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Research studies currently active.

*In addition to holding brief descriptions of the projects, these wiki pages are used by the lab to document ongoing work (for example, software programming notes).*

*We like to write lots of notes on the fly. The waist-deep-in-a-project, nuts-and-bolts documentation pages are usually only available to lab members.*

*We are happy to share code and techniques upon request.*

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# Multiple Neural Pathways for Encoding Visual Shape

# Dorsal Visual Cortex Processes for Shape Perception

## Shape of 3D concavities

fMRI of perceiving shape from 3D concavities



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## 3D letter recognition

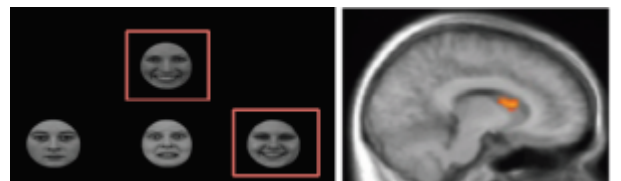
3D letter recognition and visual crowding



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## Role of the Basal Ganglia in Shape-based Object Recognition

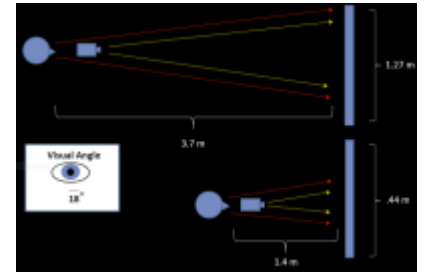
Holistic perception in Parkinson's Disease



# Influence of Physical Size on Perception and Memory for Objects

## Effect of real-world size on object shape perception

[Physical Size and Holistic Perception](#)



[fMRI Study on Physical Size and Holistic Perception](#)

## Effects of large-scale spatial separation on word item memory

[Learning in Large-Scale Interactive Displays](#)

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# Identifying Object Shape Features

## How does the visual system identify parts of common objects?

[Crowding and parts-based recognition](#)

[Deferred decisions in object recognition](#)

## **Which face features do we use to recognize different emotions?**

[Name That Emotion!](#)

## **Detecting clusters of objects**

[What is a Cluster?](#)

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# **Visual Numeracy**

## **Cortical networks for understanding numbers**

### **Mathematical Ways of Operating - Neural Correlates**

[Mathematical Ways of Operating - Neural Correlates](#)

### **Meta-analysis of numeracy neuroimaging**

[Meta-analysis of intraparietal sulcus \(IPS\) fMRI activation during numerical reasoning](#)

## **How does visual grouping affect enumeration?**

[Visual Number Sense](#)

[Visual Number Sense fMRI](#)

# Visual Esthetics

[Color preference](#)

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