# Overview

#### Convolution

- Simplicial Fourier transform,
  Frequency, Fourier basis
- -Signal variations
- -Convolutional filters
- -Generalizes graph convolutions

### Gaussian Process

- -How to define GPs for different parts?
- -Hodge-compositional idea

## Hodge decomposition

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## Convolutional NNs

- Architecture (attention, message passing)
- -Robustness
- -Higher-order link predictions
- -Generalizes GCNs, etc.

## Generative learning

- -(Dynamic) optimal transport (Schrödinger bridge) on SCs
- -Gaussian bridge
- -Generative models: diffusion, flow models on SCs