

# Shearlets and Metamers of the Ventral Stream

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## **Abstract**

Freeman and Simoncelli recently developed a model for visual processing in the ventral stream that offers an explanation to visual phenomena like crowding and gives new insights to the functional nature of the area V2. The validity of this model was tested using metameric stimuli, namely images that differ physically but are perceptually almost indistinguishable. I will give an introduction to this work and explain how and why we think that shearlets might provide further improvements to the already established model.