

# **Residual visual conscious perception in cortical blindness: A multimodal neuroimaging case study**

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Sharif I. Kronemer, PhD

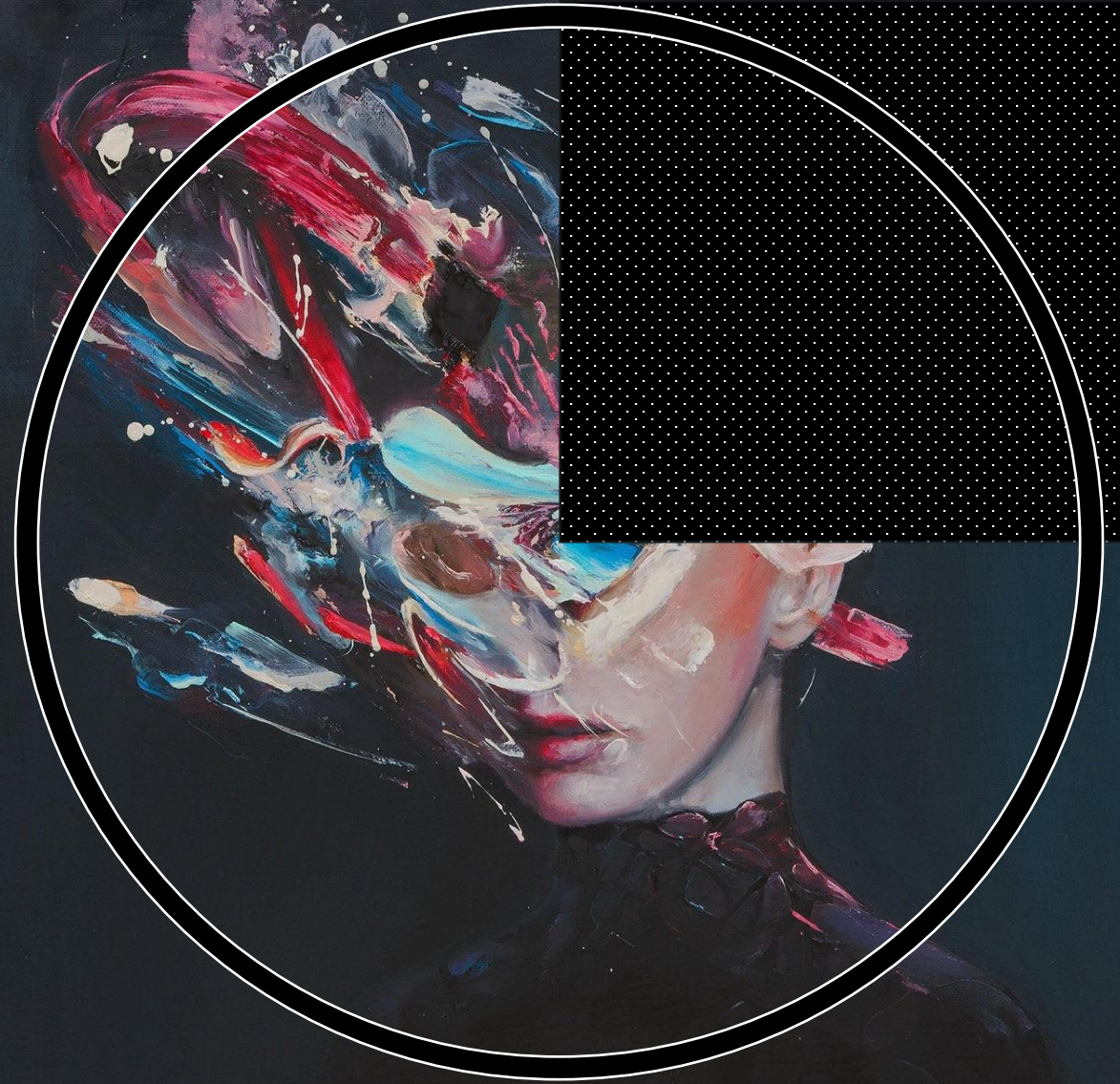
LBC Lab Meeting

June 12, 2026

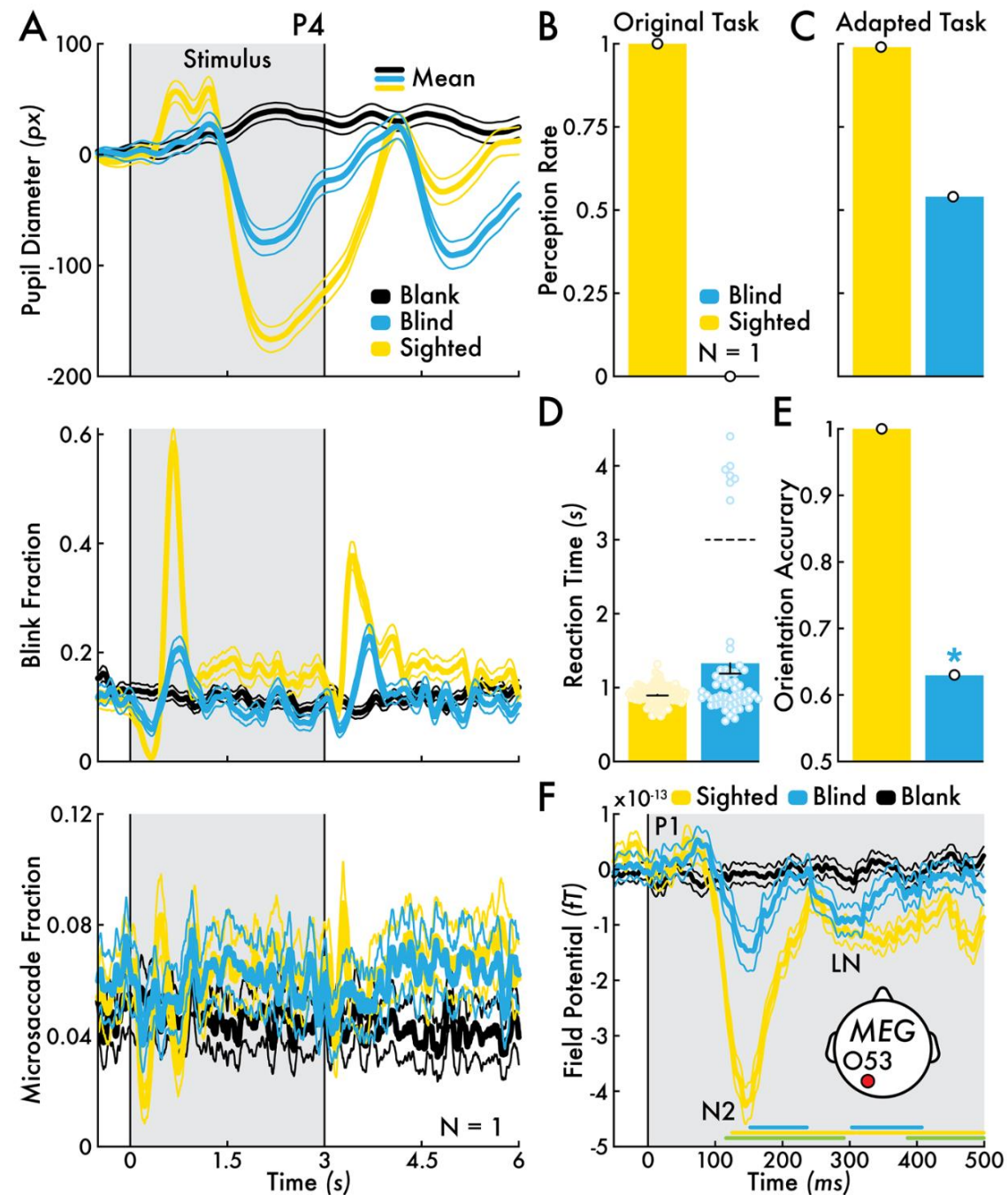
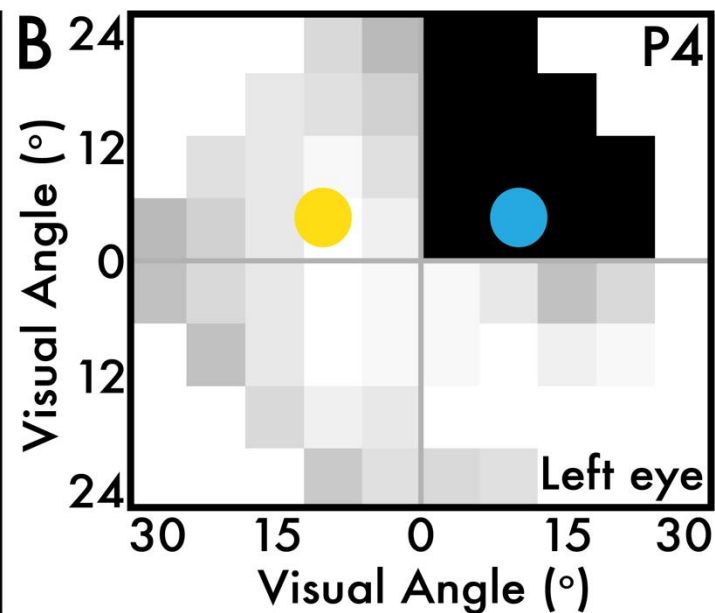
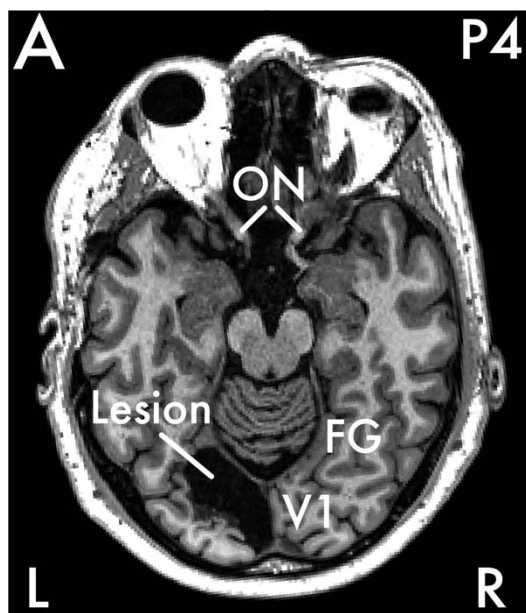
Cassie, Javier, Grace, Josh, & Peter

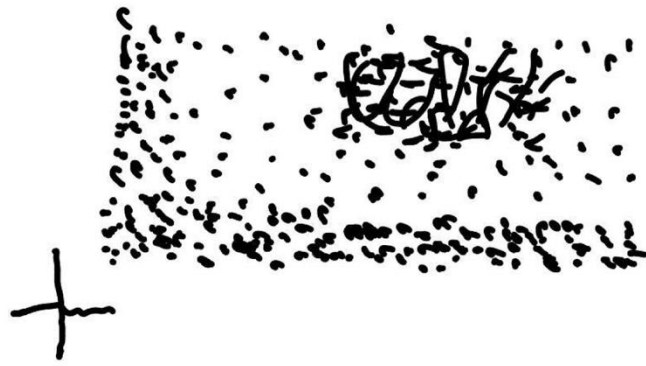
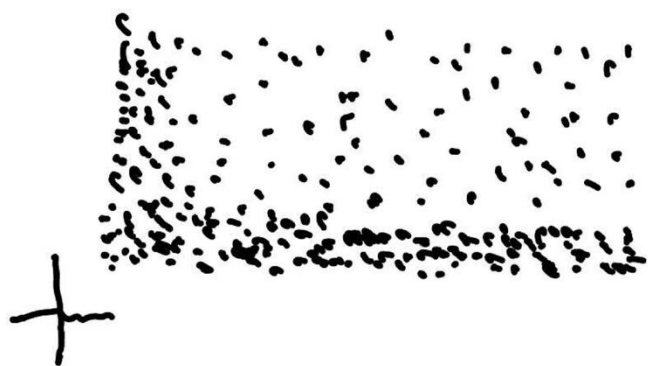


National Institute  
of Mental Health



*Vanessa Toulou*





Kronemer, Levesque *et al.*, in  
prep

“A feeling of seeing”

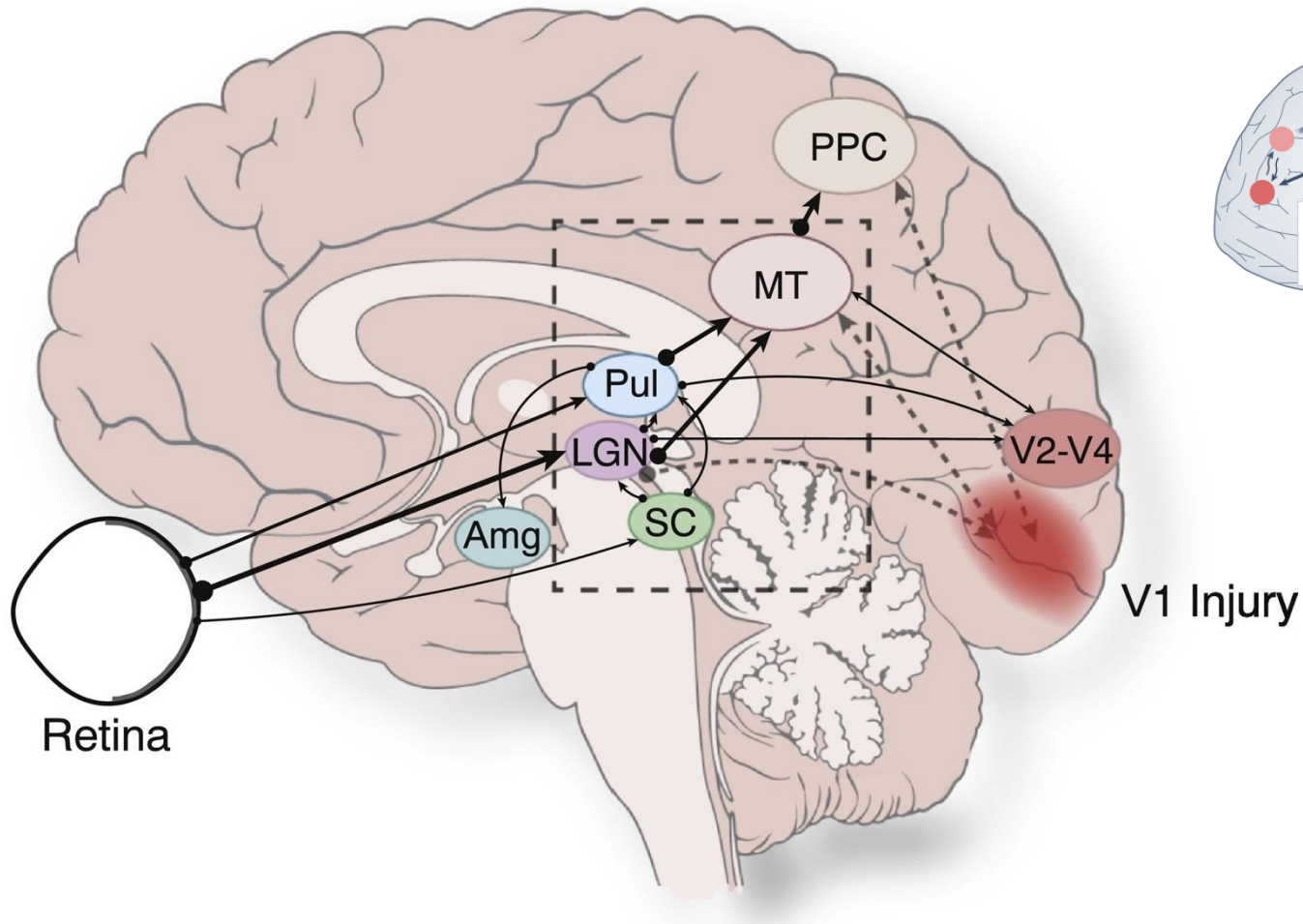
“A disturbance in the force”

“My brain is like notifying me that  
something is going on, but I can’t  
see it”

“I had a sensation but never saw”

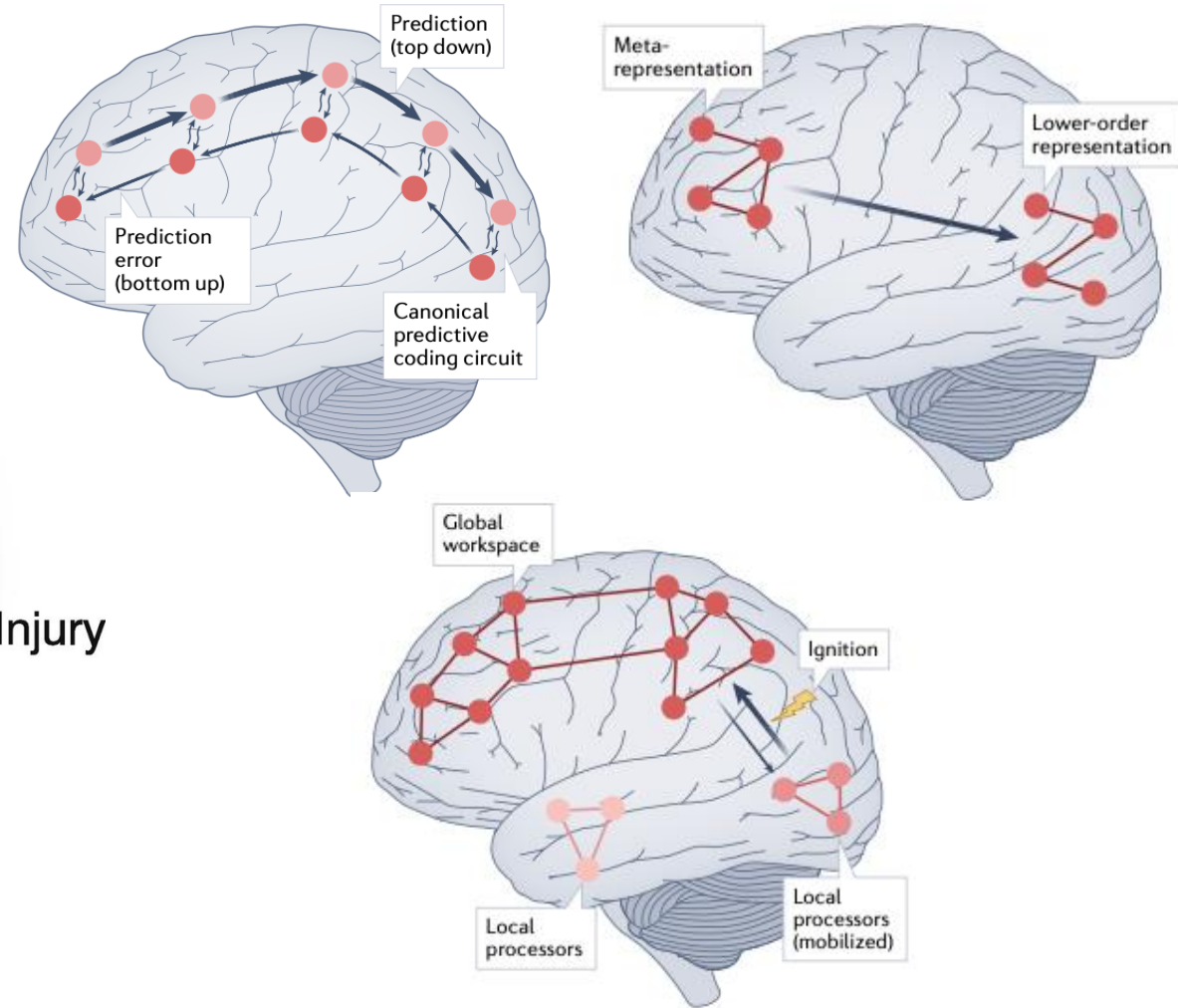
# Secondary visual pathways

(A)

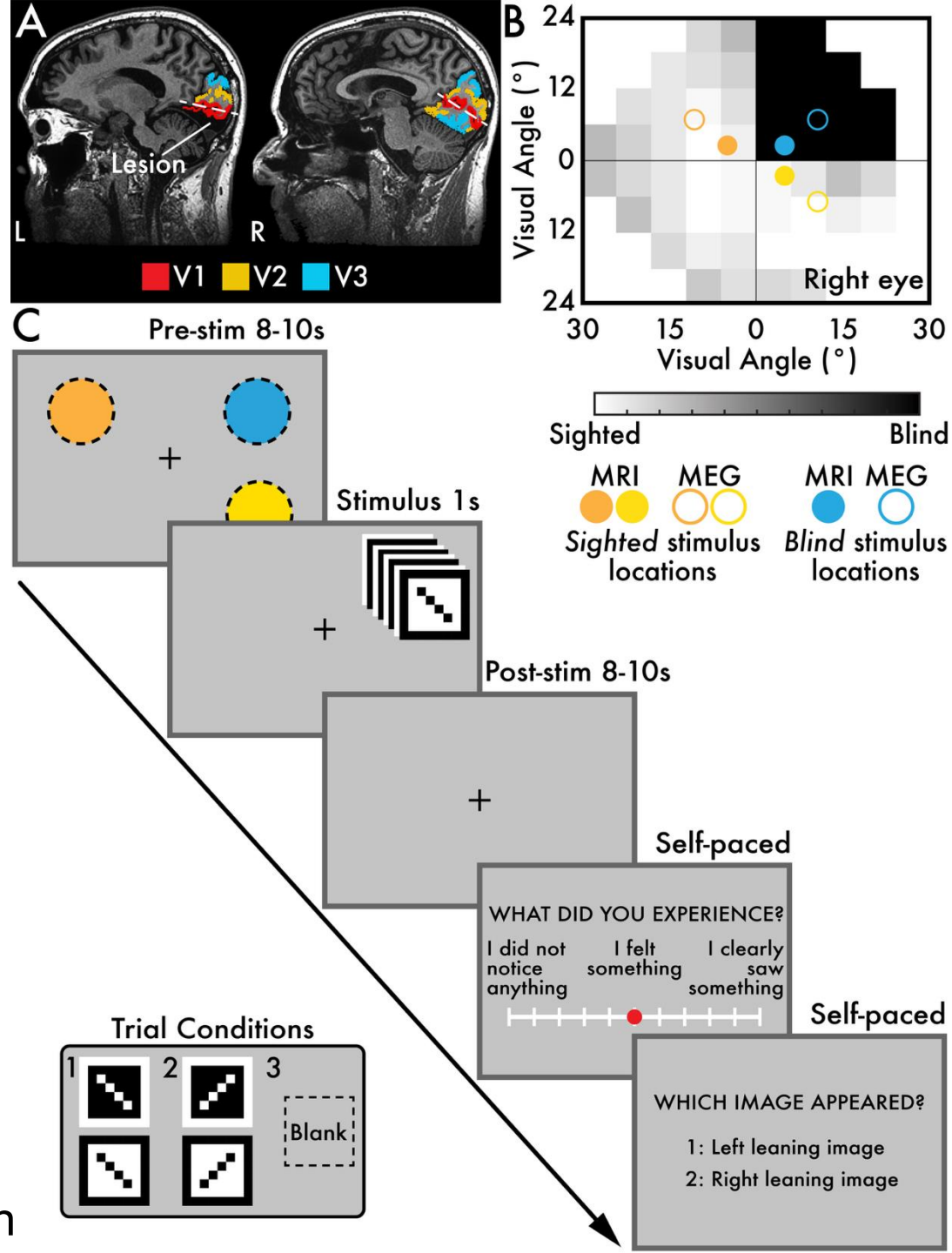


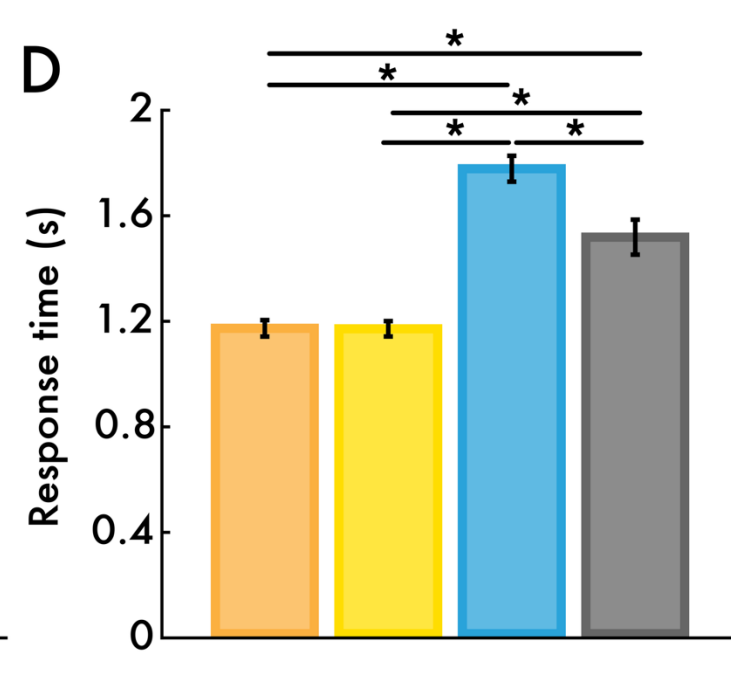
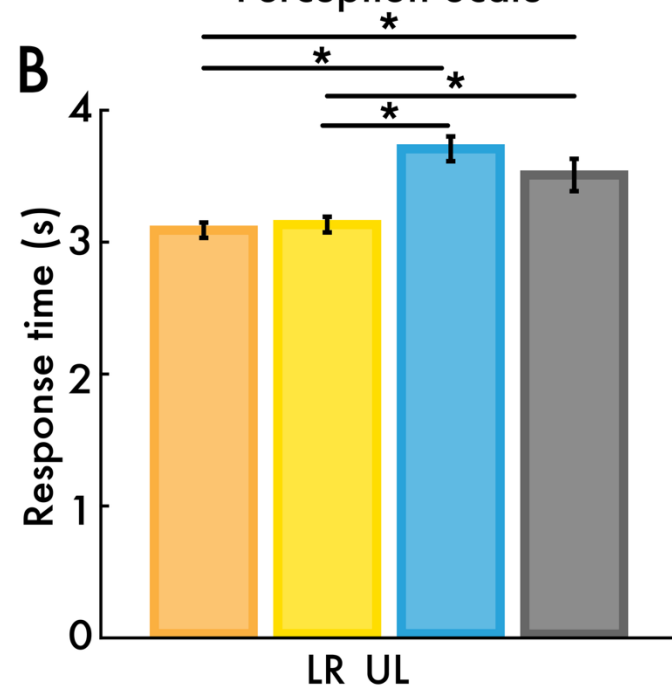
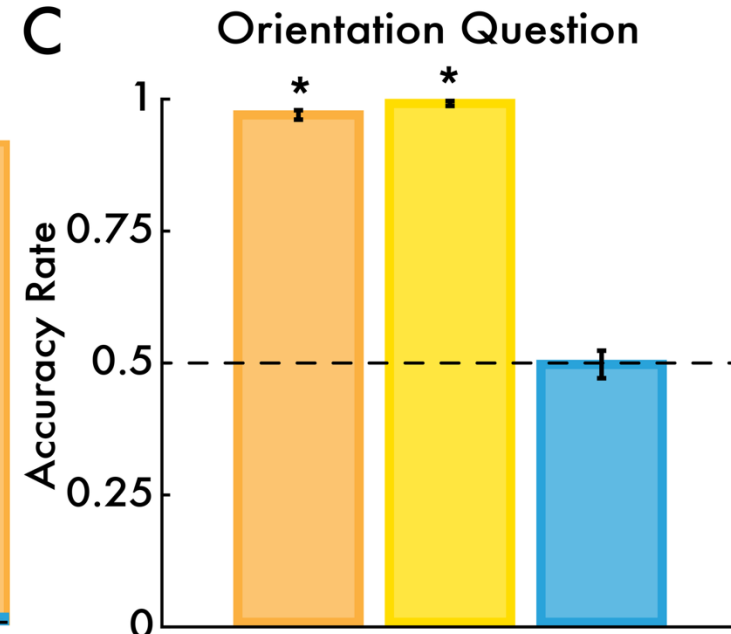
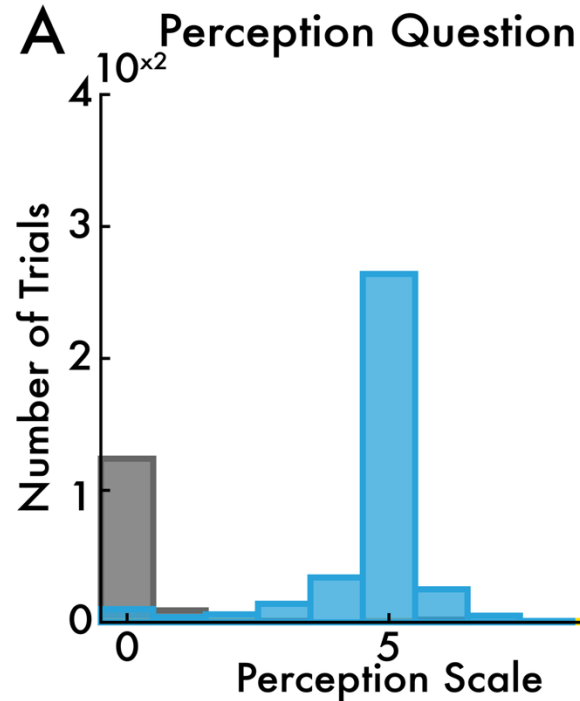
Fox *et al.*, *Trends in Neuro*, 2020

# Neural mechanisms of conscious vision



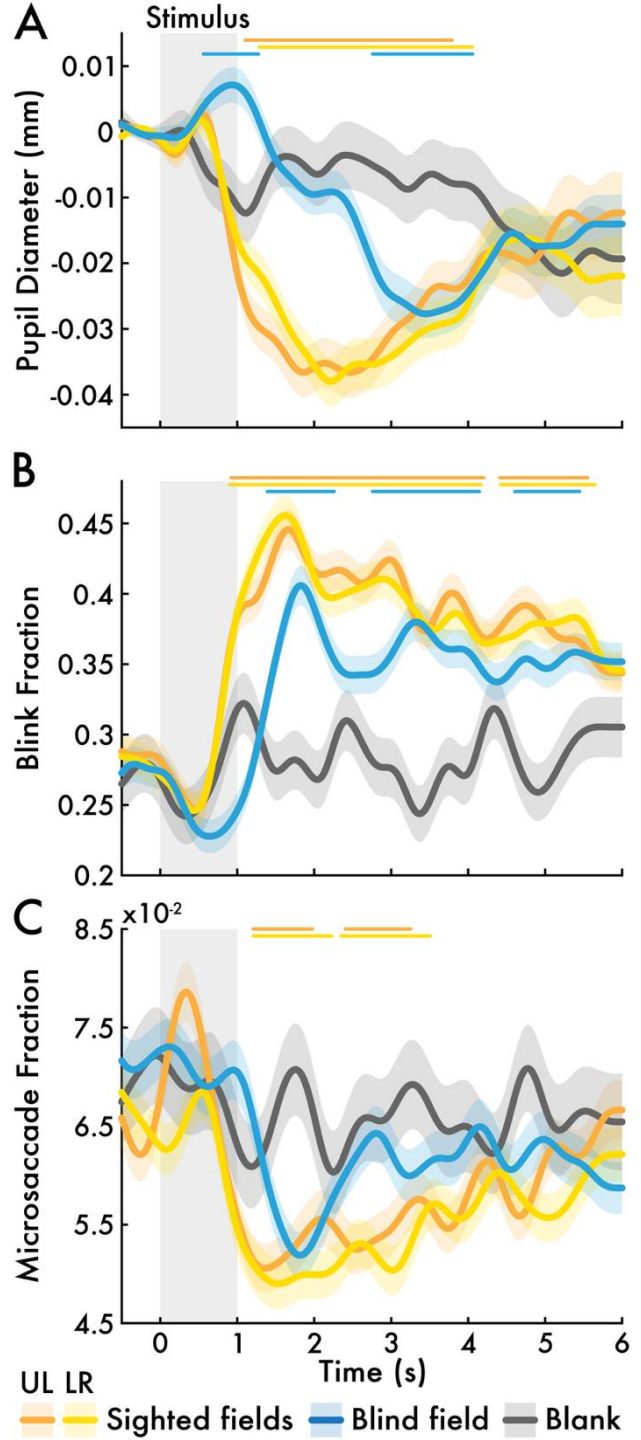
Seth and Bayne, *Nature Reviews Neuroscience*, 2022



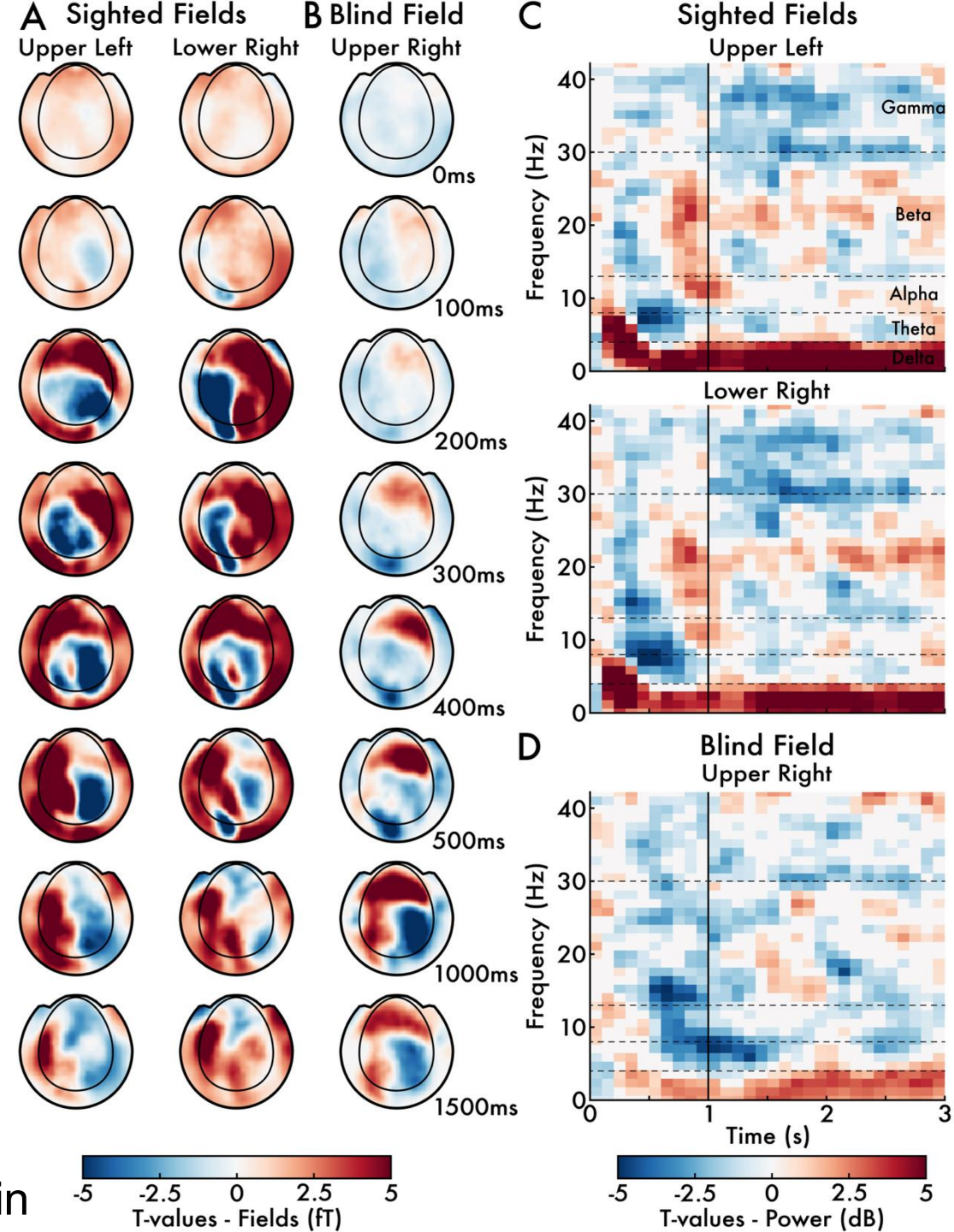


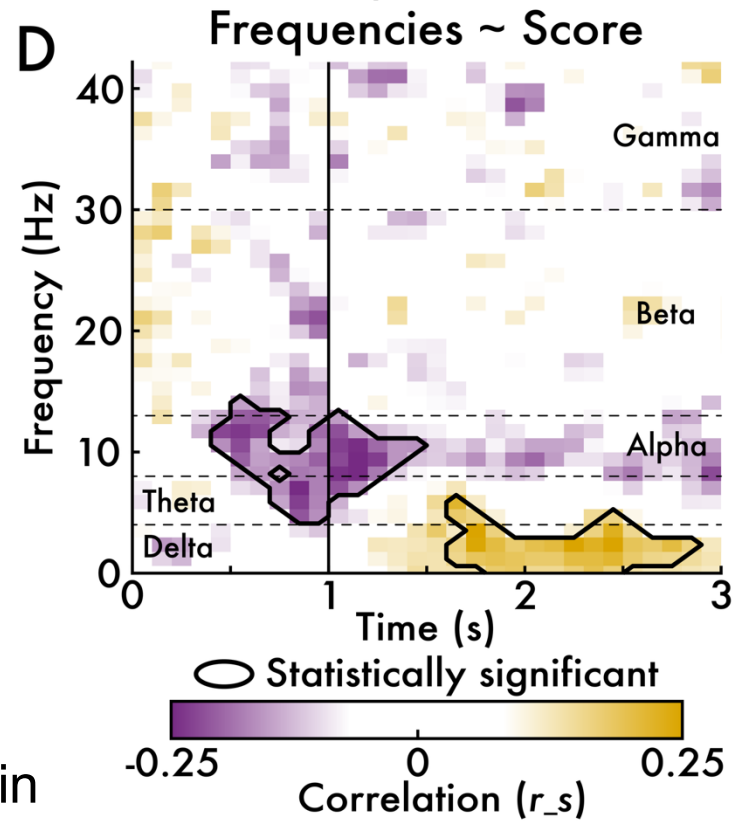
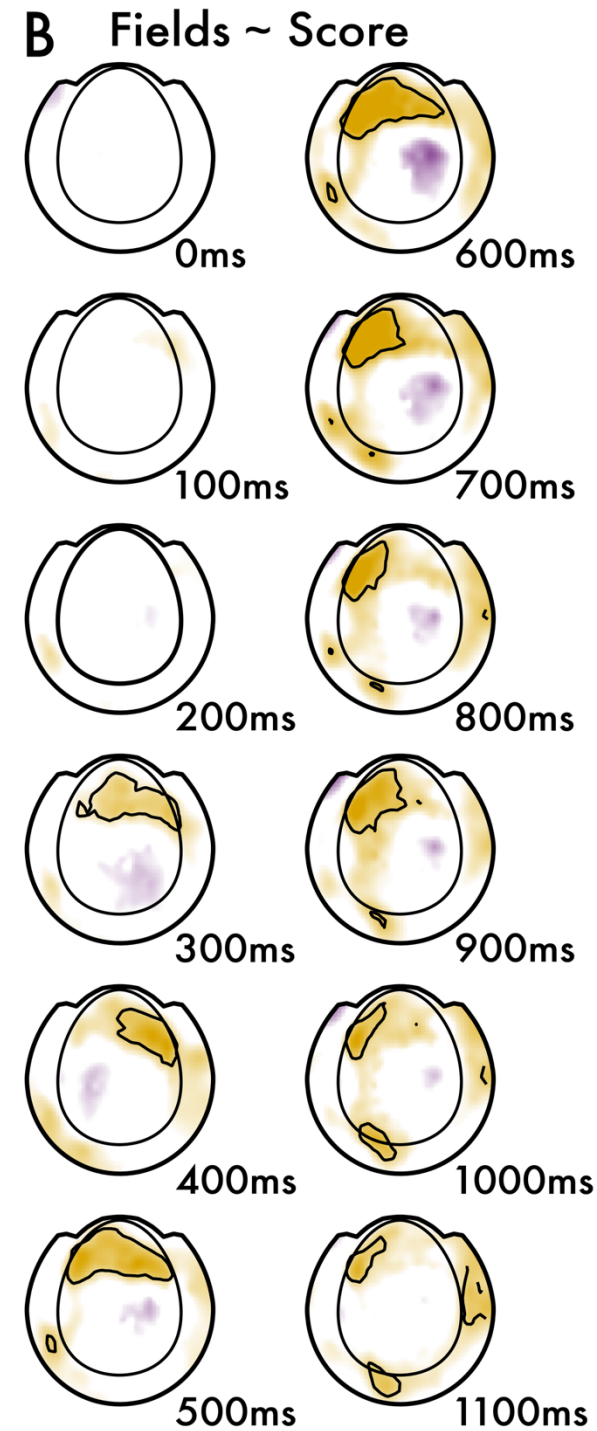
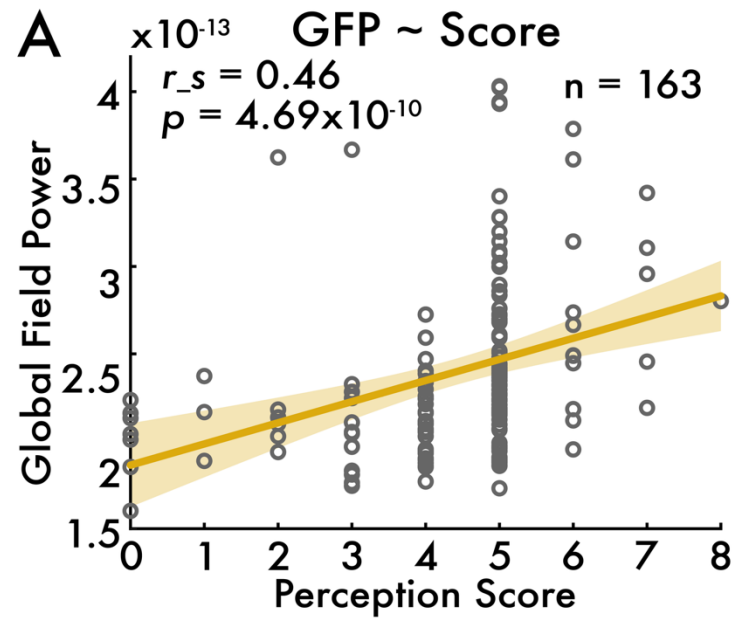
Kronemer, Levesque *et al.*, in

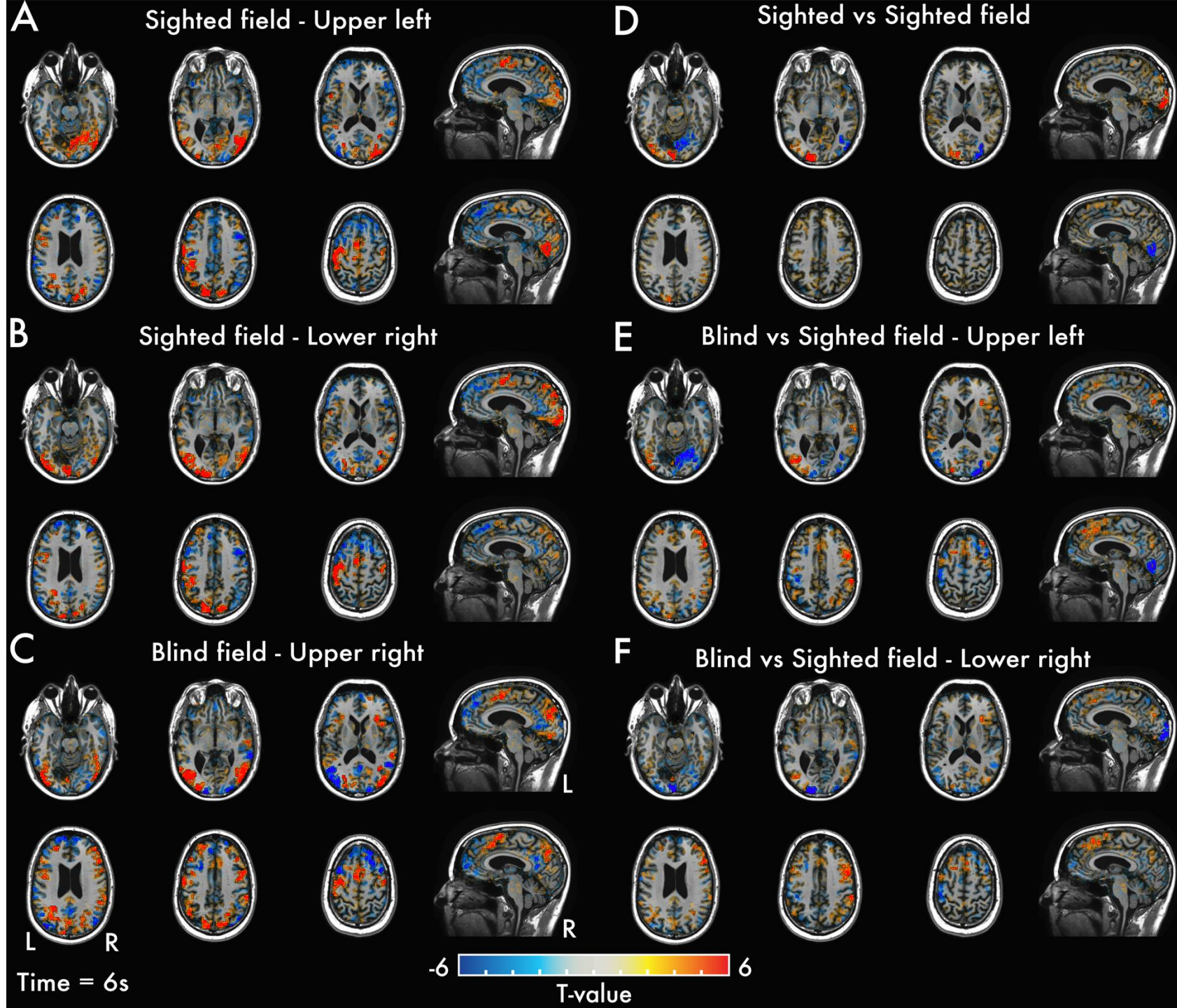
■ ■ Sighted fields 
 ■ Blind field 
 ■ Blank



Kronemer, Levesque *et al.*, in







## NIMH & NINDS



Peter Bandettini



Burak Akin



Catherine Walsh



A. Tyler Morgan



Pete Molfese



Jeff Stout



Cassie Levesque



Dan Handwerker



Tori Gobo



Javier Gonzalez-Castillo



Josh Teves



L. Christine Turtzo



Micah Holness



Shruti Japee



Grace Edwards



Amaia Benitez Andonegui



Aria Wang



Josh Faskowitz  
**Harvard**



Anna Namyst



Paul Taylor



Plyfaa Suwanamalik-Murphy



Eli Merriam



Diana Burke



Renzo Huber

## Georgetown



Tina Liu



Beth Rispoli



Benjamin Osborne

## Yale



Hal Blumenfeld



Francois Stockart

## San Jose State



Bahar Shamsavarani



National Institute  
of Mental Health

Thank you to Mike Reel,  
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