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## Finding the mind's eye

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His paper, "Visibility, visual awareness, and visual masking of simple unattended targets are confined to areas in the occipital cortex beyond human V1/V2," is available in the Nov. 8 issue of the weekly journal, The Proceedings of the National Academy of Sciences. Tse's findings help to explain what part of the brain is at work in turning sight into understanding.

Tse, who is currently on sabbatical in [Ads by Google](#)

Regensburg, Germany as the recipient of the prestigious Friedrich Wilhelm Bessel Research Award, conducted experiments using the phenomenon of "masking." Masking occurs when "a quickly flashed object seems to vanish because it is flanked by subsequently presented objects," said Tse. Using Functional Magnetic Resonance Imaging (fMRI), Tse said he and his team, "looked for areas of the brain where neuronal activity decreased when the object was made invisible. These areas are arguably the areas of the brain where the correlates of visual consciousness lie."

Tse's findings may advance the understanding of the brain's interaction with the eye by identifying the neural basis of conscious experience, a relationship important to the fields of medicine, neurology and psychology.

Tse and his co-authors, Susana Martinez-Conde, Alexander A. Schlegel and Stephen L. Macknik of the Barrow Neurological Institute, found that, "early areas in the visual processing hierarchy respond the same whether or not objects are visible to us or invisible in the context of visual masking." That is, some parts of the brain respond to visual stimuli regardless of whether the conscious mind "sees" them or not. However, Tse and his team found that, "neural activity in areas beyond visual area 2 appear to correlate with perception." They also found that the areas of the brain related to visual perception appear to reside exclusively in the occipital lobe (at the back of the head.) Tse's team concluded that, "the neural correlates of conscious visual visibility for masking stimuli lie in the occipital lobe, but after visual area 2."

### About the Author

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## Quotes

I look forward to the invention of faster-than-light travel. What I'm not looking forward to is the long wait in the dark once we arrive at our destination. — Marc Beland.

I just got lost in thought. It was unfamiliar territory — Bumper sticker

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