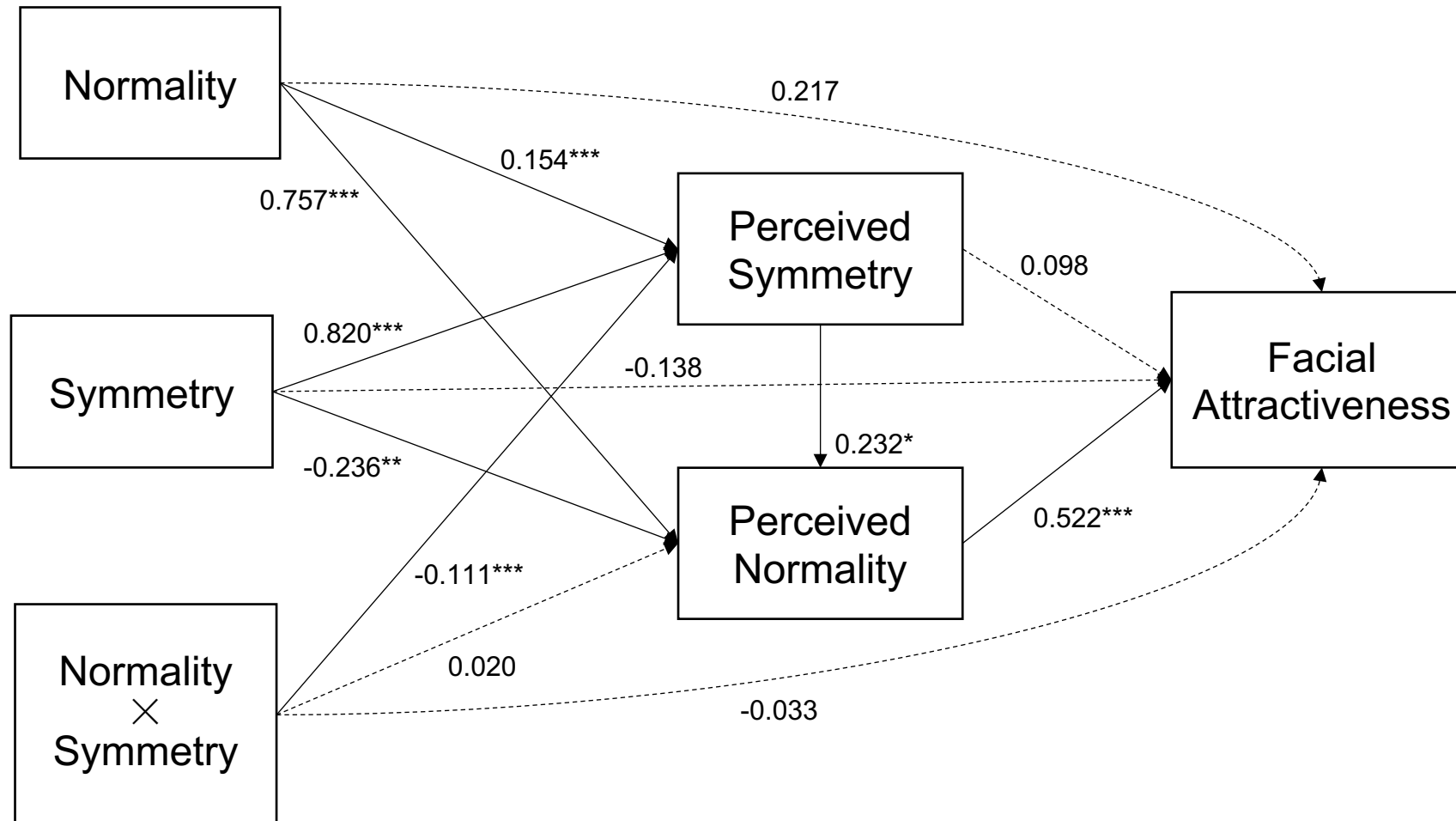
3 结果 Results

- MANOVA



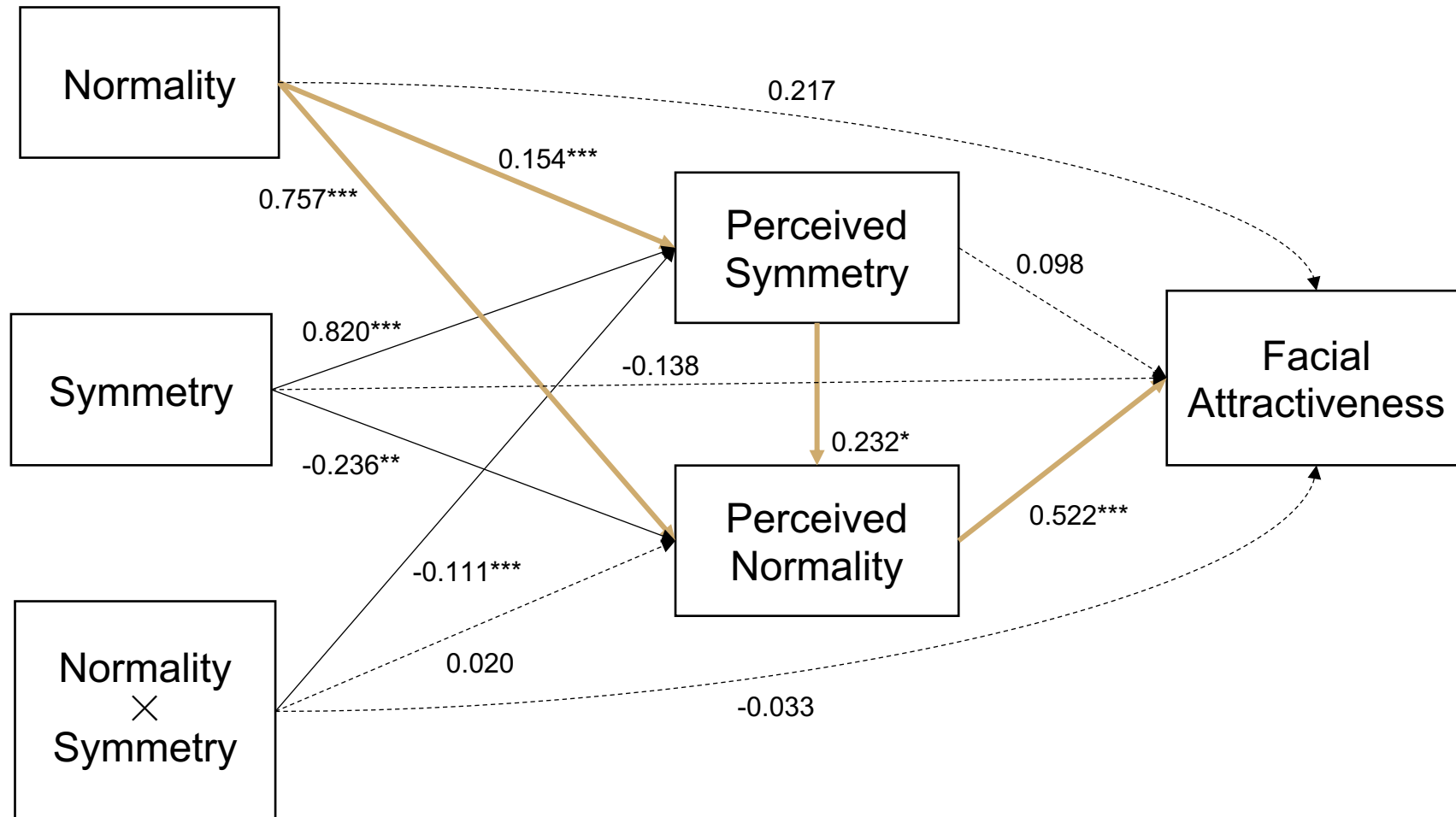
3 结果 Results

- Structural Equation Modeling (SEM)



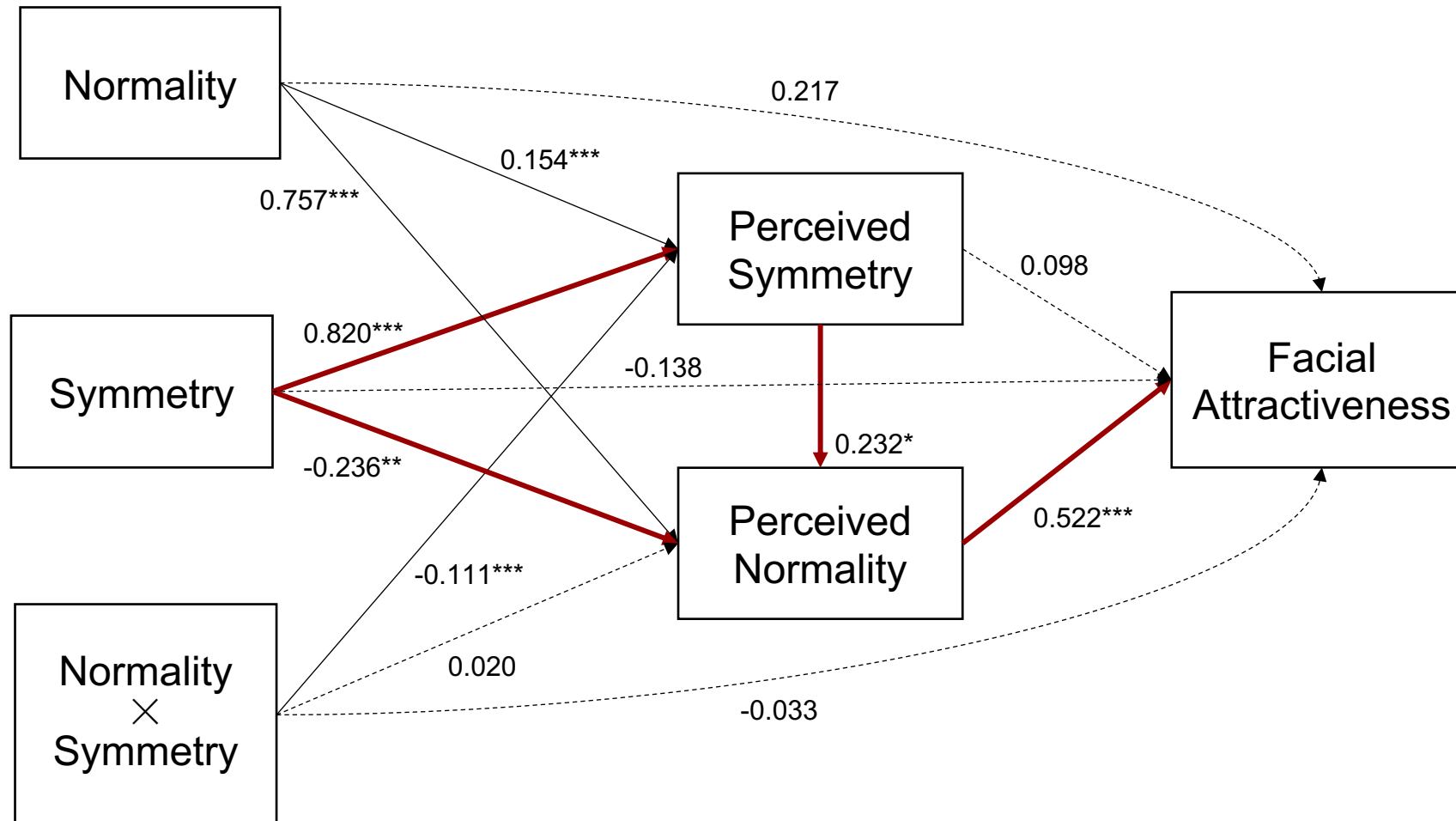
3 结果 Results

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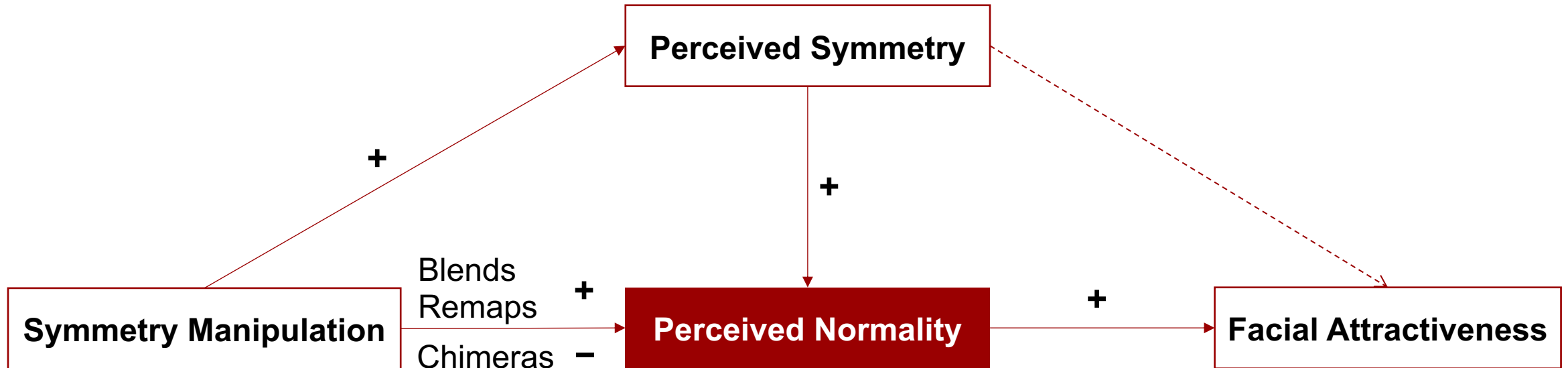
3 结果 Results

- Structural Equation Modeling (SEM)



4 讨论 Discussion

- **Perceived Normality as a Mediator Between Symmetry and Facial Attractiveness**



Blends: Rhodes et al., 1998
Remaps: Little et al., 2008
Chimeras: Zaidel & Deblieck, 2007

(Jones et al., 2008; Rhodes et al., 2003)

4 讨论 Discussion

- **Why did Facial Normality Increase Facial Attractiveness ?**
 - Benefits face processing (Reber et al., 2004; Rhodes & Jeffery, 2006)
 - In line with social norms and self experience (Trujillo et al., 2014)
 - Health and good genes (Henderson & Anglin, 2003; Rhodes et al., 2007)
- **Facial Normality** Rather than Facial Symmetry Increased Facial Attractiveness

Thank you !

Zheng, R., Ren, D., Xie, C., Pan, J., & *Zhou, G. (in press). Normality mediates the effect of symmetry on facial attractiveness. *Acta Psychologica*.