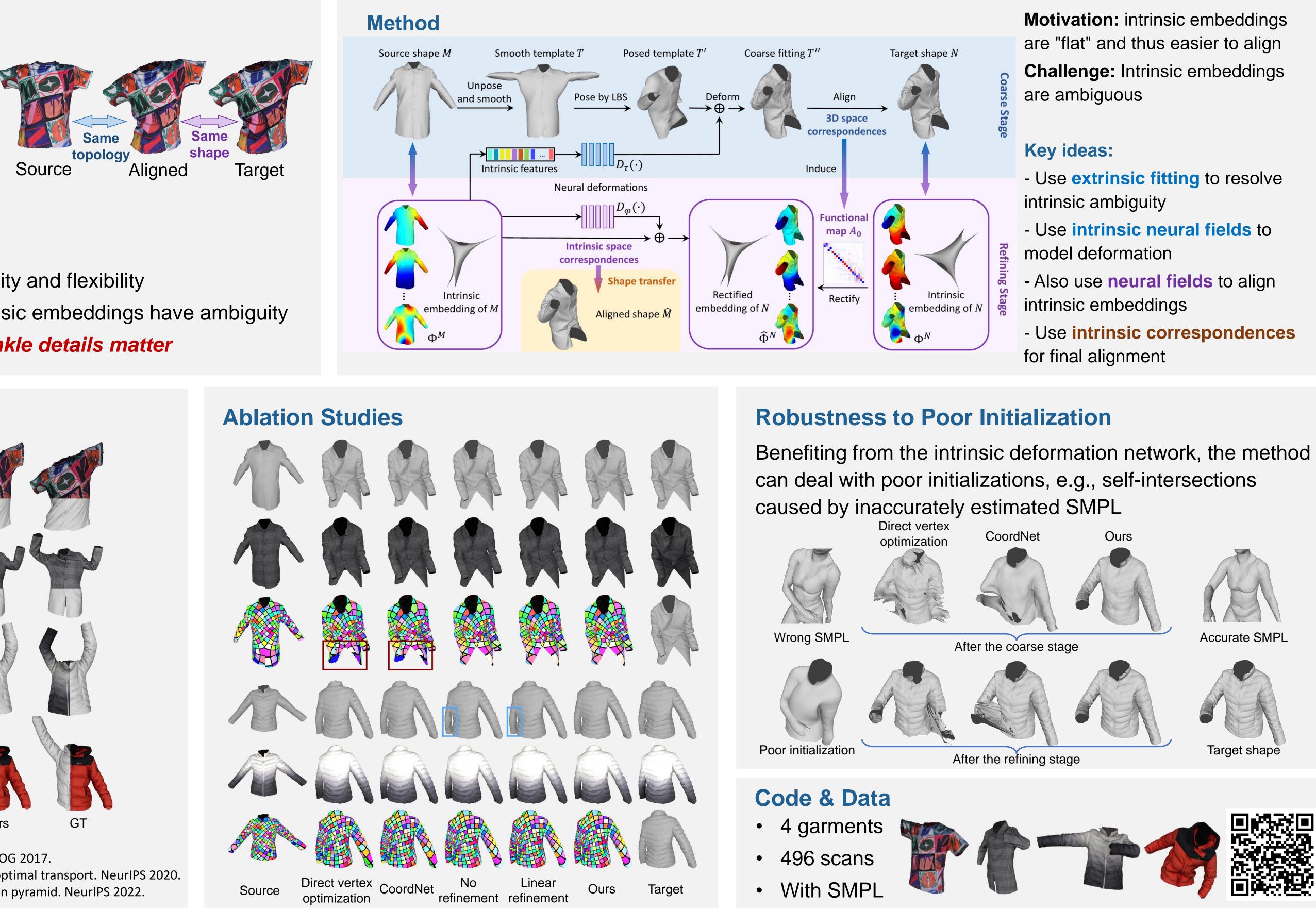




# Leveraging Intrinsic Properties for Non-Rigid Garment Alignment ICCV23 Siyou Lin, Boyao Zhou, Zerong Zheng, Hongwen Zhang, Yebin Liu

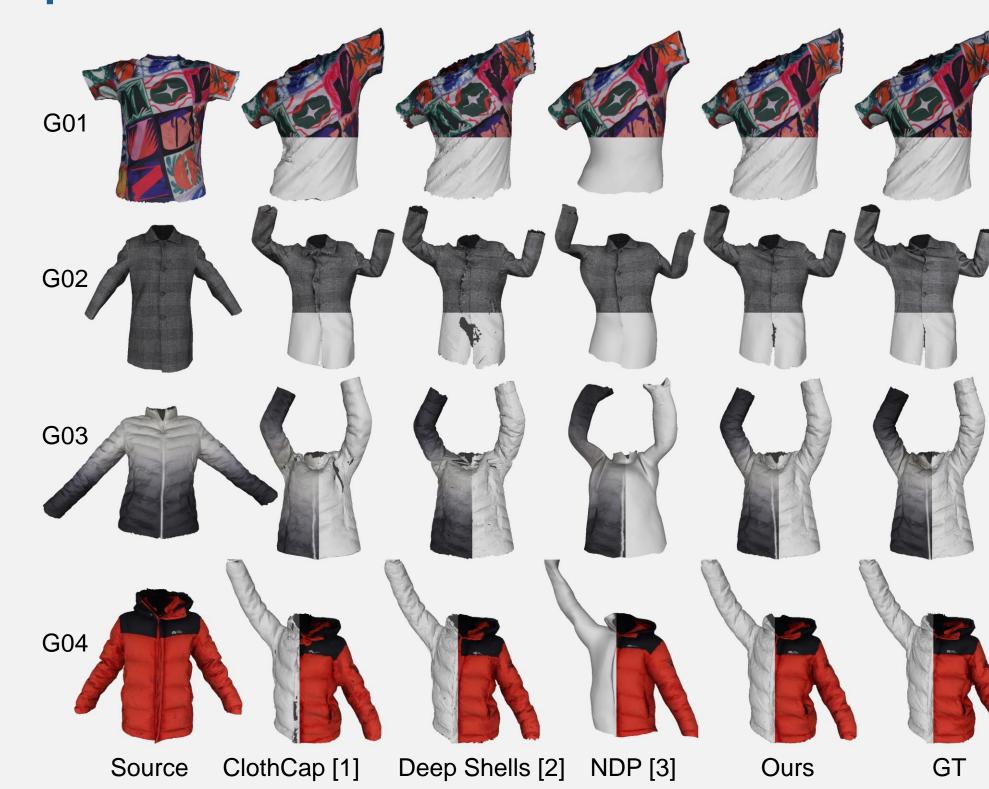
## Introduction Goal:

- align deformed versions of a garment
- at wrinkle-level and texture-level accuracy



### **Existing methods:**

- Extrinsic: unavoidable tradeoff between rigidity and flexibility
- Intrinsic: needs isometric assumptions; intrinsic embeddings have ambiguity ...but for garment deformations, *non-rigid wrinkle details matter*



[1] Pons-Moll et al. ClothCap: Seamless 4D clothing capture and retargeting. TOG 2017.

[2] Eisenberger et al. Deep Shells: Unsupervised shape correspondence with optimal transport. NeurIPS 2020. [3] Li et and Harada. Non-rigid point cloud registration with neural deformation pyramid. NeurIPS 2022.

# Comparisons

Department of Automation, Tsinghua University

