

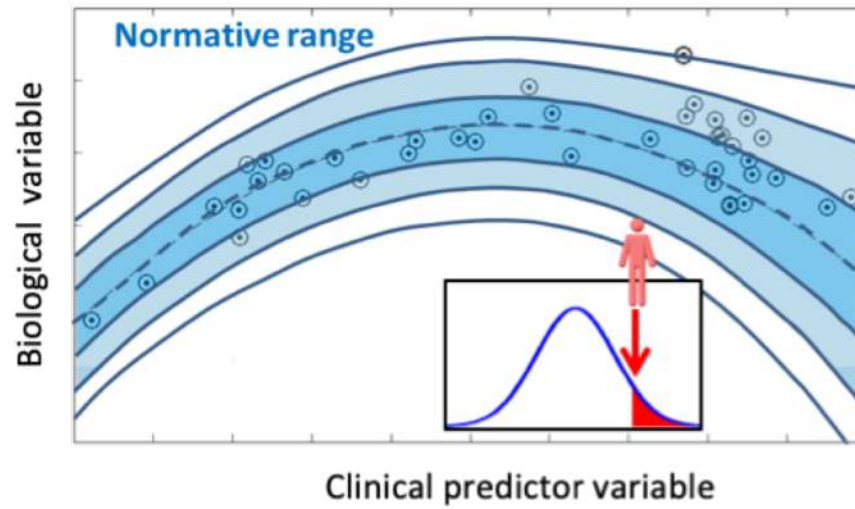
# How to use Normative Modeling?

Computational Psychiatry Course

Saige Rutherford  
Thomas Wolfers

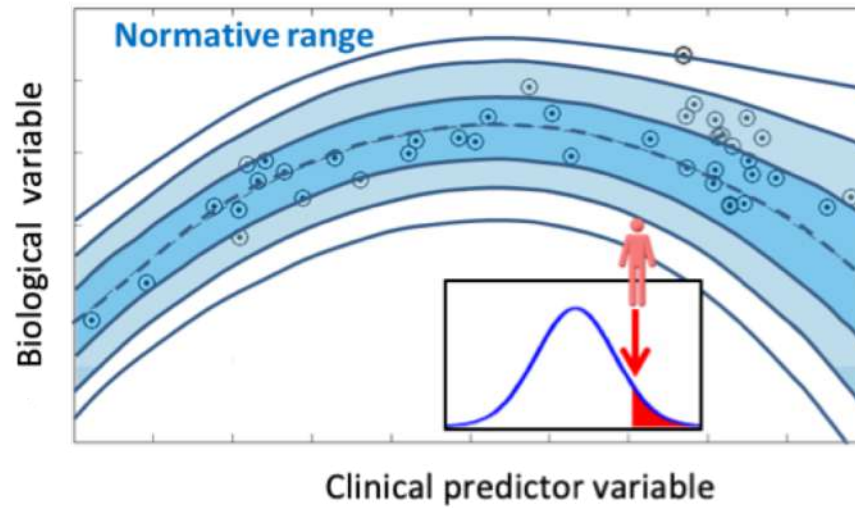


## METHODS



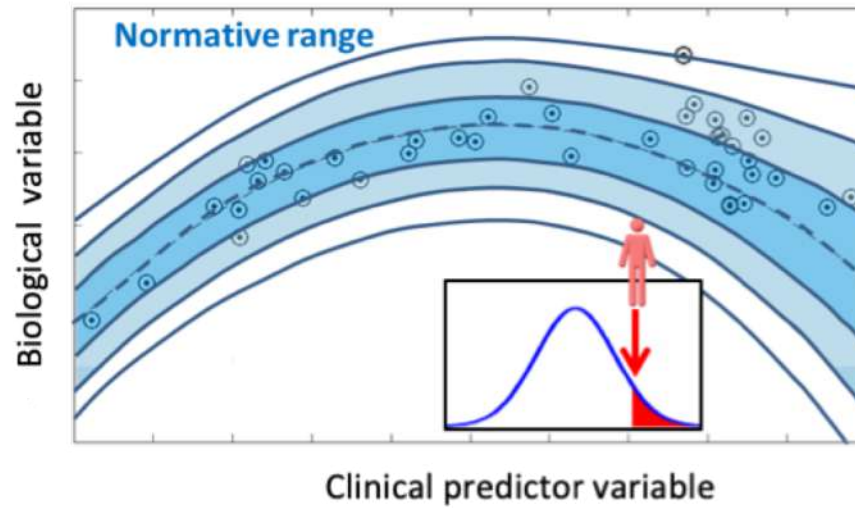


## METHODS





## METHODS

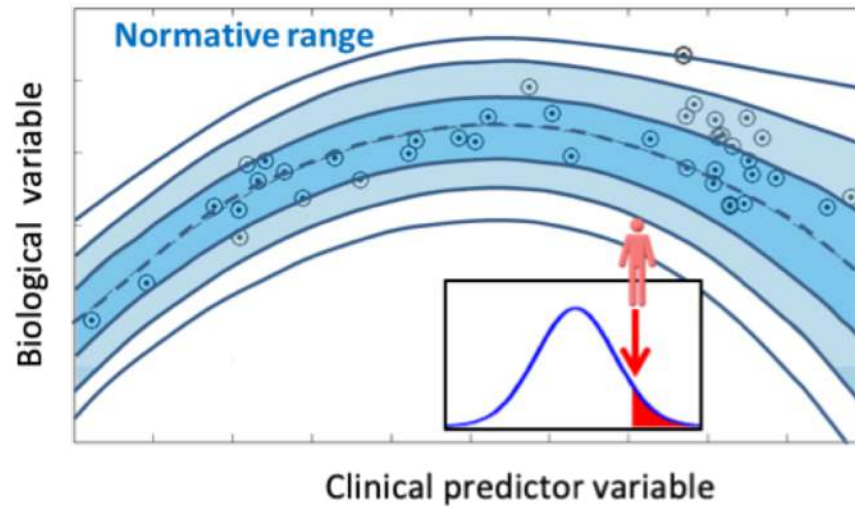


$$Z_i = \frac{y_i - \mu_i}{\sqrt{\sigma^2 + \Sigma_{ij}}}$$



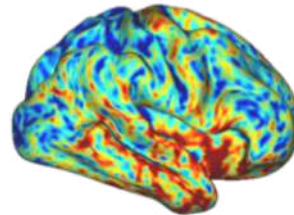
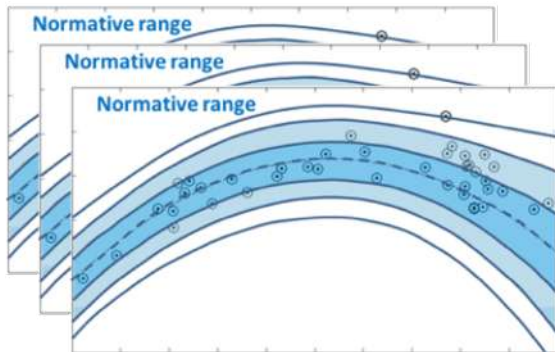
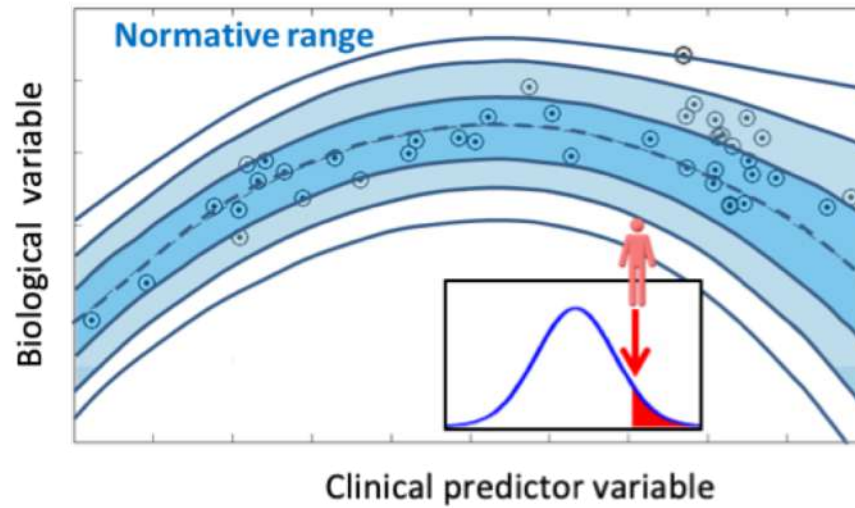


## METHODS

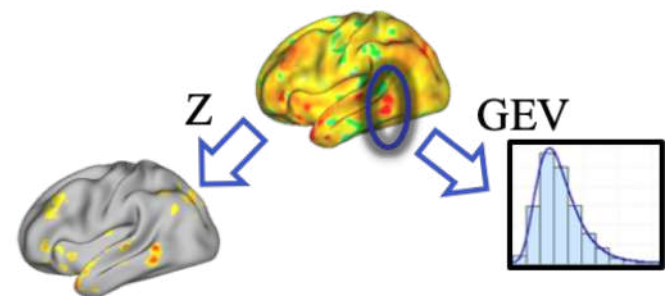
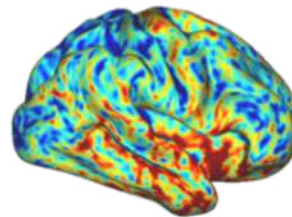
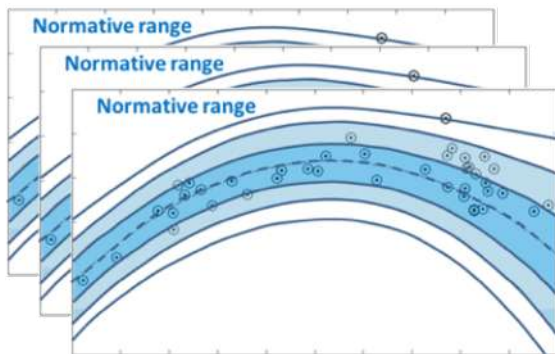
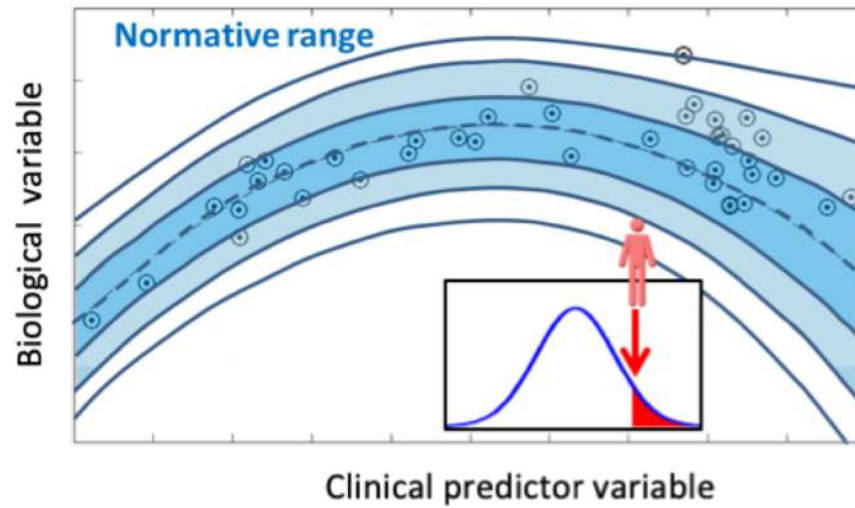




## METHODS



# METHODS



PREPARE YOUR FILES



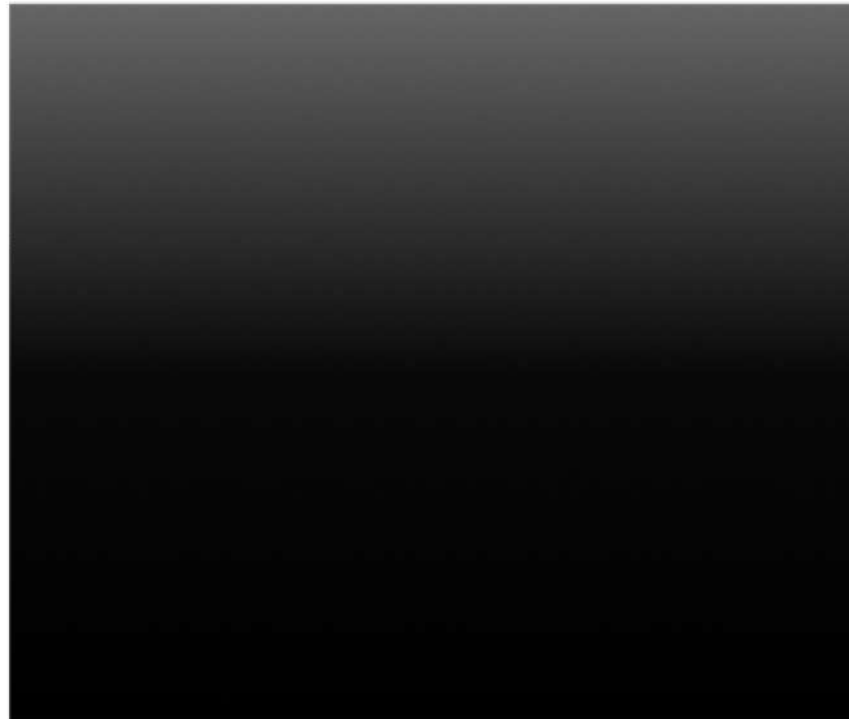




PREPARE YOUR FILES

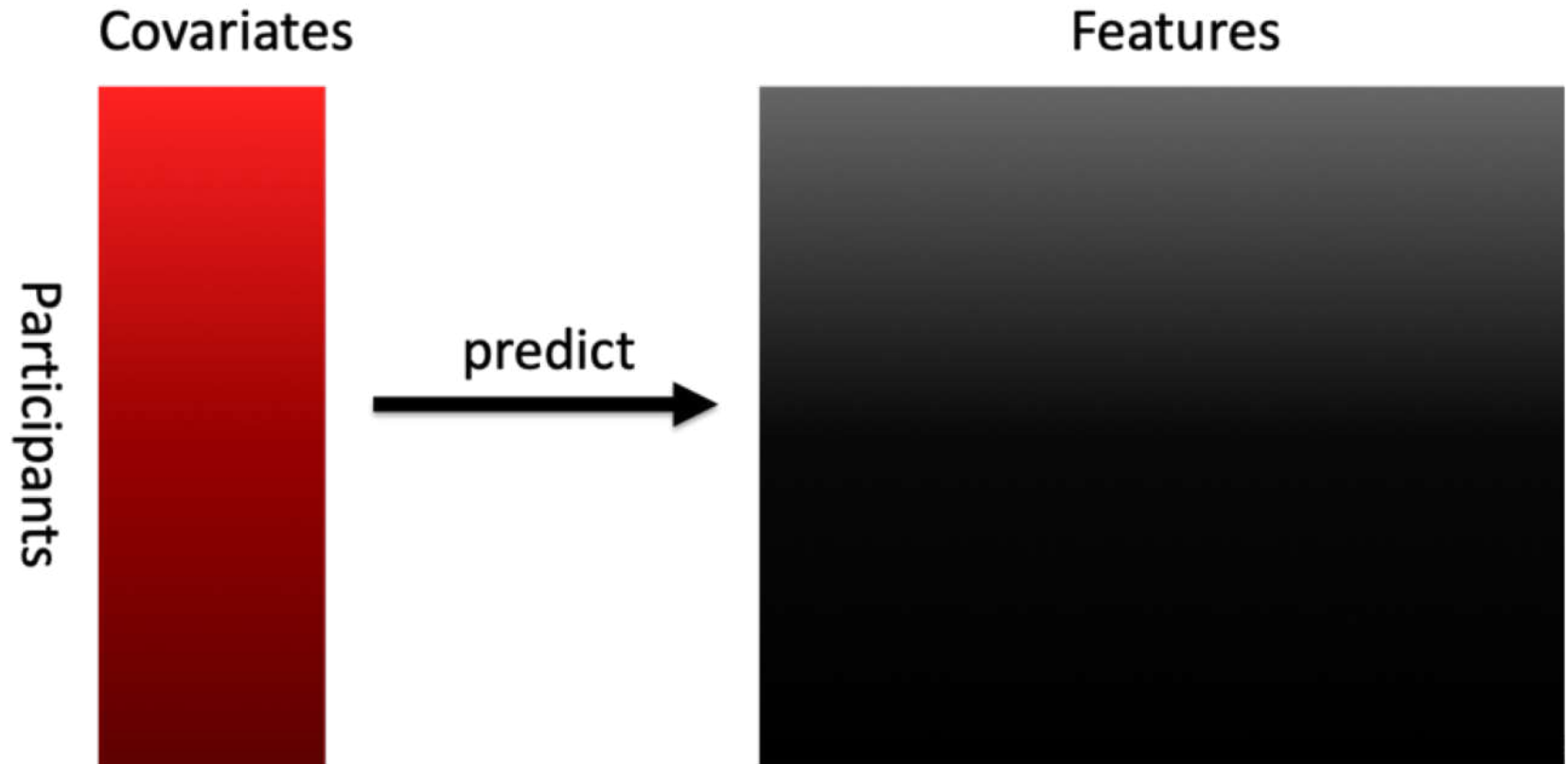
Features

Participants



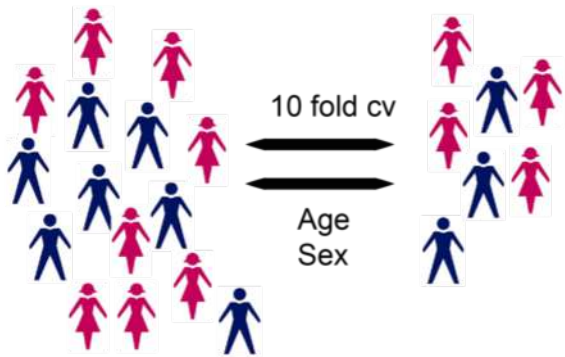


PREPARE YOUR FILES



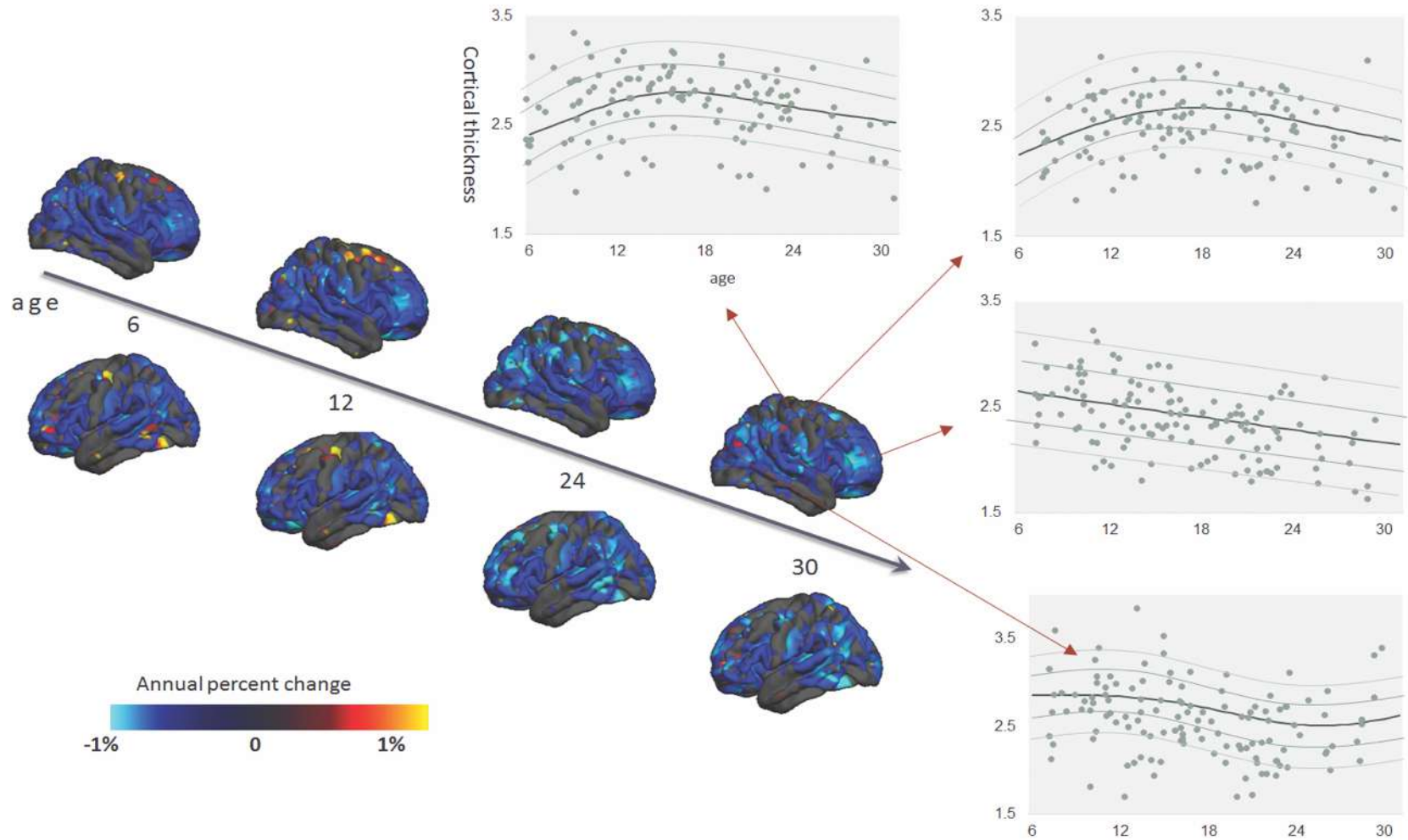


## ESTIMATE NORMATIVE MODEL



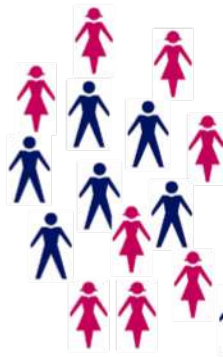


# FORWAR MODEL



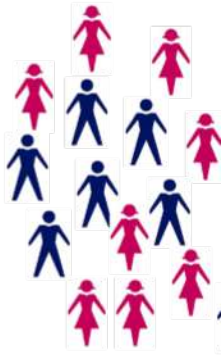


## APPLY NORMATIVE MODEL



NORDAN

ANY QUESTIONS?



NORDAN





CONTACT US ON ZOOM IF YOU RUN INTO PROBLEMS

SAIGE



TOM



Have fun.