



## Experiment

Mechanical quenching to achieve topological defects on liquid crystals.

## Simulations

Simulations of theoretical hamiltonians provide training data for the Deep Learning models.

## Data Processing

Standardization and noise injection makes the prediction models more robust.

## Inference

The tracking of recall and precision for the real-time prediction model determines whether the model is good enough.

Data

Model

Robustness

Enhancements

Predictions