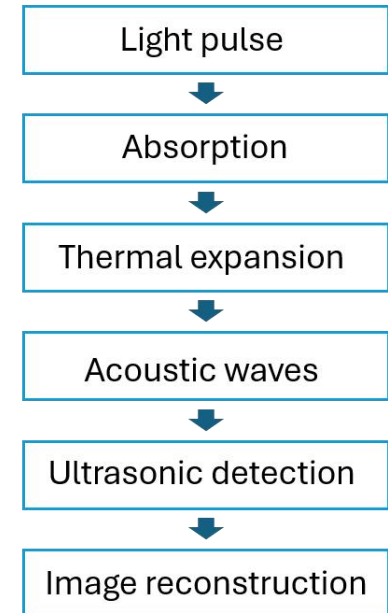
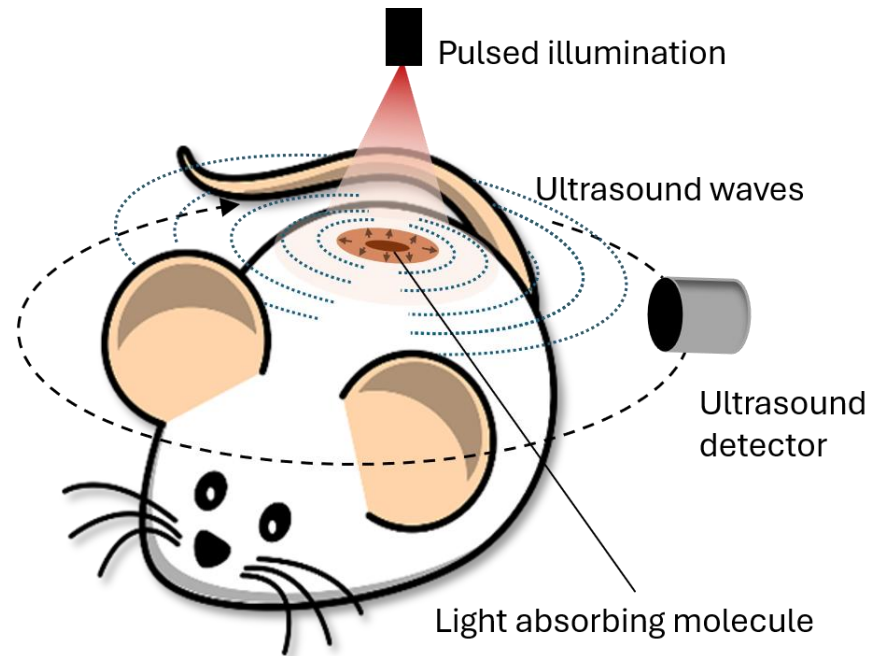


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Research

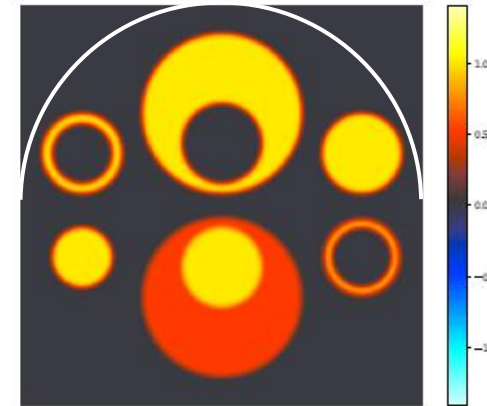
- Main research interest is photoacoustic tomography (PAT)
 - Acoustic modelling
 - Image reconstruction (inverse problem)
- In practical applications of PAT
 - Real-time imaging is wanted
 - Image reconstruction problem is typically ill-posed



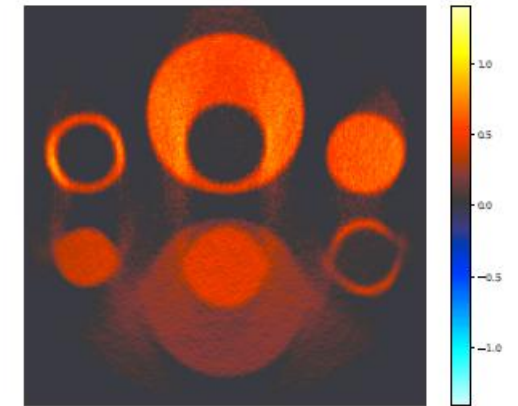
AI in PAT

- Post processing
- Embedding networks inside reconstruction approaches
 - Model correction
 - Simplified models
 - Parameter uncertainties
 - Prior information
- Problems
 - Training with real measurements

True initial pressure



Reconstruction with standard approach



Reconstruction with variational approach



Reconstruction with AI approach

