

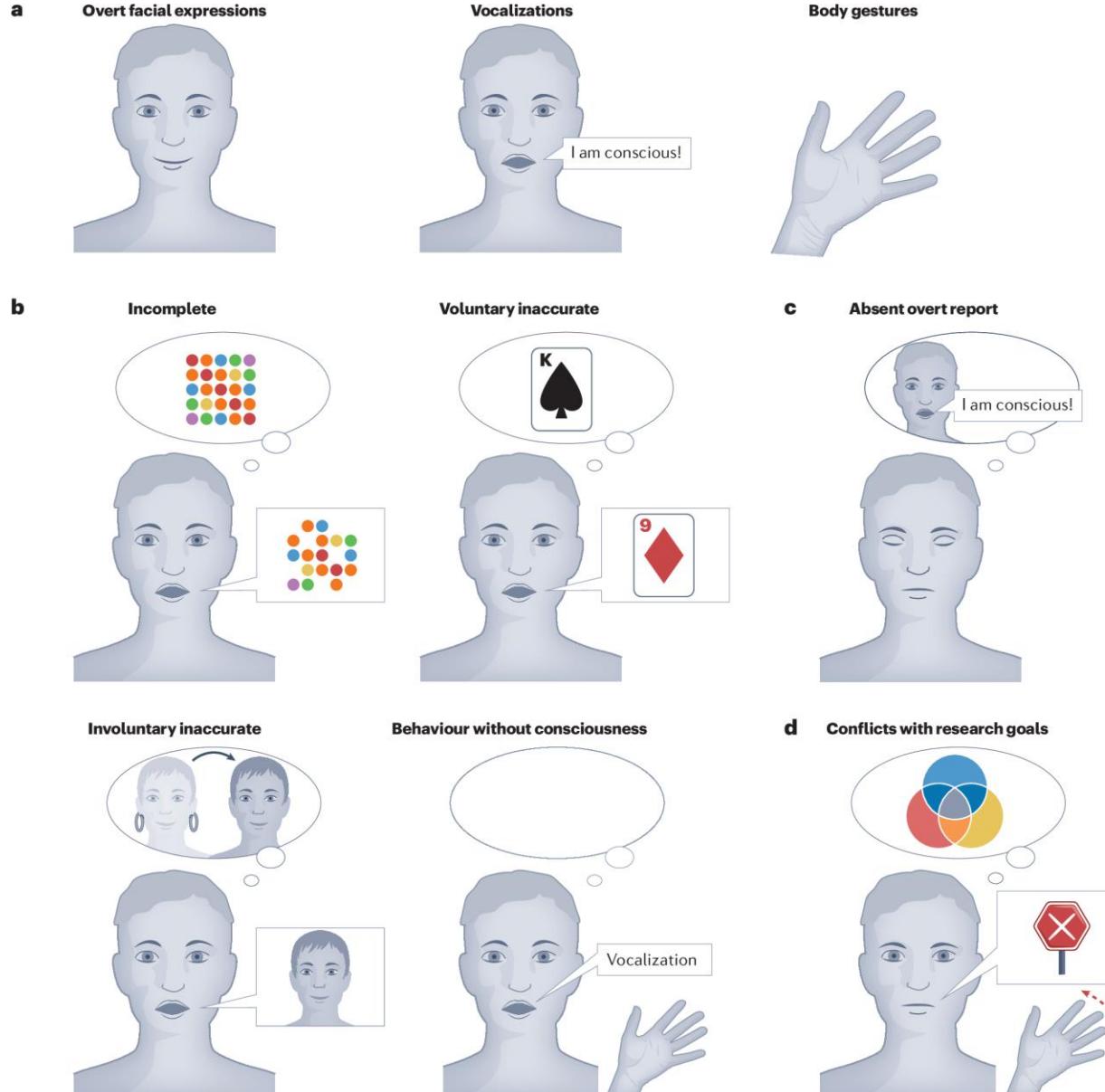
Visual Conscious Awareness and Neural Processing Are Linked to Eye Metrics in Cerebral Blindness

**Sharif I. Kronemer, PhD
ASSC 25**

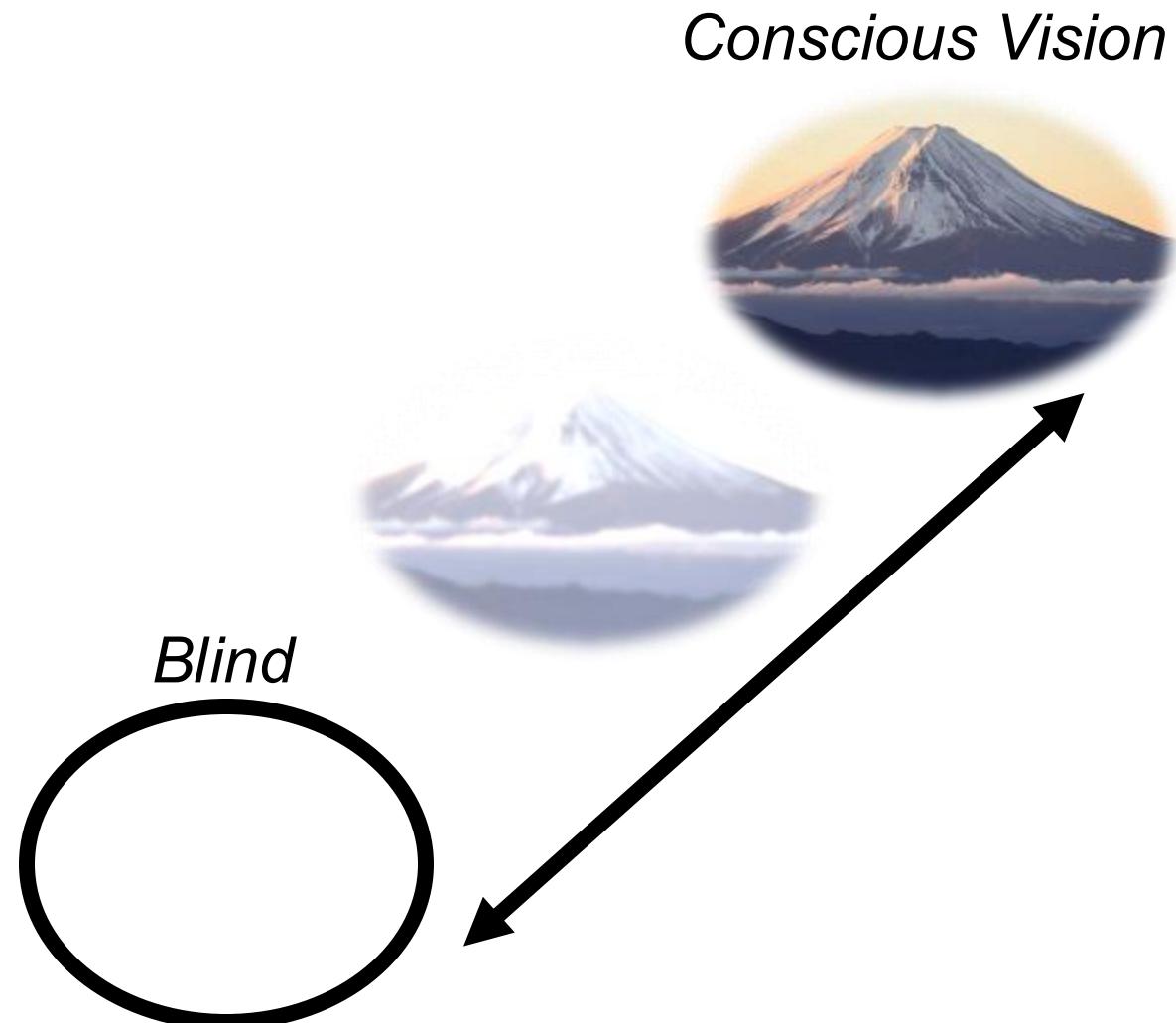
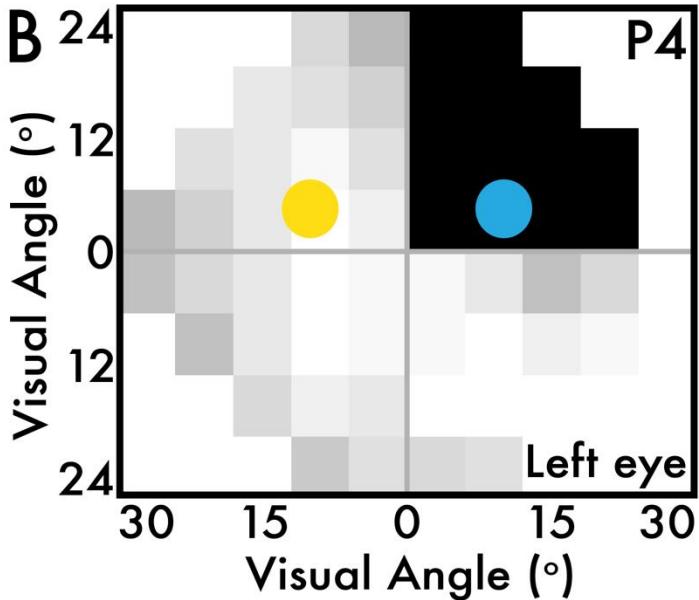
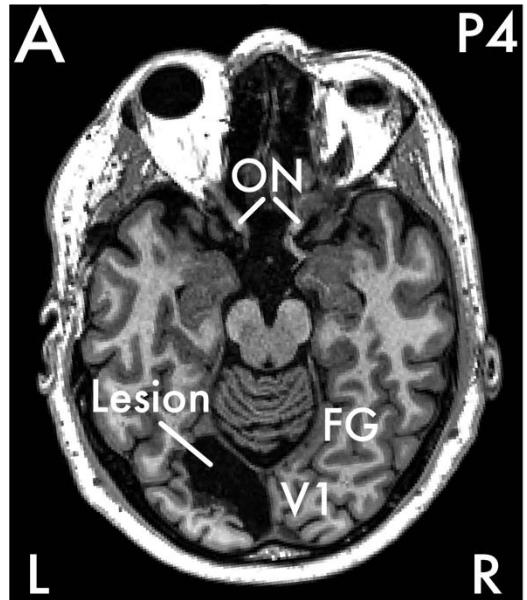
*Victoria E. Gobo, Shruti Japee, Eli
Merriam, Benjamin Osborne, Peter
A. Bandettini, & Tina T. Liu*



Consciousness is Private

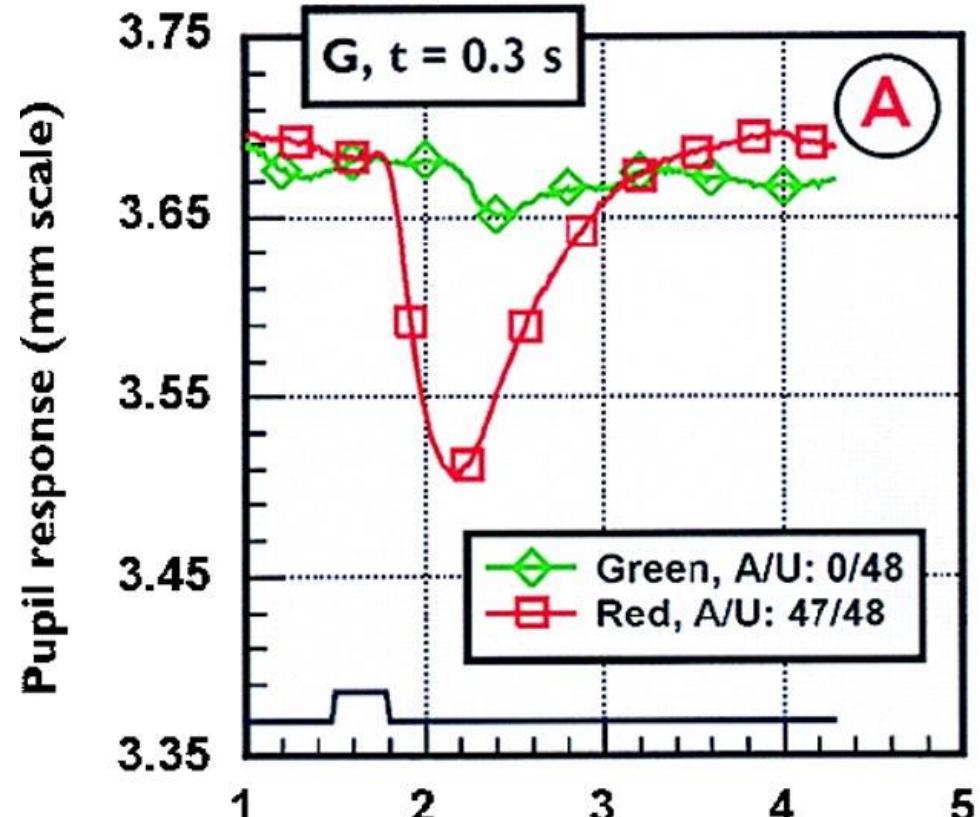
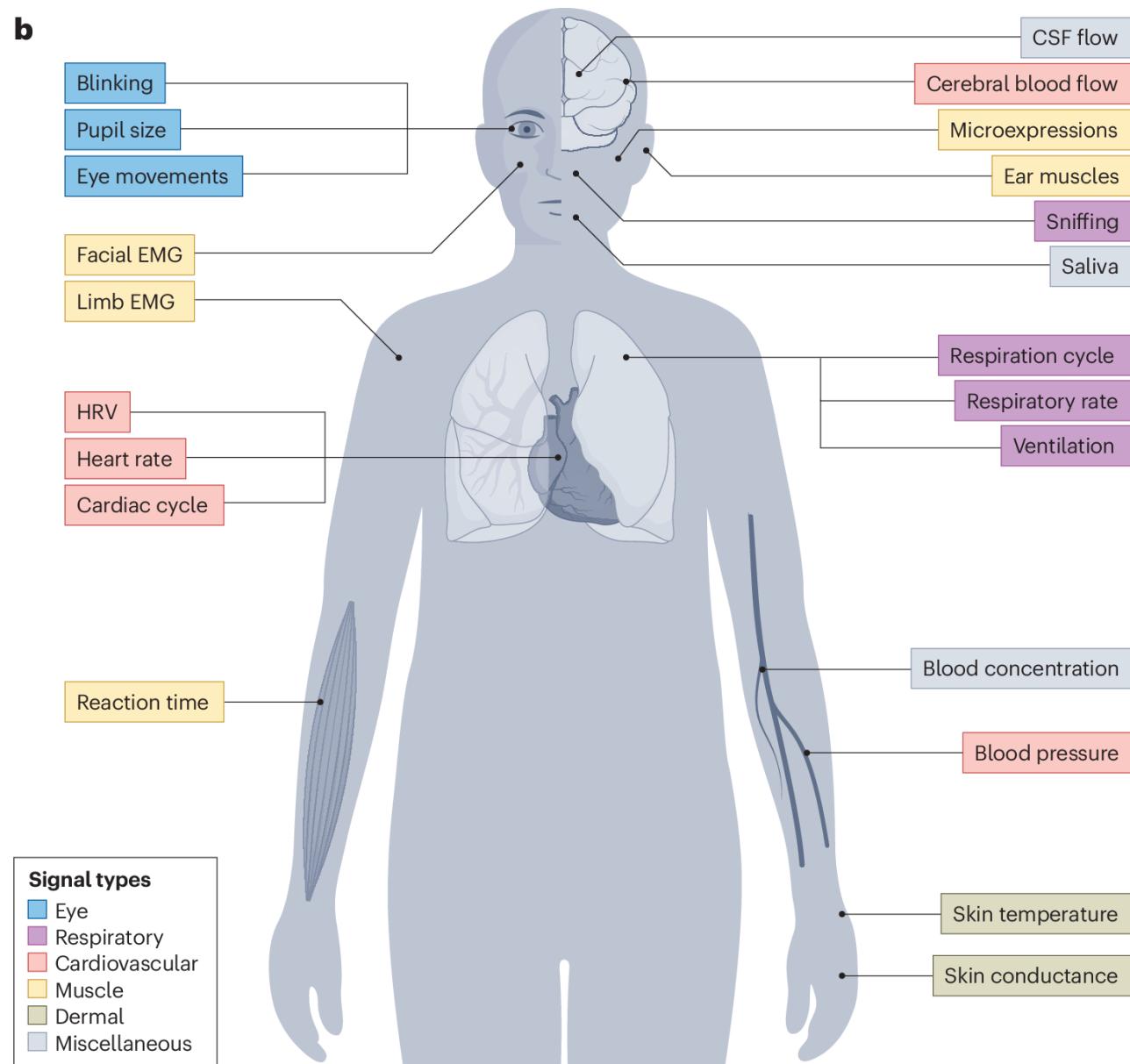


What do Cerebrally Blind People “See”?



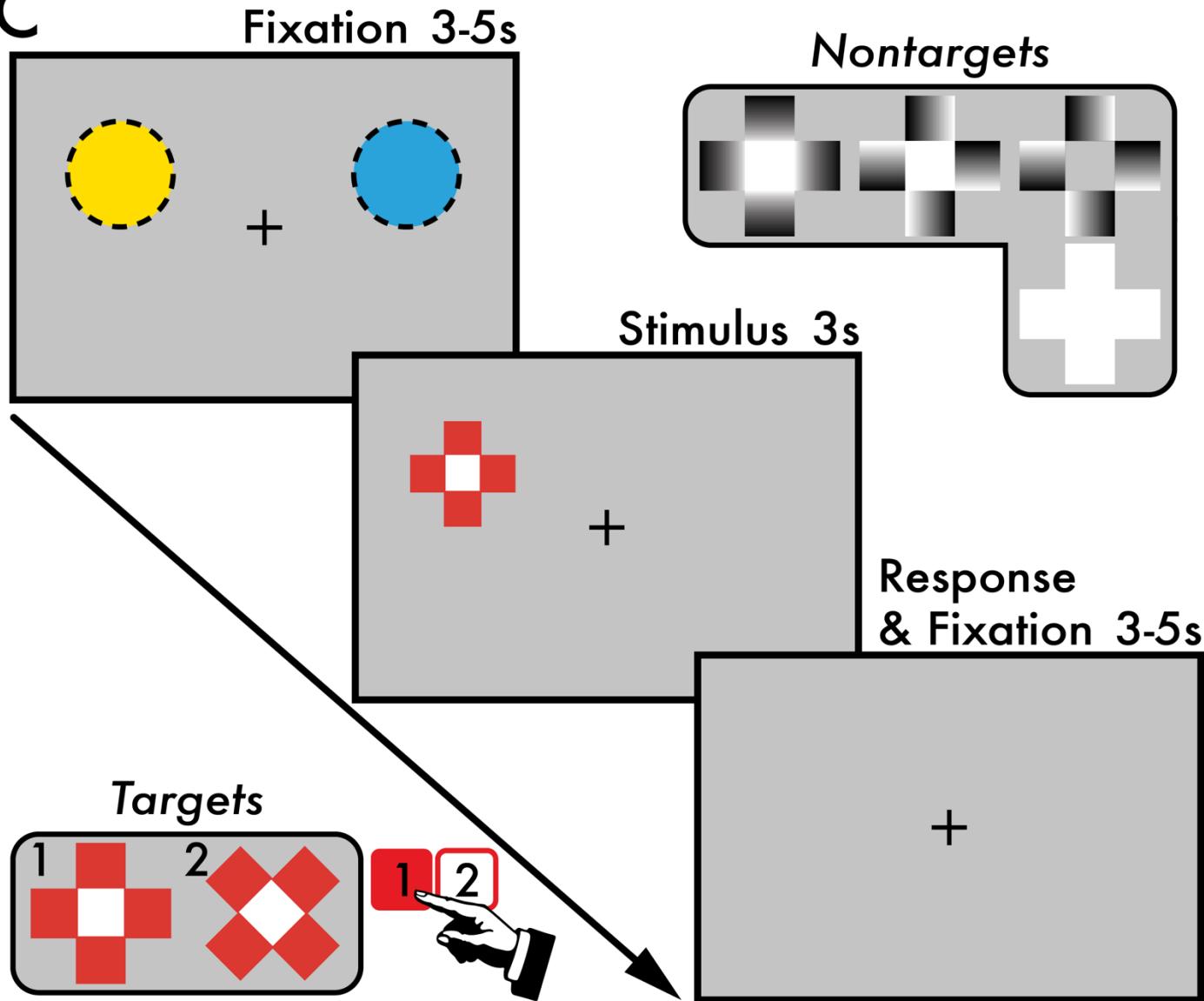
Covert Measures of Consciousness

b



Paradigm & Behavioral Results

C

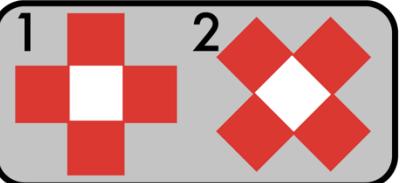


Nontargets

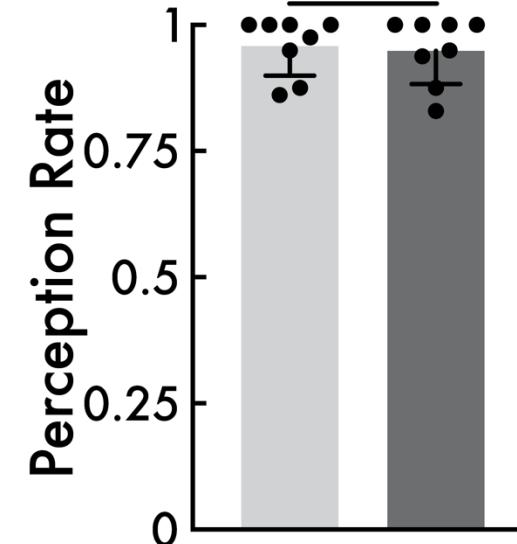
Stimulus 3s

Response
& Fixation 3-5s

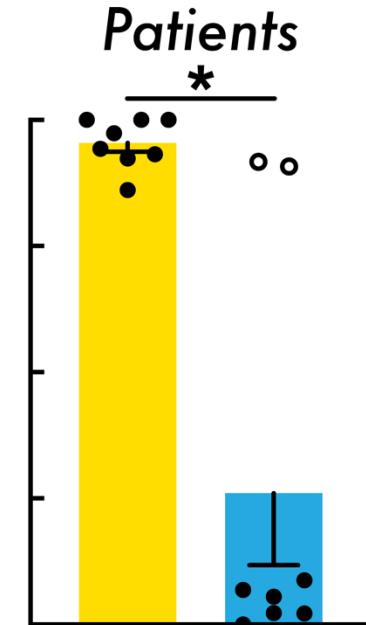
Targets



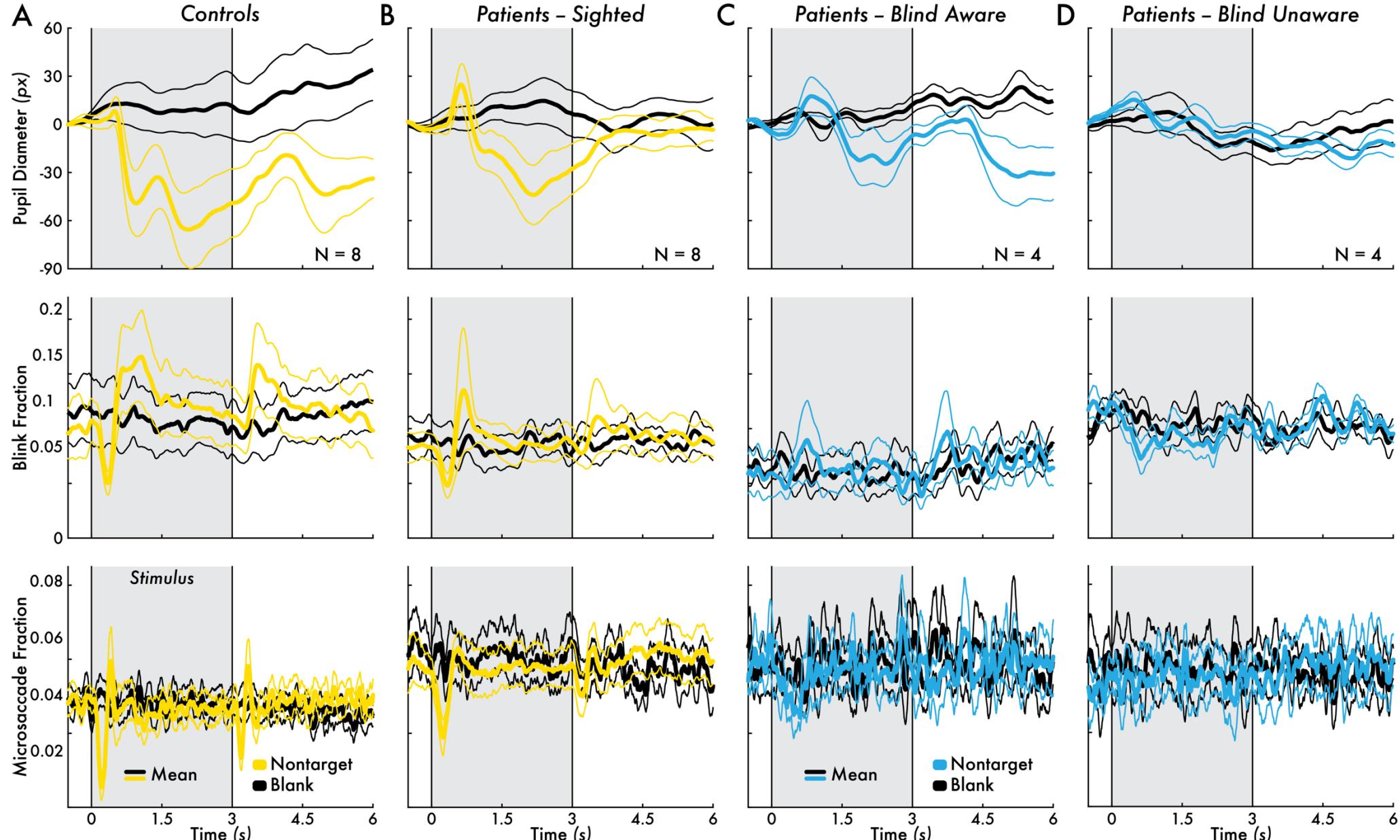
A

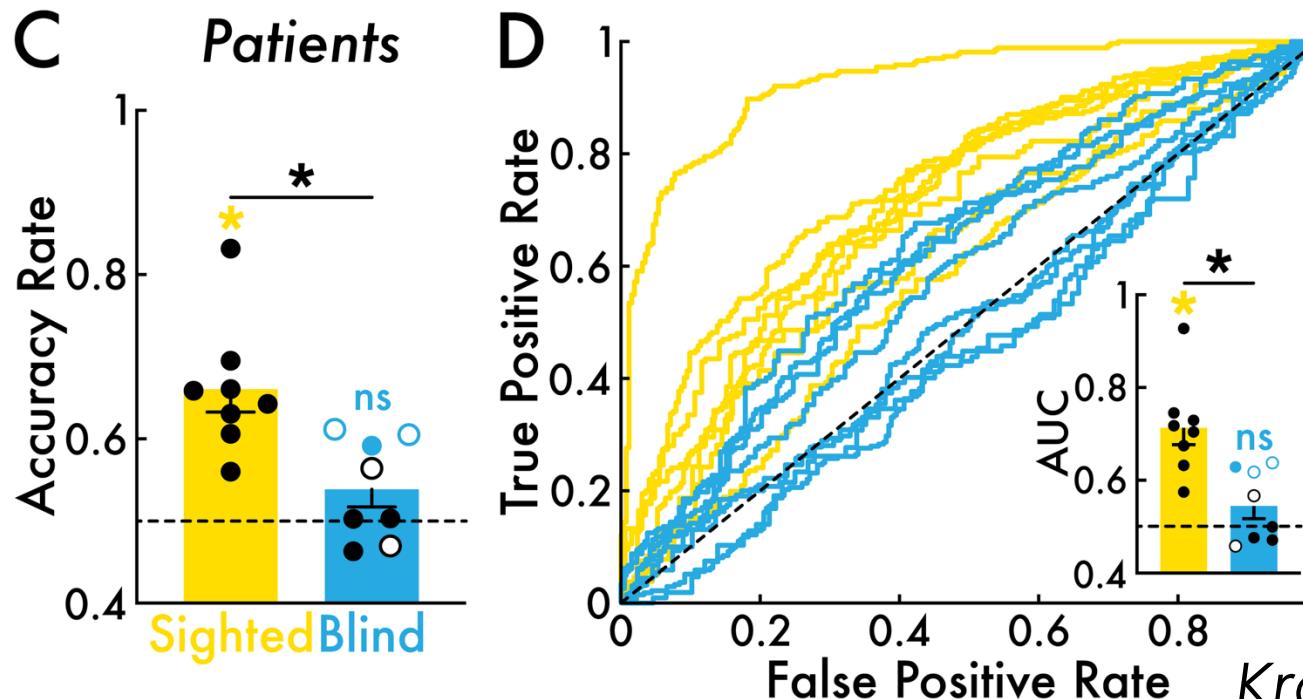
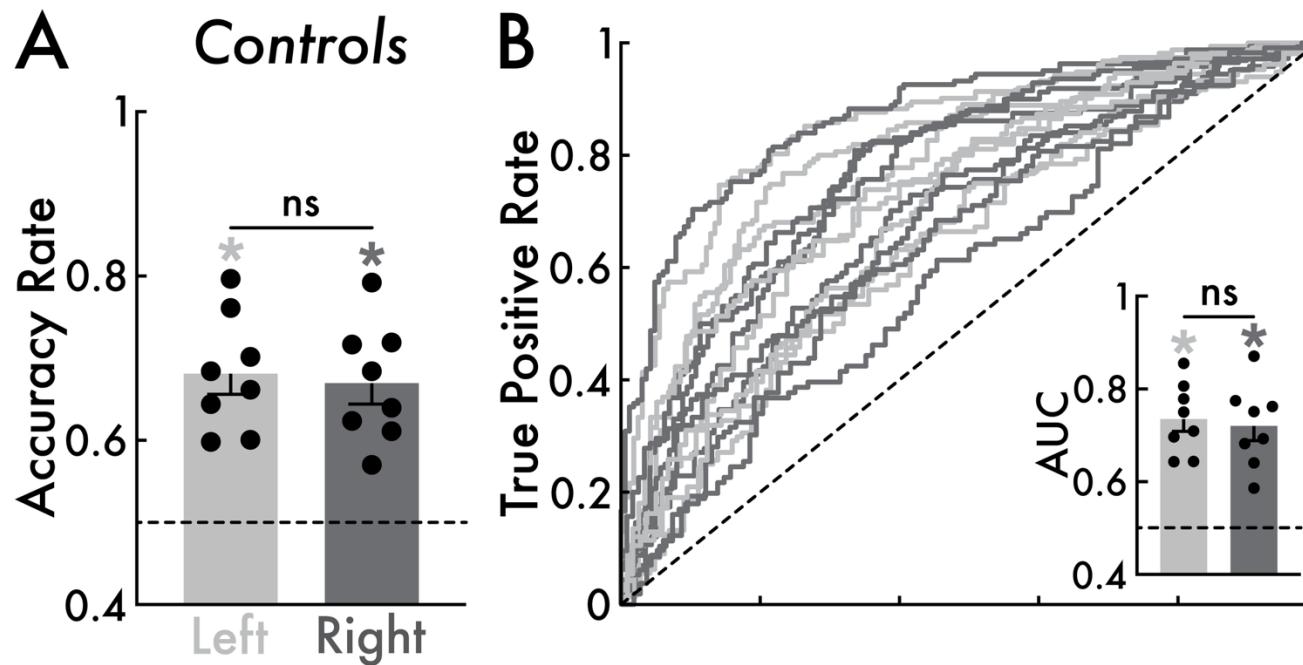


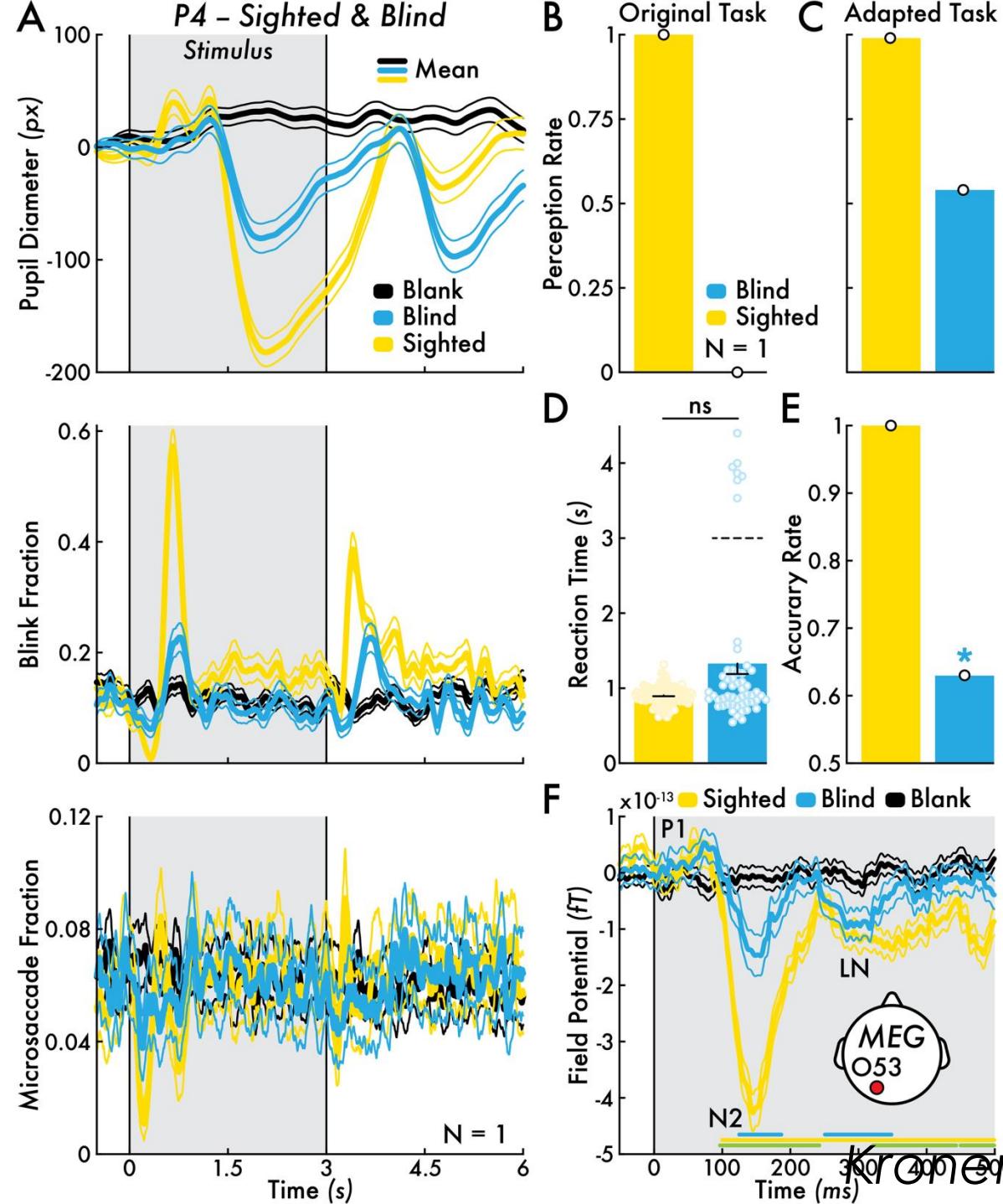
B



Visual-evoked Eye Metrics Dynamics







Acknowledgements

SFIM & LBC

Peter Bandettini

Tori Gobo

Shruti Japee

Eli Merriam

Burak Akin

Fernando Ramirez

Josh Faskowitz

Tyler Morgan

Renzo Huber

Josh Dean

Cassie Levesque

Stephanie Swegle

Marly Rubin

Plyfaa Suwanamalik-

Murphy

*Thank you to the
volunteers and their
families!*

Georgetown

Tina Liu

Benjamin Osborne

San Jose State

Bahar Shahsavari

Daniel Handwerker

Javier Gonzalez-Castillo

Catherine Walsh

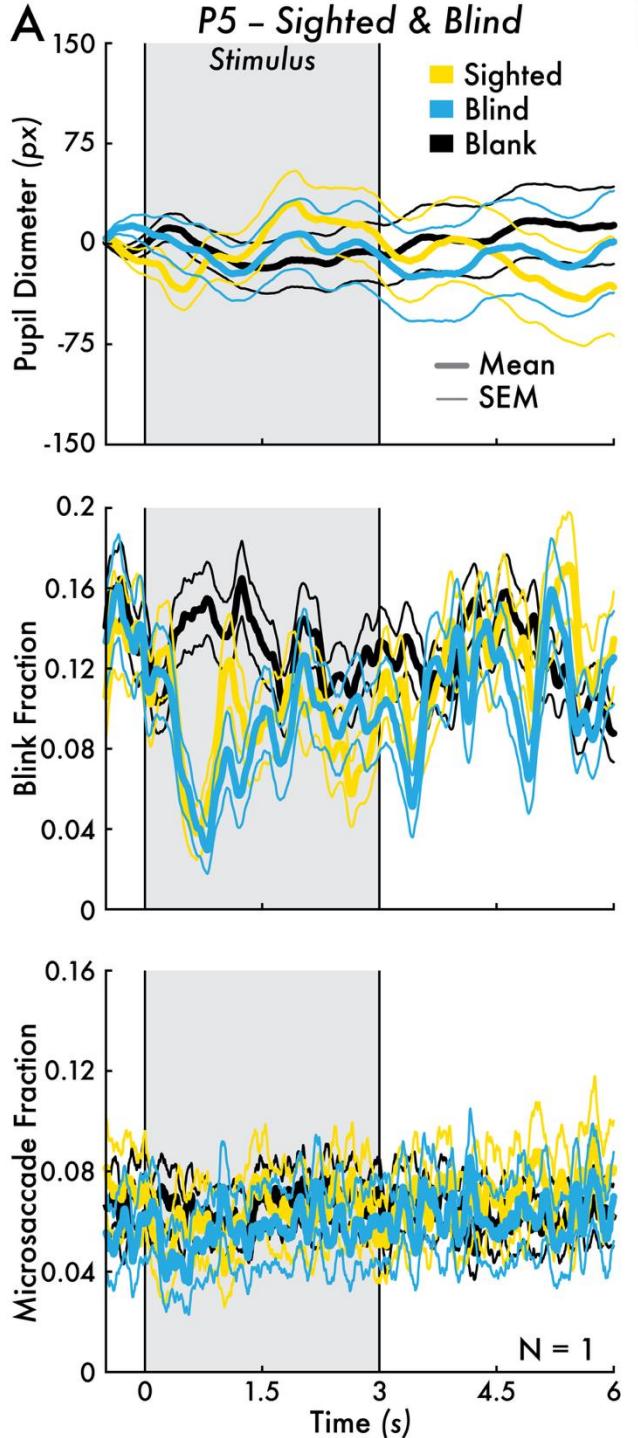
Dorian Van Tassell

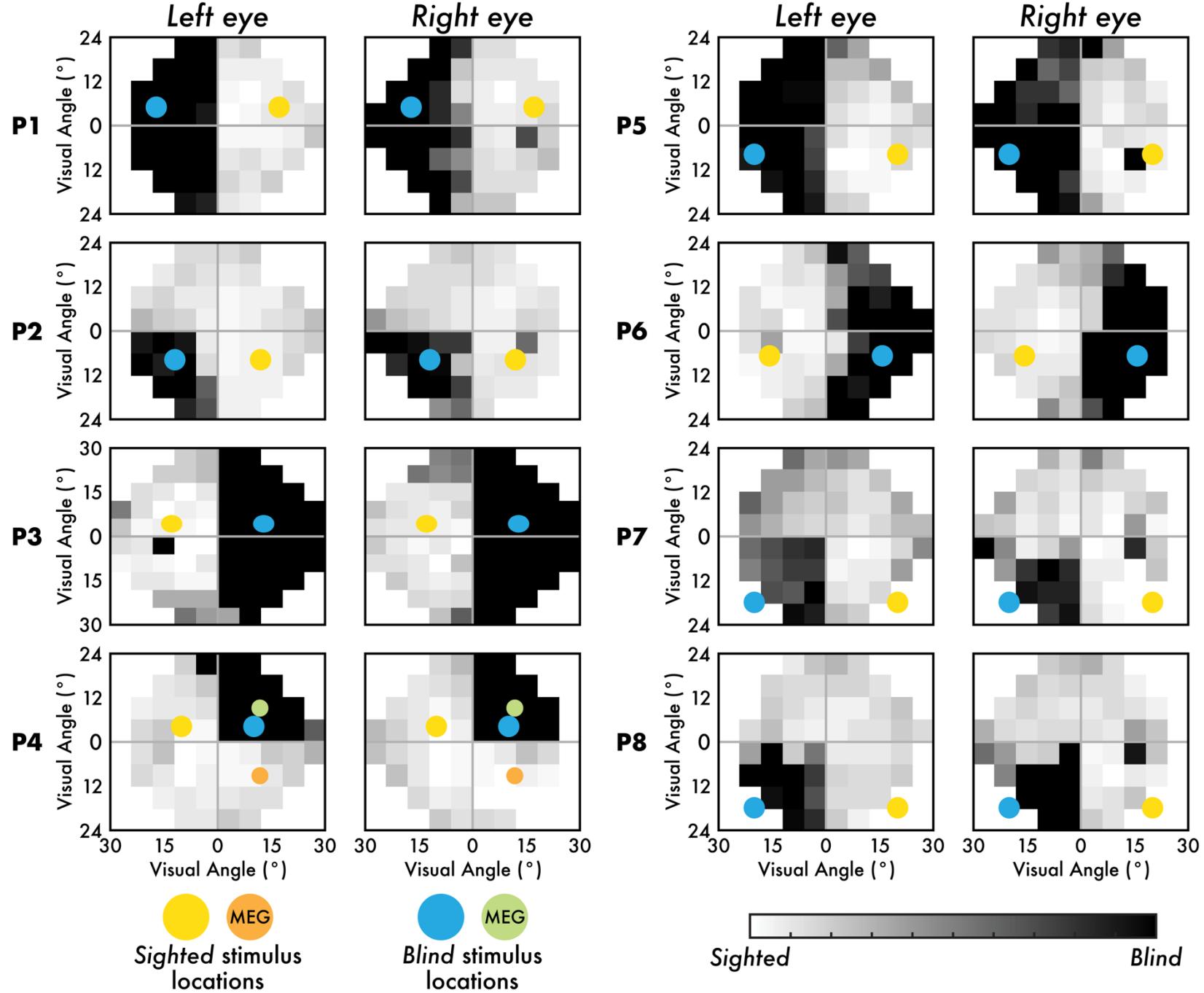


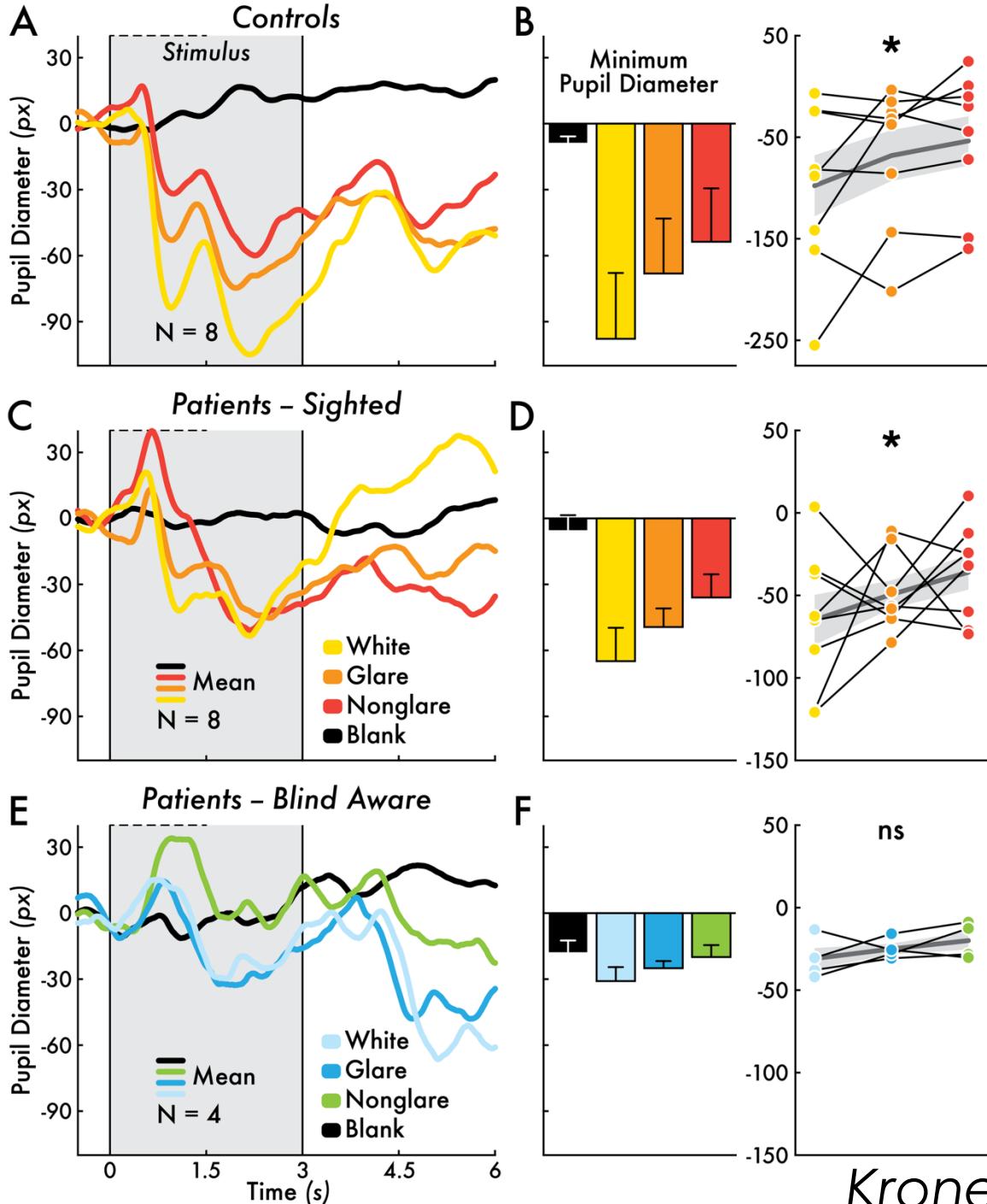
National Institute
of Mental Health

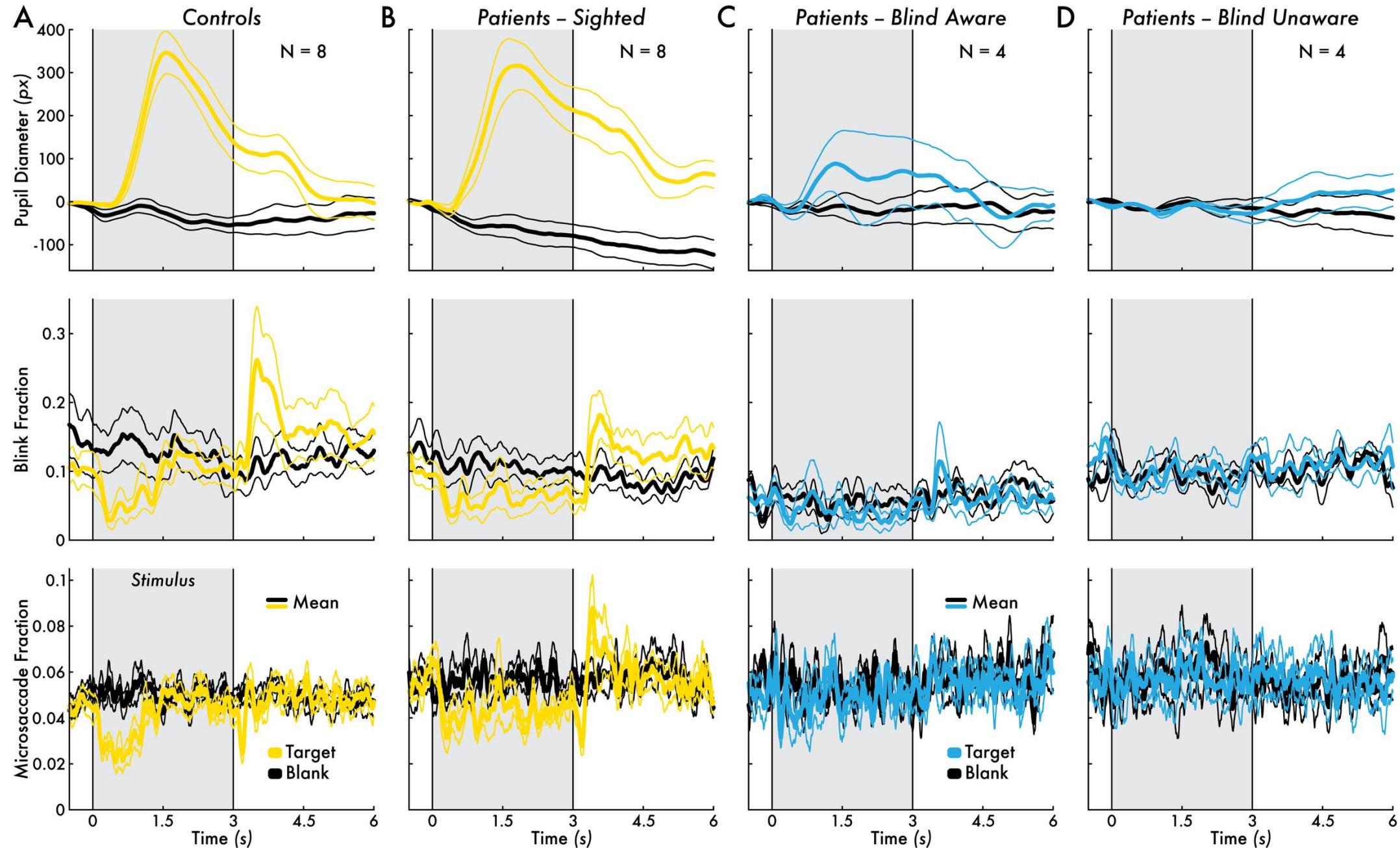
Email: sharif.kronemer@nih.gov
Website: sharifkronemer.com

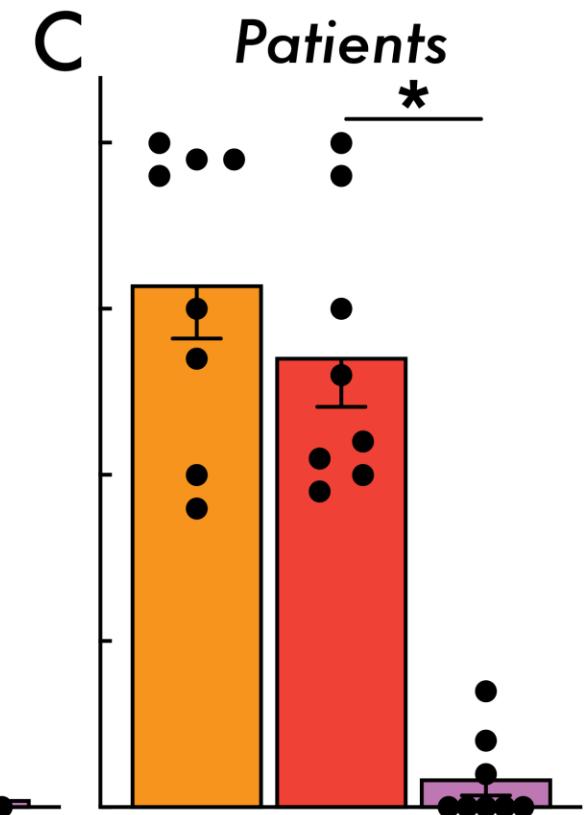
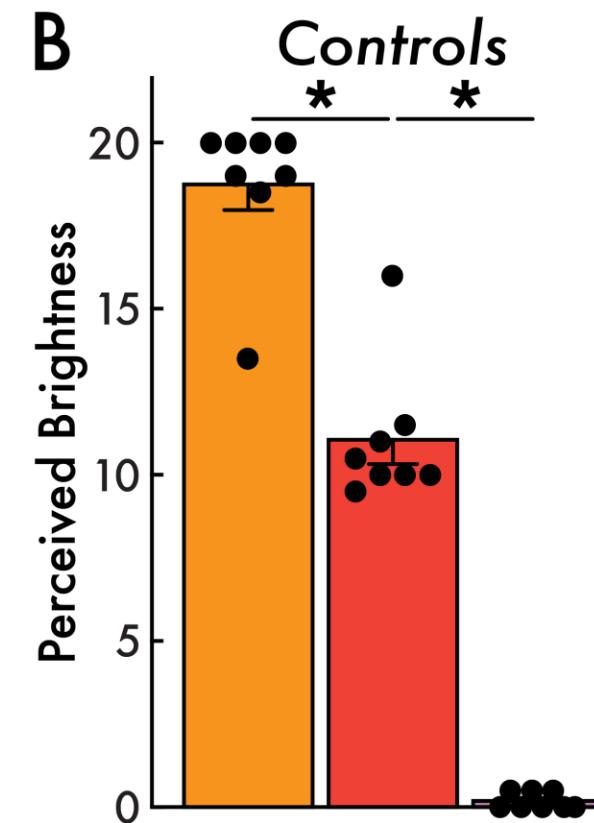
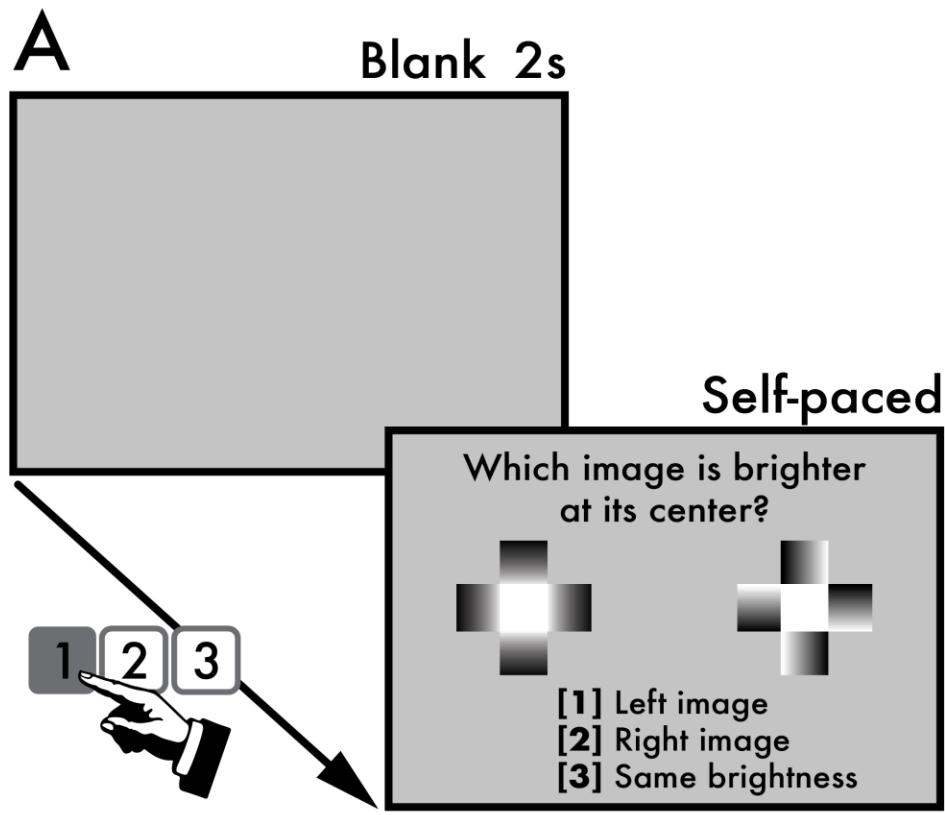
Extra Slides

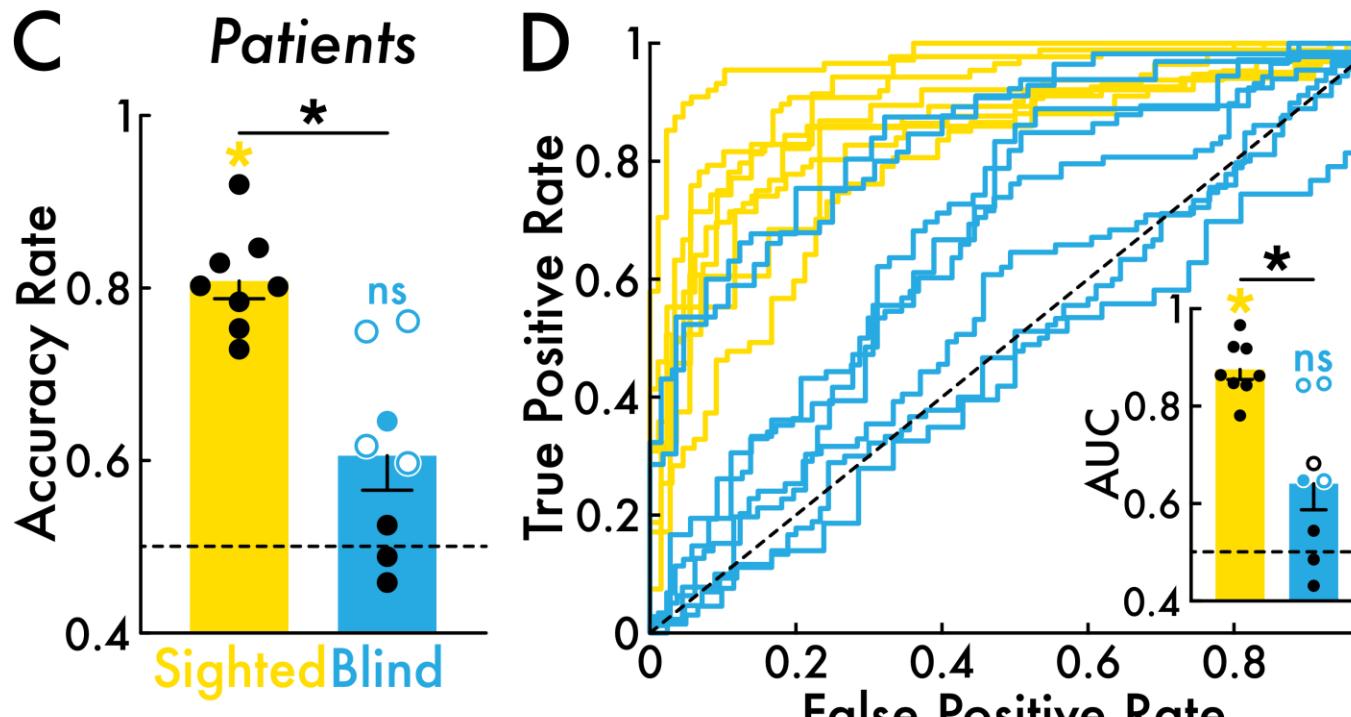
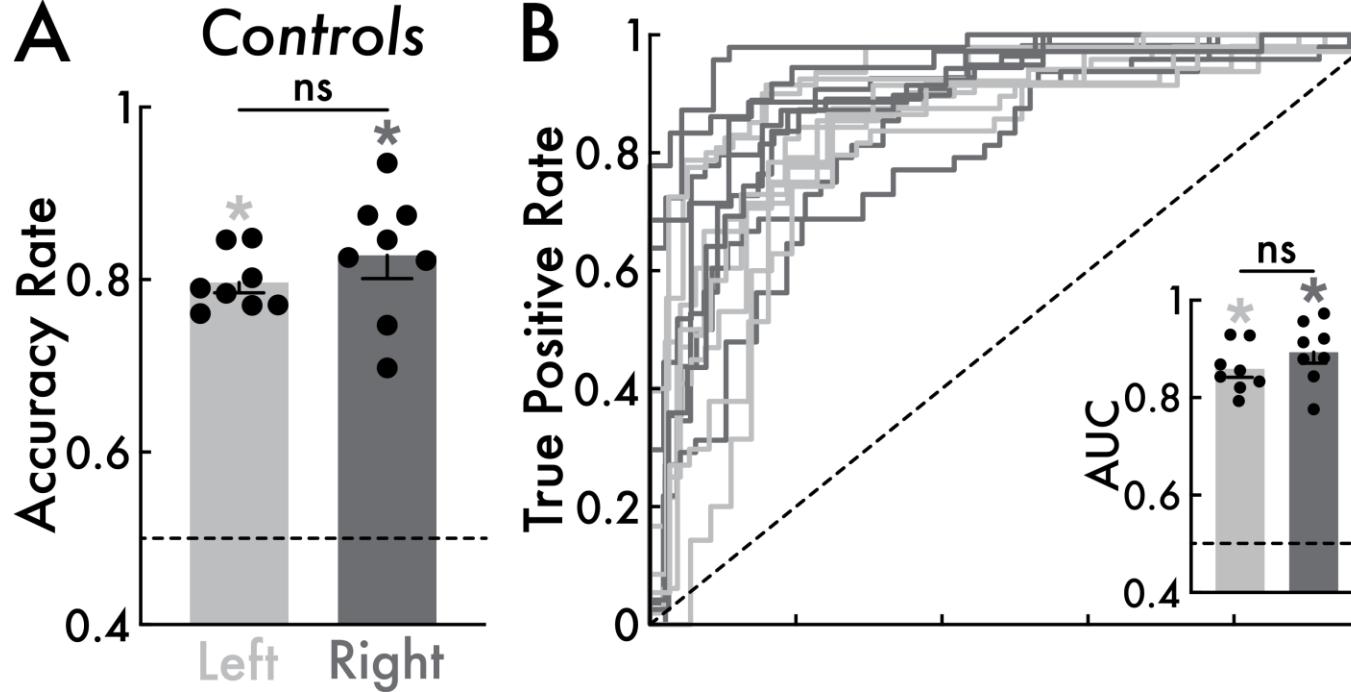


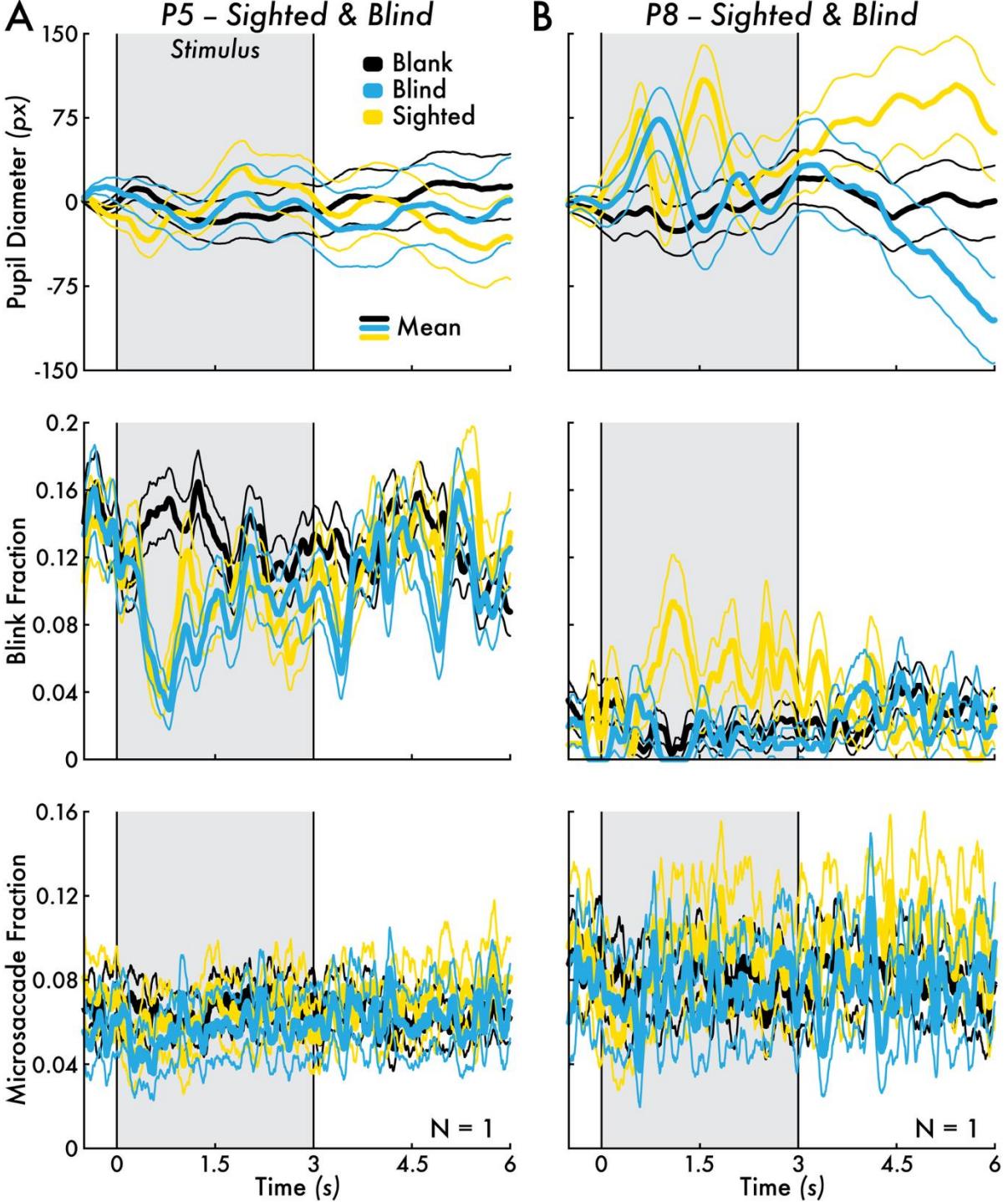


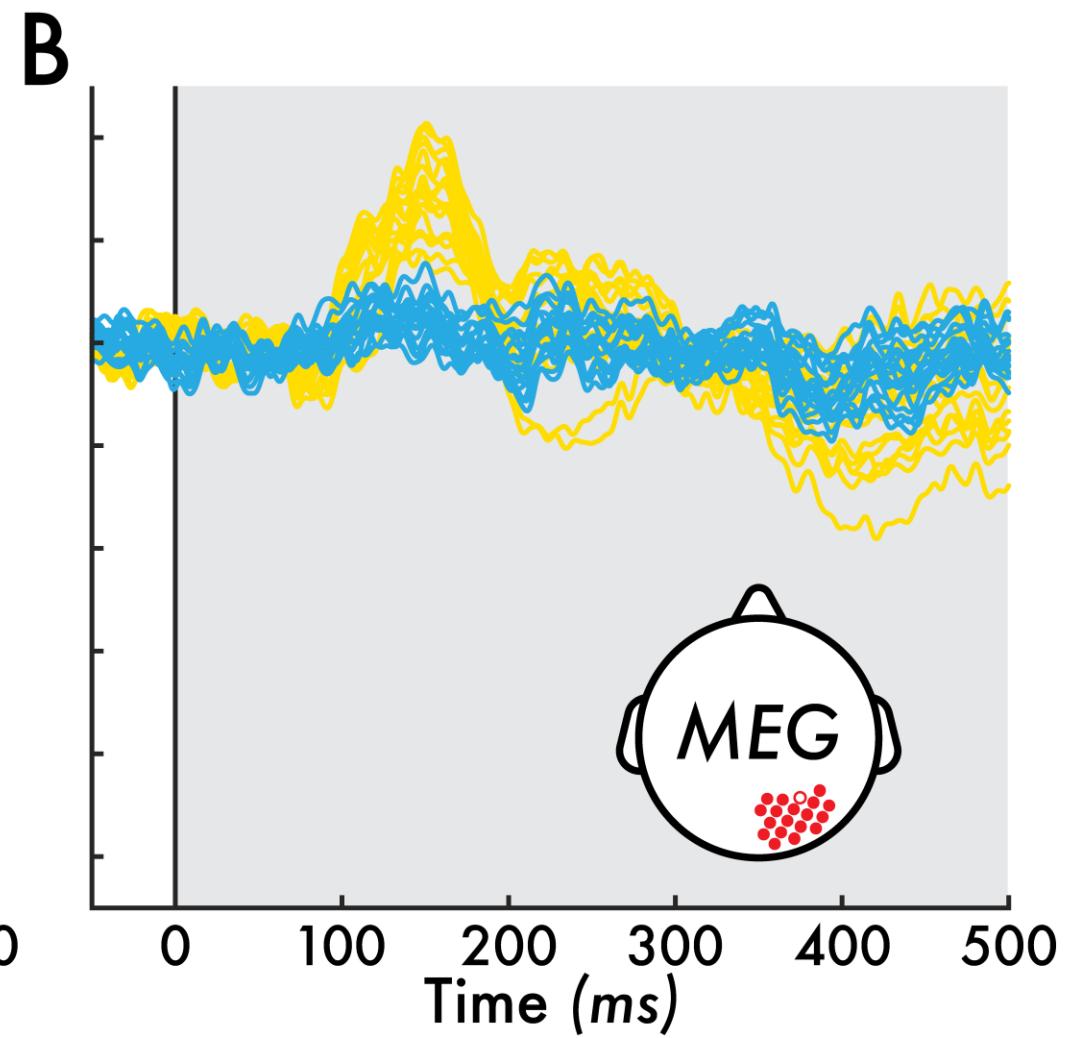
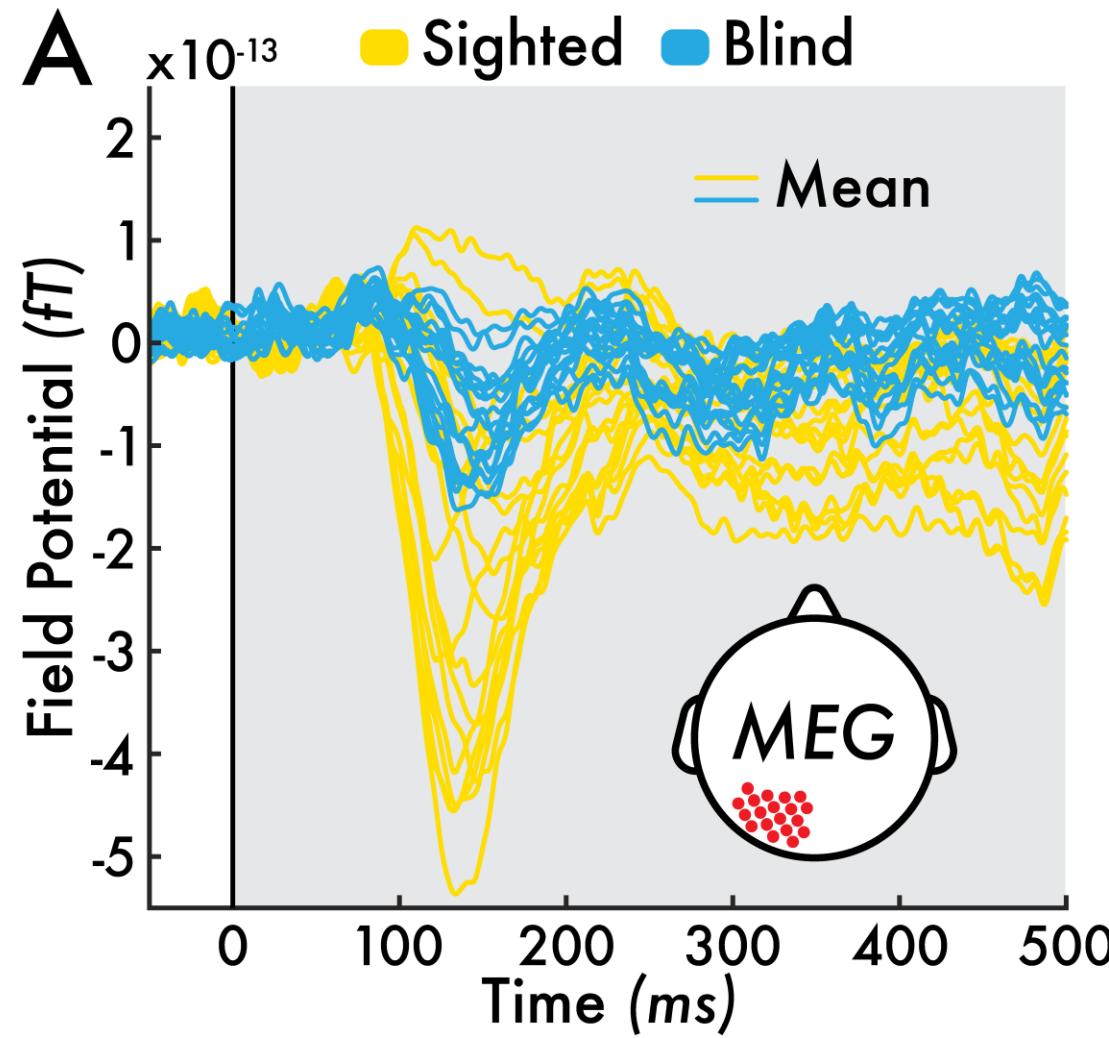


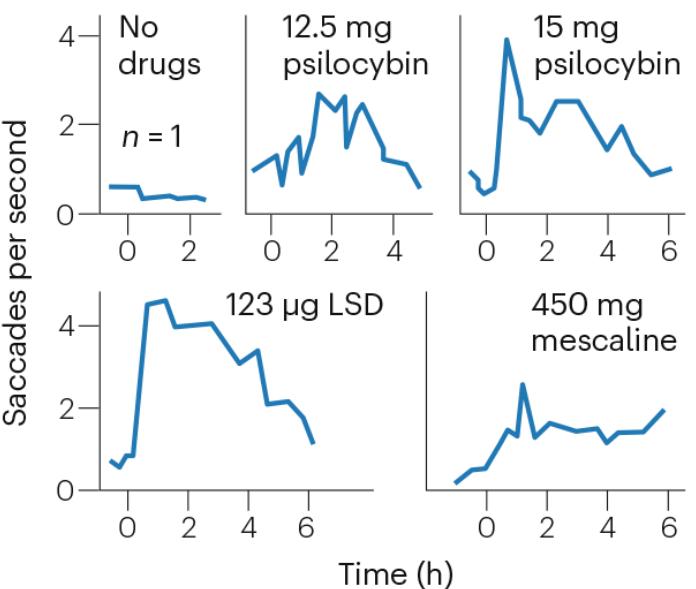
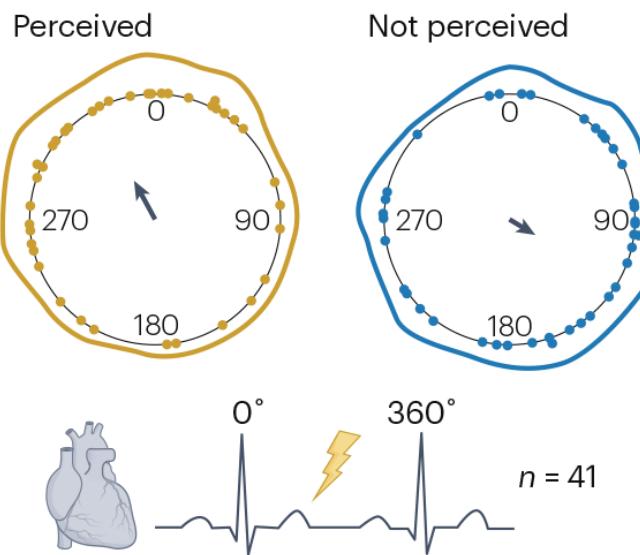
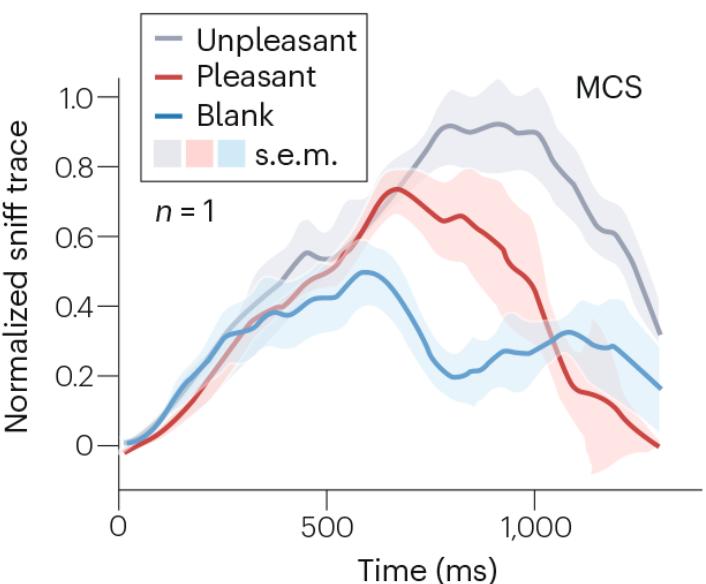
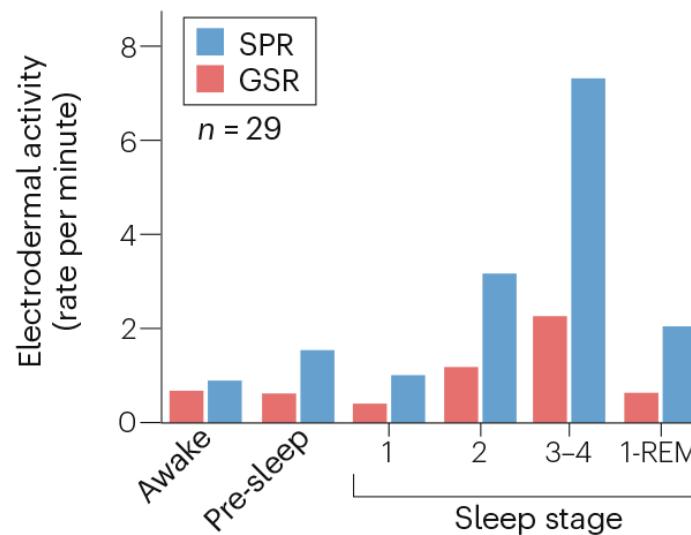


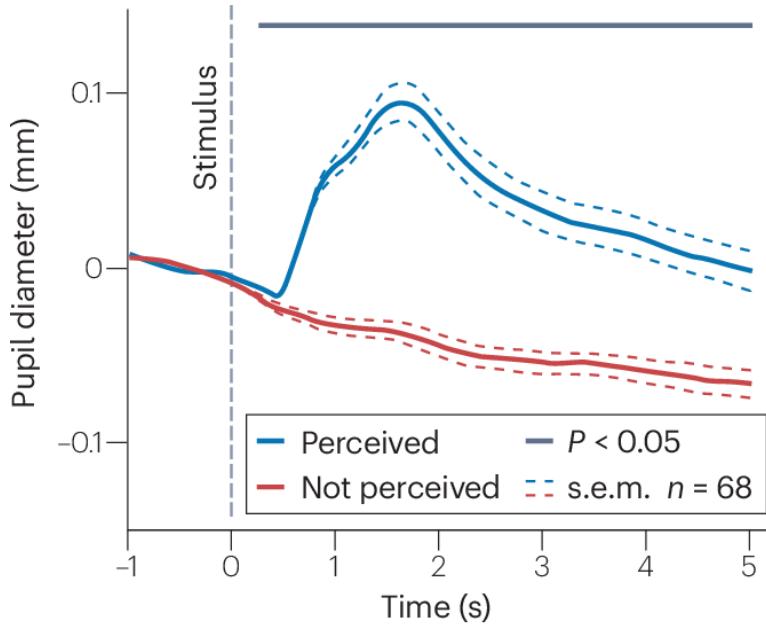
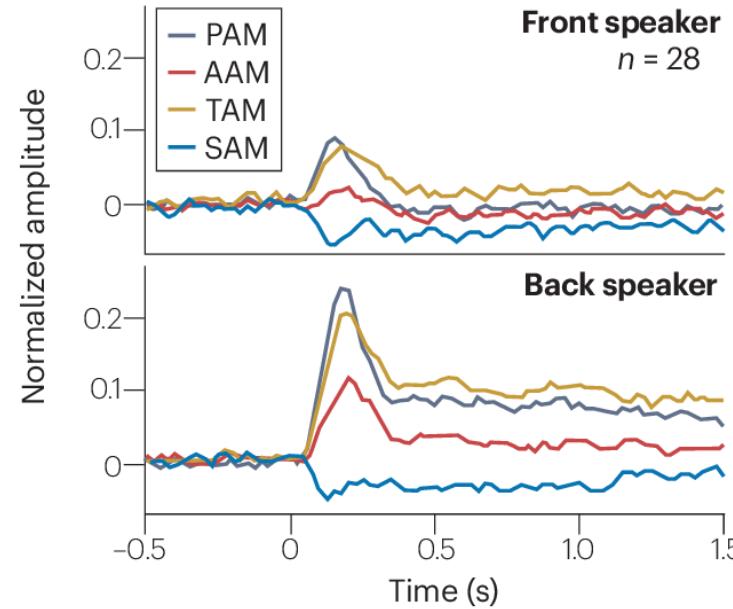
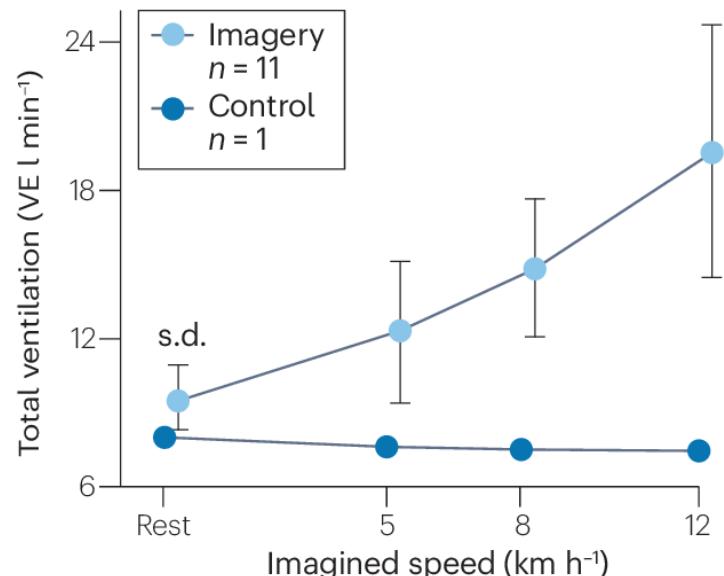








a Eye movements**b Cardiac cycle****c Sniffing****d Skin conductance**

a Pupil size**b Ear muscles****c Ventilation****d Skin conductance**