This Thesis:
an Overview

LABELS

$\{\mathbf{x}_i, y_i\}$

STRUCTURE

S

N   VP

V   NP

D   N

John hit the ball.

5'ATGACGTGGGGA3'
3'TACTGCACCCCT5'

GEOMETRIC
INVARIANCES

5 5 5

Part I:
OT with
Structured Costs
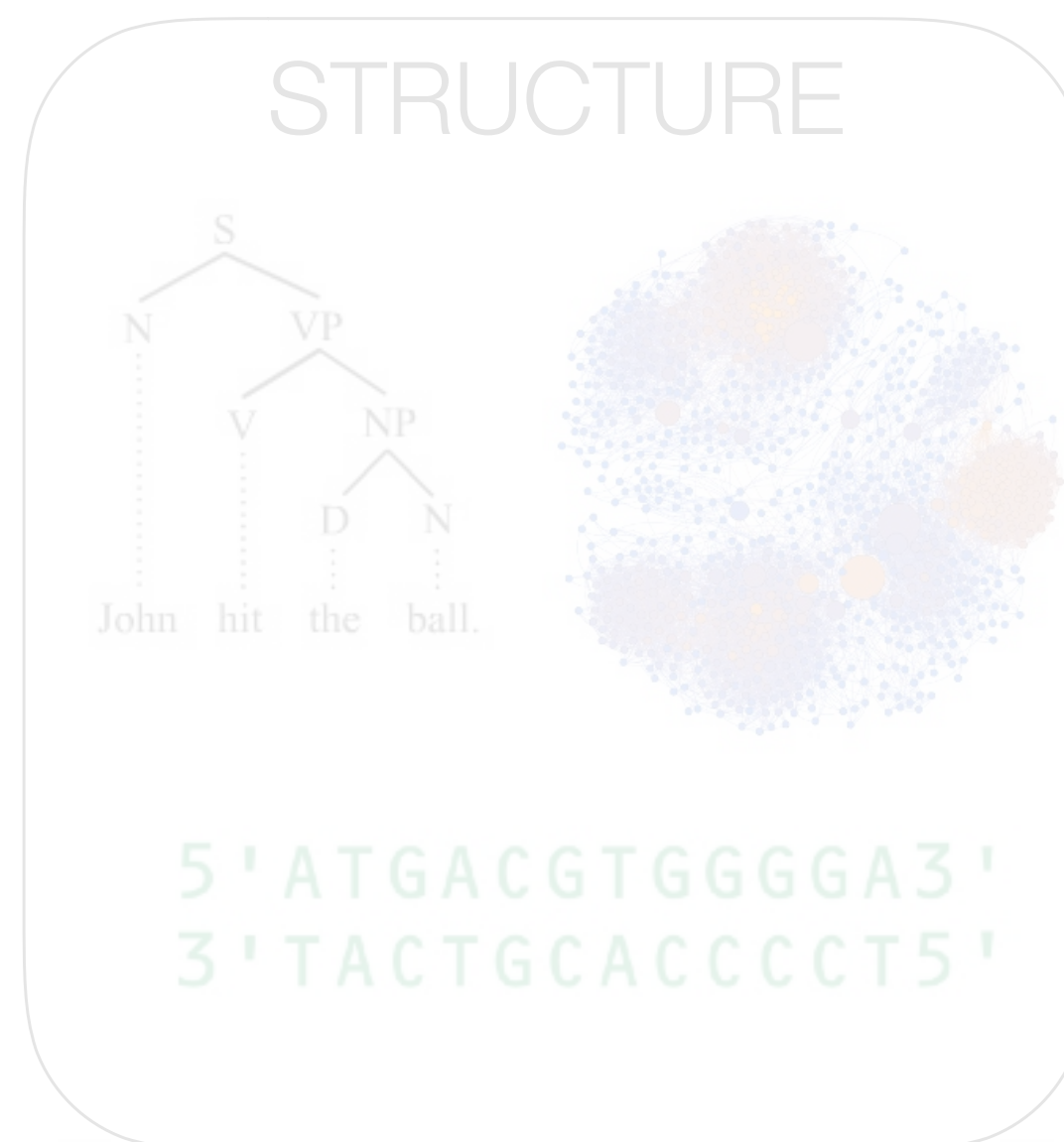
Part II:
OT with
Global Invariances
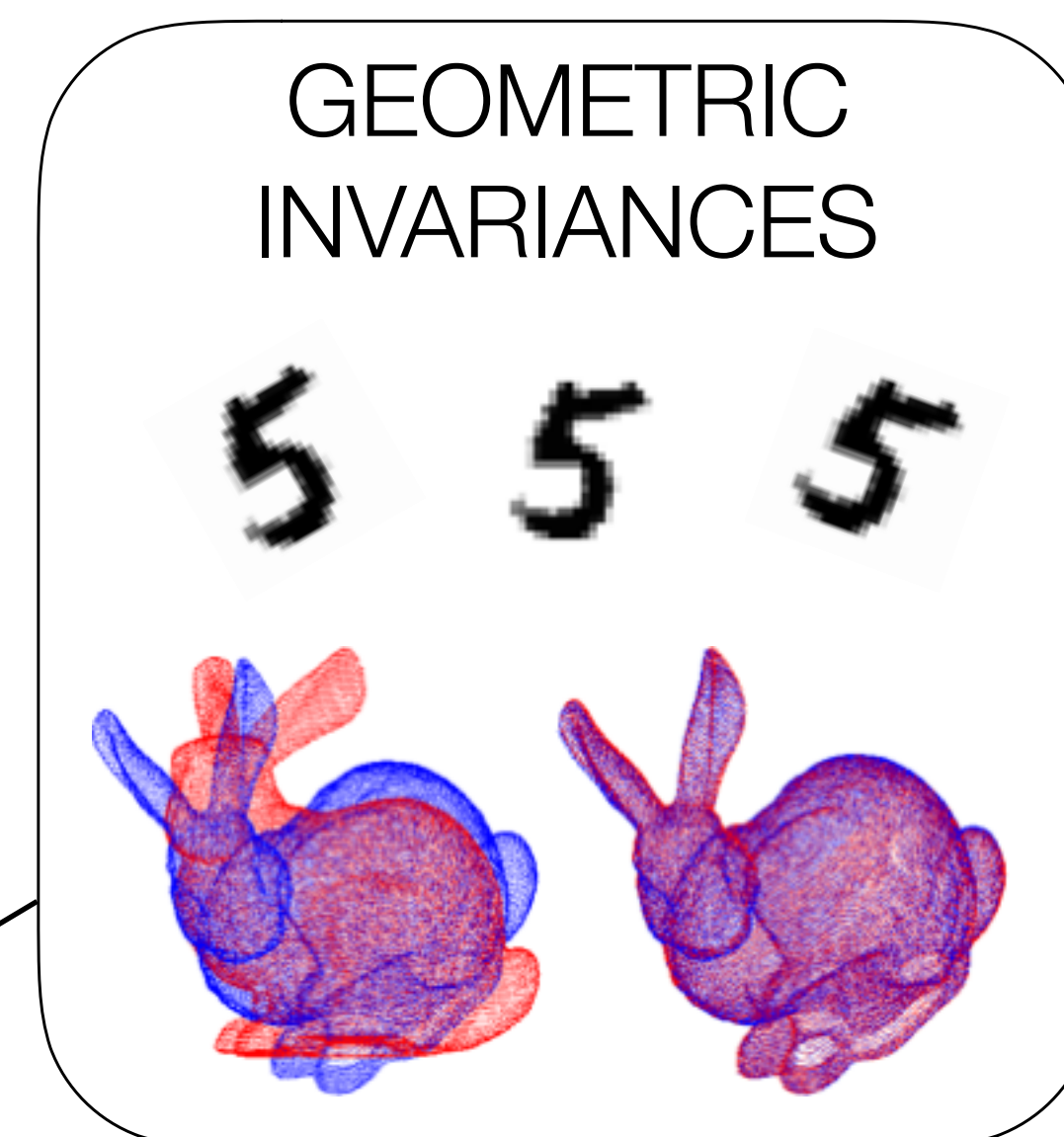
Part III:
OT over
Hyperbolic Spaces

AISTATS '18

EMNLP '18 & AISTATS '19

In Submission

OT with Global Invariances
Motivation: Unsupervised Word Translation

- Ideally, solved by large amounts of parallel data.