

# Simulation of light propagation and reconstruction of a medium's density using deep neural networks

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# Motivation

## Motivation for the project:

- ▶ High demand for **Deep Learning** algorithms, with recent development in hardware and HPC;
  - ▶ Re-evaluating how we solve **inverse problems** that often require complex optimization algorithms;
  - ▶ Facilitate (early) detection of **cancer** by using AI for medical imaging.
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- ▶ High demand
  - ▶ Re-evaluating
  - ▶ Facilitate (early)

# Motivation 2

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Thank you for your kind attention 😊 !

Questions ?