



NYU

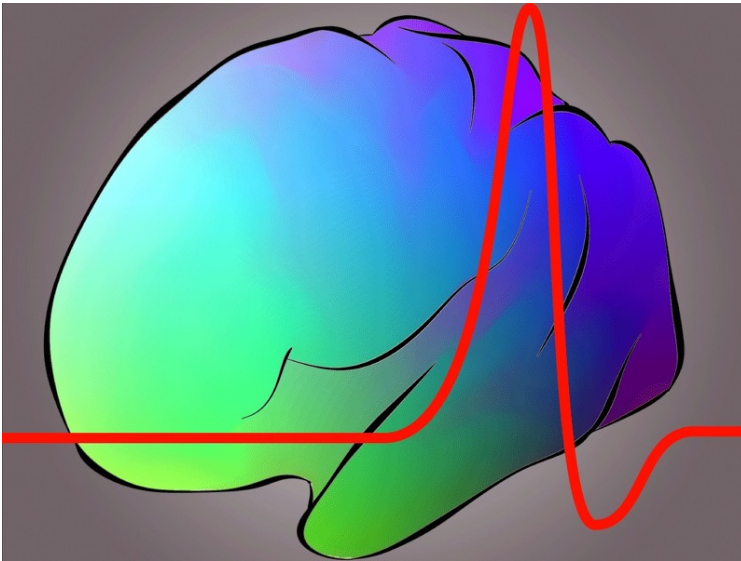


# Efficient Population Receptive Field Estimation with qPRF

**qPRF is a software that enables neuroscientists to rapidly decode functional MRI as it corresponds to visual stimulation.**

qPRF is a modeling framework that provides estimates of neural populations' receptive fields with exceptional time efficiency.

The population receptive field model is the standard model in retinotopic mapping for decoding functional MRI. Whereas other software packages fit the model within days, qPRF fits the model within minutes at no loss of precision. It removes barriers to entry for researchers who would otherwise be limited by computational resources and unlocks new scientific and clinical applications.



## The qPRF package includes:

- Software to adapt the qPRF framework to new experimental designs
- A pre-rendered search tree to support analysis of the Human Connectome 7T Retinotopy data set
- Example stimuli and functional MRI
- Demo code highlighting these capabilities

**To download the package, use the Order Now button. If you do not have an account, you will be prompted to create one.**

## References

## Technology ID

LU02-04

## Category

Express Licenses

Software & IT/Digital Health

Tarianna Stewart

## Authors

Zhong-Lin Lu, PhD

Sebastian Waz, PhD

Yalin Wang, PhD

## Learn more



1. Sebastian Waz, Yalin Wang, Zhong-Lin Lu , qPRF: A system to accelerate population receptive field modeling