





Notivation

Structured Optimal Transport

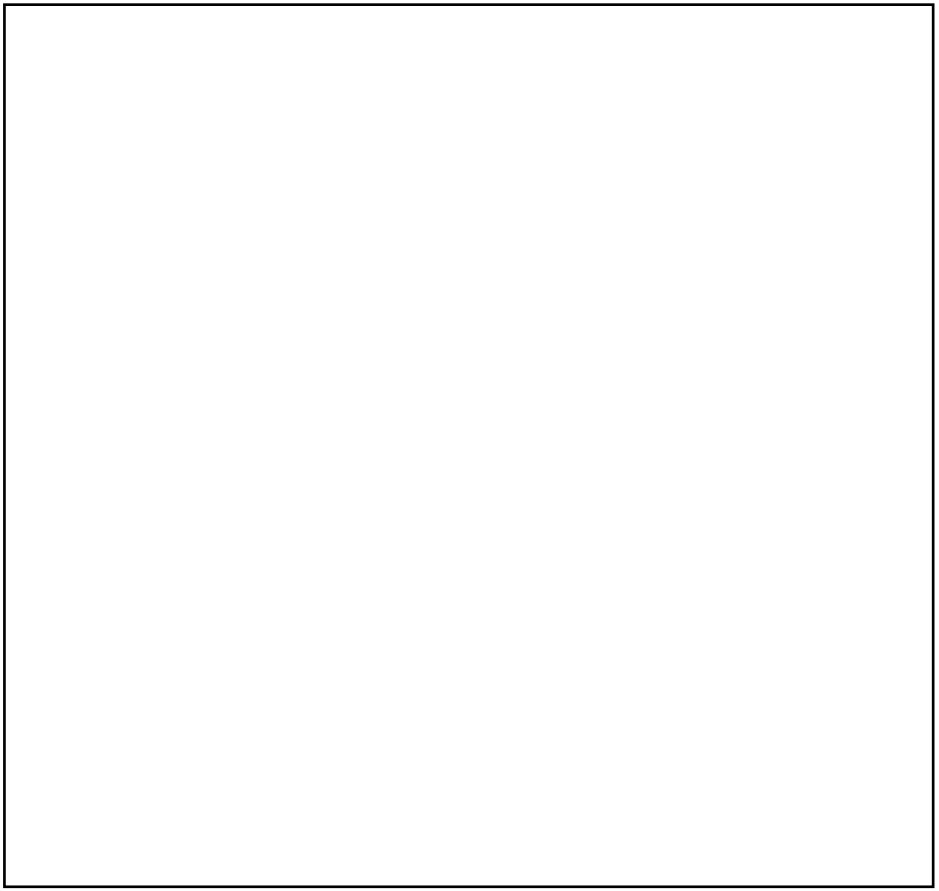


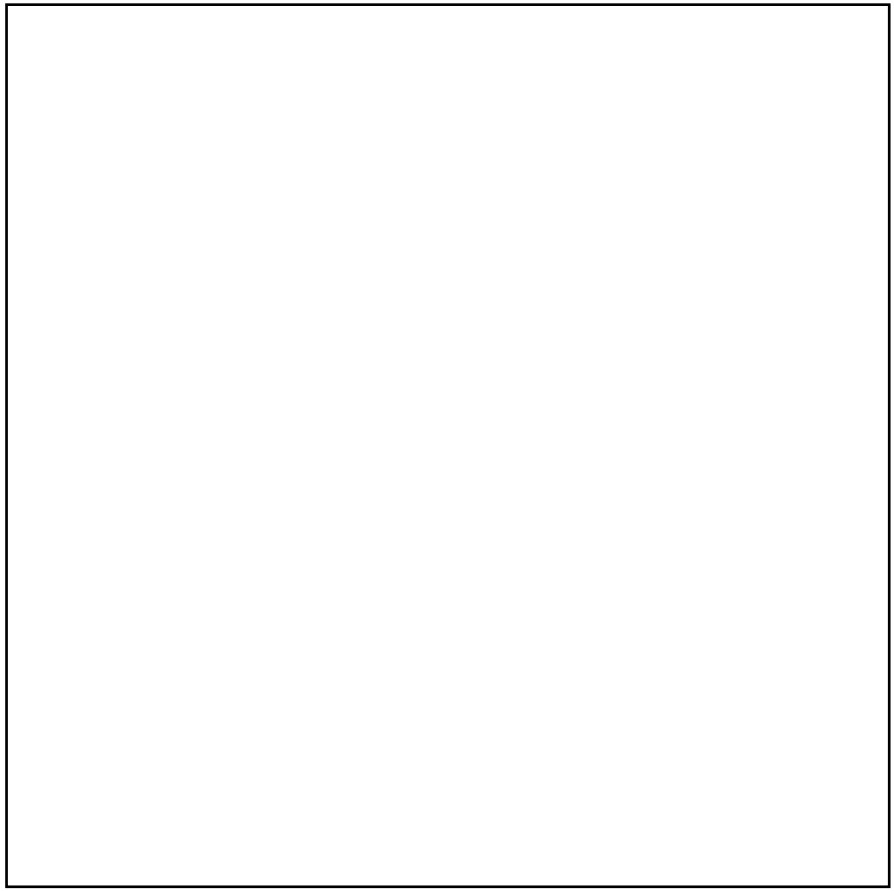
# Domain Adaptation for Classification

Transfer information between source and target domain

Use correspondences between source and target samples to transfer labels

Encourage points with the same label to be mapped together!























































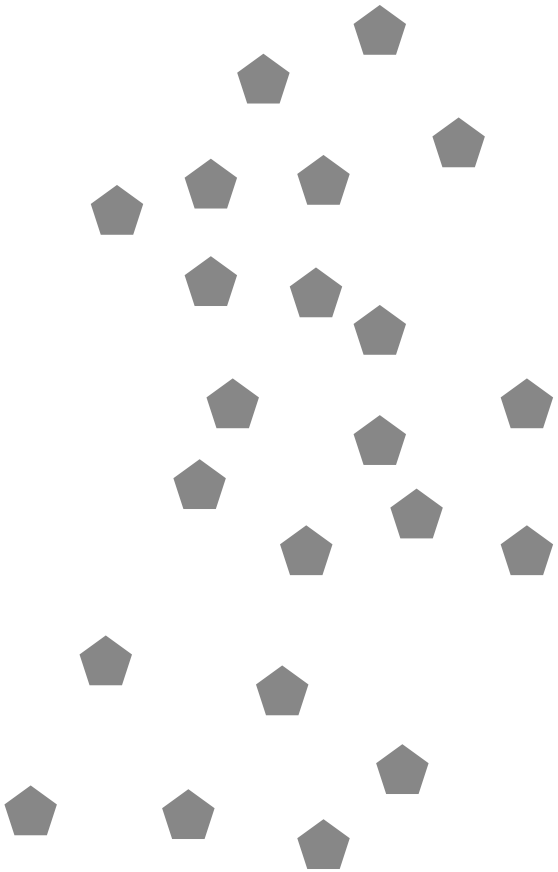


Labeled Surfaces Domain

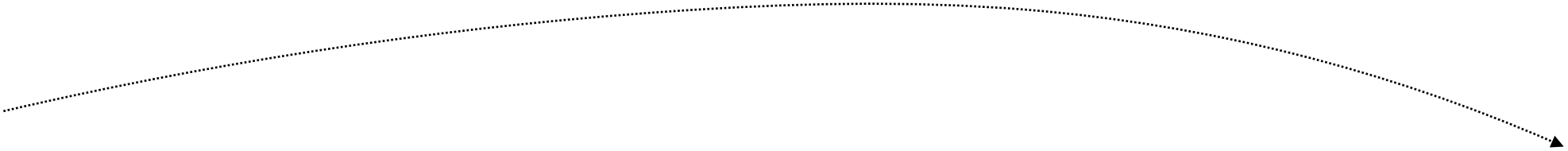


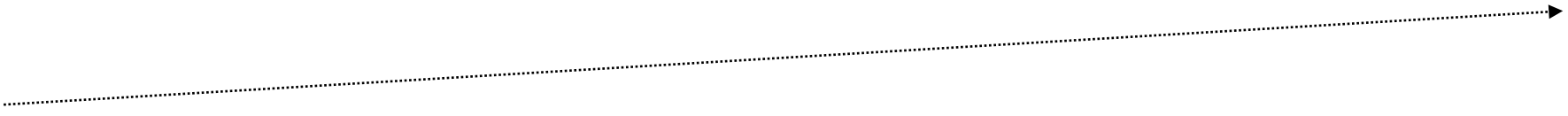
und labeled Target Domain

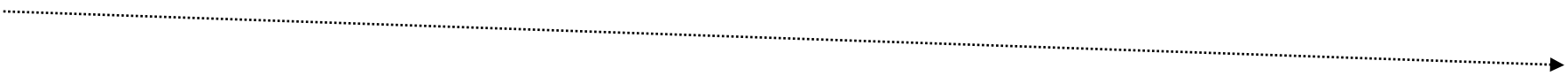


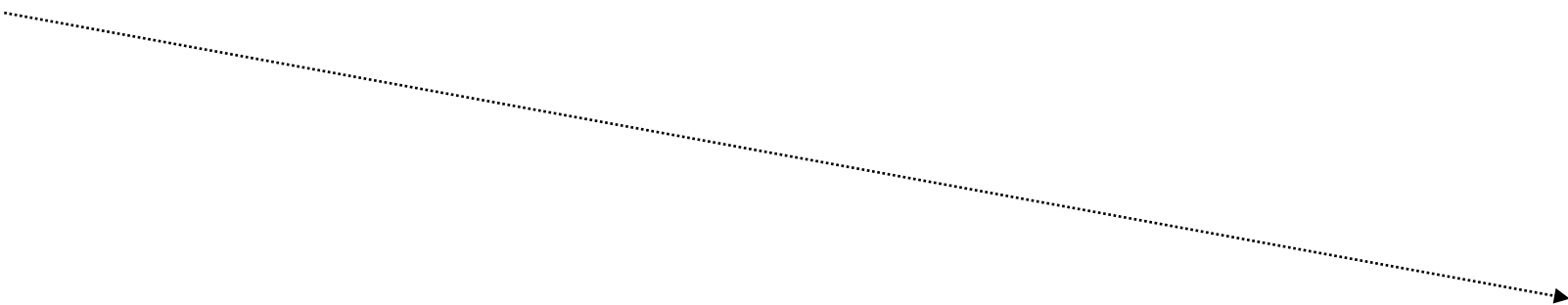




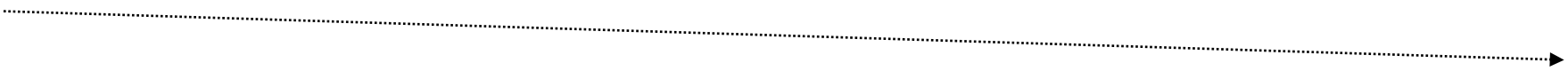
















Want

idea

**Goal**

Setting



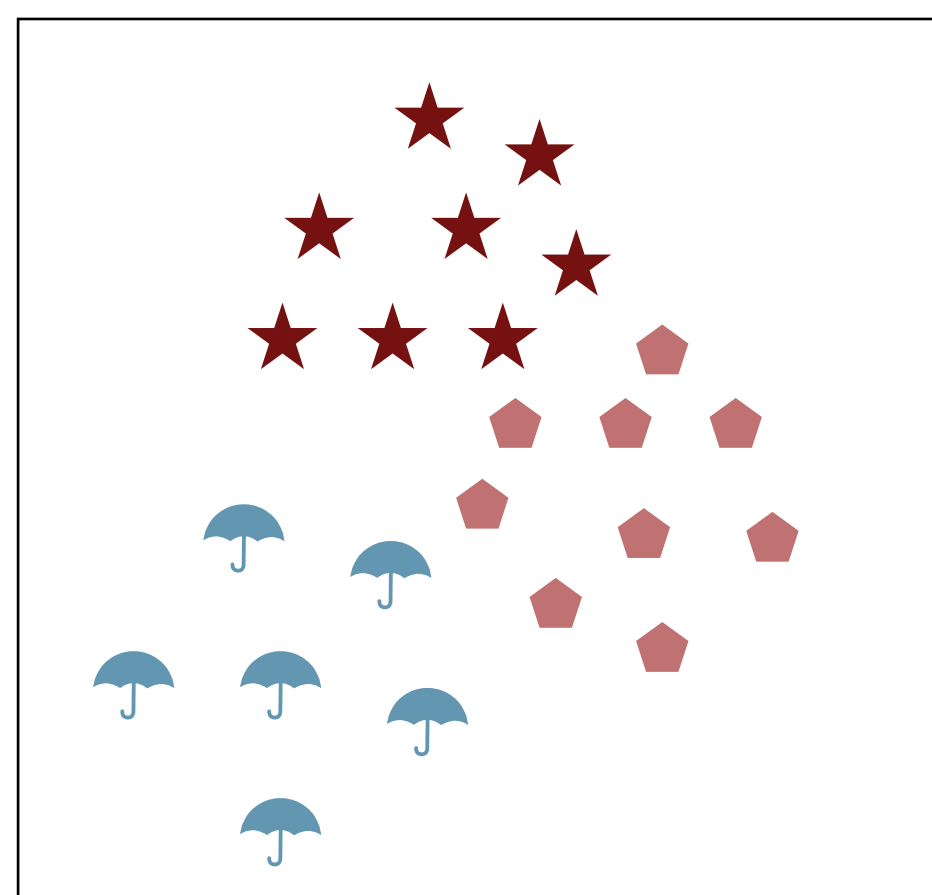




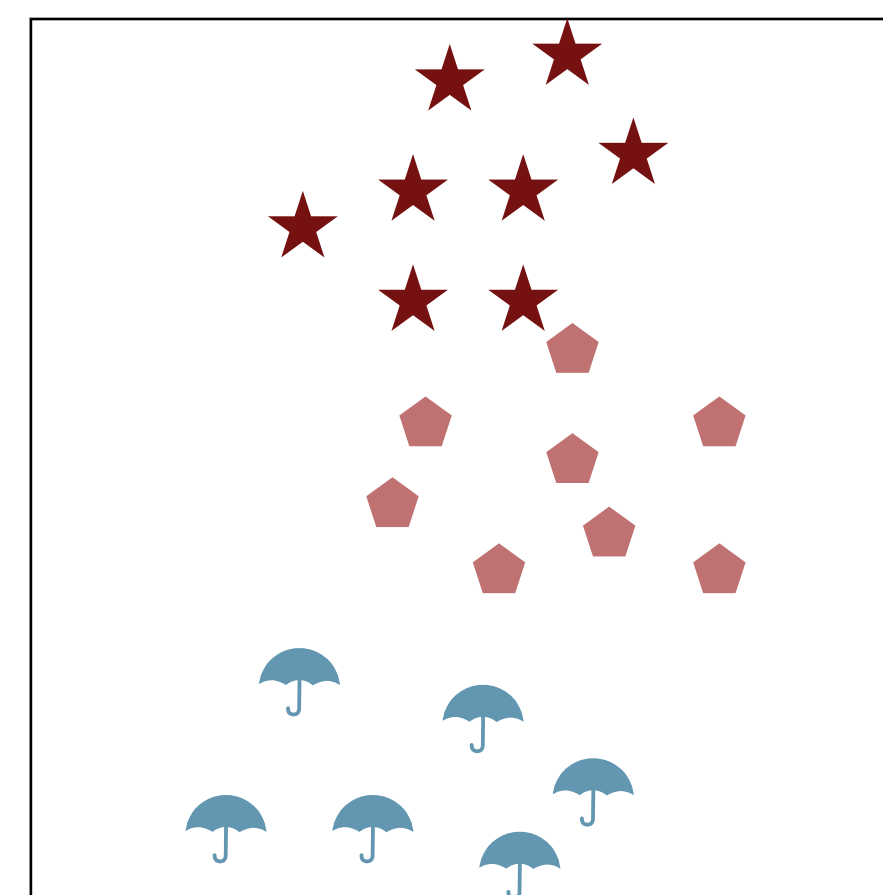
# Structured Optimal Transport

## Motivation

Setting | Domain Adaptation for Classification



Labeled Source Domain



Unlabeled Target Domain

Goal | Transfer information between source and target domain

Idea | Use correspondences between source and target samples to transfer labels

Want | Encourage points with the same label to be mapped together!

# Structured OT

## Beyond Linear Costs

Classic OT Formulation:

$$\min_{\Gamma \in \Pi(\mathbf{a}, \mathbf{b})} \sum_{i,j} \Gamma_{ij} C_{ij}$$