Computational Fashion Understanding

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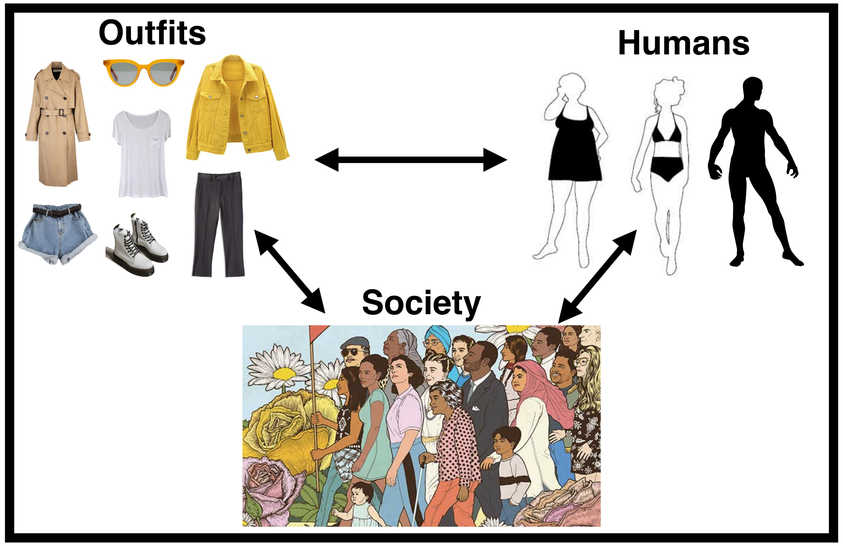
OUTFIT: inter-garment relation

Style: underlying compositions of elements.

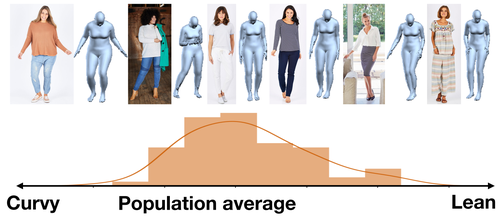
Compatibility: coordination between garments.



HUMAN-outfit interaction

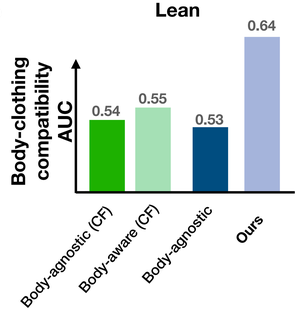
Dataset with diverse body shapes.

CVPR 2020



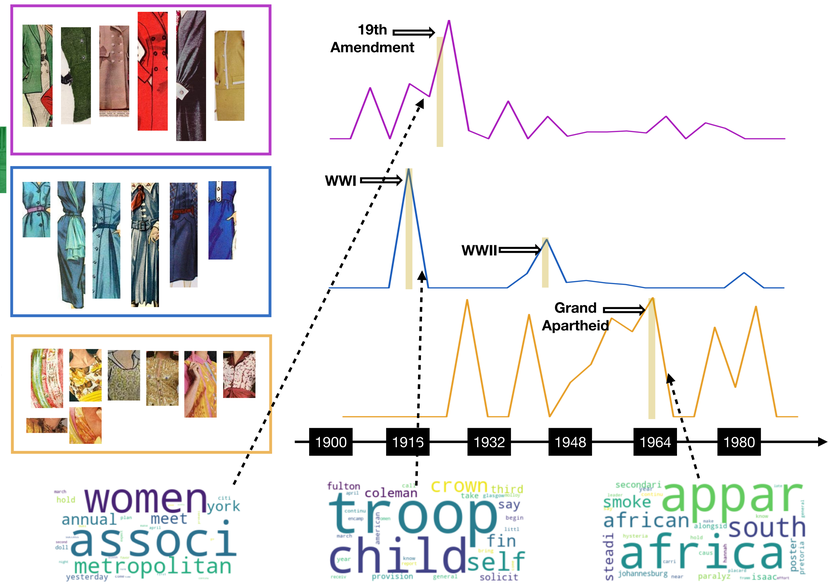
Motivations:

- Existing: one-shape fit all
- Body-clothing compatibility supervision



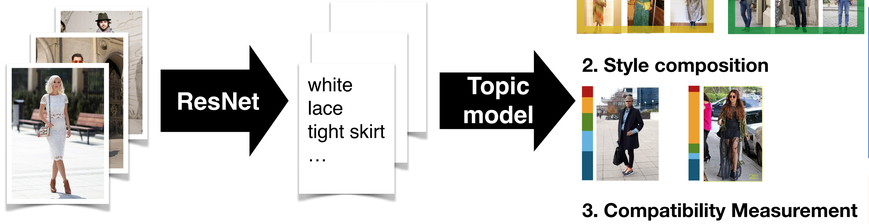
SOCIETY-human-outfit interaction

Learning cultural influence on fashion styles.



Learning styles and compatibility without labels.

ICCV 2017, CVPR 2018



Clustering evaluated by style labels

	NMI
StyleNet	0.20
(General) ResNet	0.16
(Attribute) ResNet	0.18
Ours	0.31

Compatibility scoring

	AUC
Monomer	0.157
BiLSTM	0.184
Ours	0.199

Minimal Edits for Outfit Improvement.

ICCV 2019