

# Quantitative ultrasound for fatty tissue imaging

A signal processing method to enhance ultrasound imaging of fatty tissue.

IP Status: US Patent Pending; Application No. 18/689,179

# Applications

- Quantitative imaging of fatty liver disease
- Imaging fat infiltration in muscular tissue

# **Technology Overview**

Ultrasound imaging is currently used for the qualitative assessment of fatty liver based on appearance and other features but lacks the quantitative basis for imaging fat infiltration in muscular tissue. Researchers at the University of Minnesota have developed a novel quantitative ultrasound technique for imaging fatty tissue. By using data from regions of interest, this novel signal-processing method more accurately estimates fat infiltration. This approach allows for improved diagnosis and staging of abnormalities such as fatty liver disease.

#### **Phase of Development**

#### TRL: 3-4

Algorithm has been developed and can be deployed on existing ultrasound scanners.

#### **Desired Partnerships**

This technology is now available for:

- License
- Sponsored research
- Co-development

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# Researchers

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