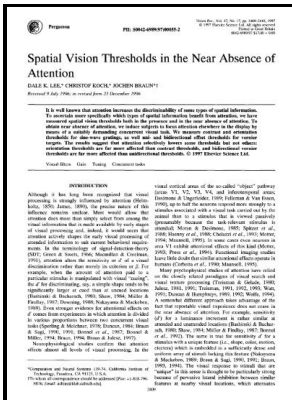


# Investigations into visual hyperacuity.

Aston University. Department of Vision Sciences - Evaluation Of Visual Acuity Article



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## Optical superresolution and visual hyperacuity

Qualification Level: Doctoral ETHOS ID: uk.

## Ewald Hering

To convert receptive field sizes in units of area, square millimeters to predicted hyperacuity thresholds in linear units, millimeter , the square root of the estimated receptive field size was computed i.

## British Library ETHOS: Investigations into visual hyperacuity

The ROIs were independently determined for each individual and each hemisphere, and the cortical distances were measured along the flattened hemisphere of each individual independently. Hering attended gymnasium in Zittau and entered the university of Leipzig in 1853.

## Fast perceptual learning in hyperacuity

Virtually no responses appear along the anterior wall of the central sulcus area 4. Bondarko VM, Danilova MV 1997 What spatial frequency do we use to detect the orientation of a Landolt C? The original chart included images of birds, guns, farm equipment, frogs, and others.

## Hyperacuity

Hering's law predicts that because the eyes must always move by equal amounts, both eyes should move in the new binocular direction of the target see Hering's law of visual direction above , then move in opposite direction to adjust vergence to that of the target.

## Tactile Hyperacuity Thresholds Correlate with Finger Maps in Primary Somatosensory Cortex (S1)

Cortical distance as a function of finger pairing. On each trial, the experimenter positioned the stimulus with respect to the subject's finger by rotating the plate relative to its base.

## **Prediction of visual function behind cataract using displacement threshold hyperacuity, Ophthalmic and Physiological Optics**

The effect of contrast on displacement detection and bisection acuity. The diameter of the bumps was 0. Acuity, literally sharpness, depends on the distance between these light receptors, because their output is coded for only their own location and cannot be further subdivided.

### **Ewald Hering**

Reportedly, errors were more common with certain letters S, F, C, B than others A, L, T, Z. No change in vernier acuity with age was found which contrasted with displacement detection and bisection acuity both of which showed a significant decline with increasing age.

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