MISC SLIDES

ON THE COMPLEXITY OF ENTOPY REGULARIZED GROMOV WASSERSTEIN

- [Hard] Matching rows of similarity matrices usually becomes a quadratic assignment problem (Loiola et al., 2007), which is NP-hard.
- ▶ Relaxed (~Kantorovich) version (GW) is still non-convex
- Peyre et al.]:
 - For certain class of losses, can compute L(C, C')(x) T in O(n^3)
 - Convergence almost (but not completely) guaranteed in theory, observed in practice
 - ► For L=L_2, equal to softassign procrustes, convergence proof by Rangarajan [only ensures convergence of the functional values (not of the iterates), and not for general C]



