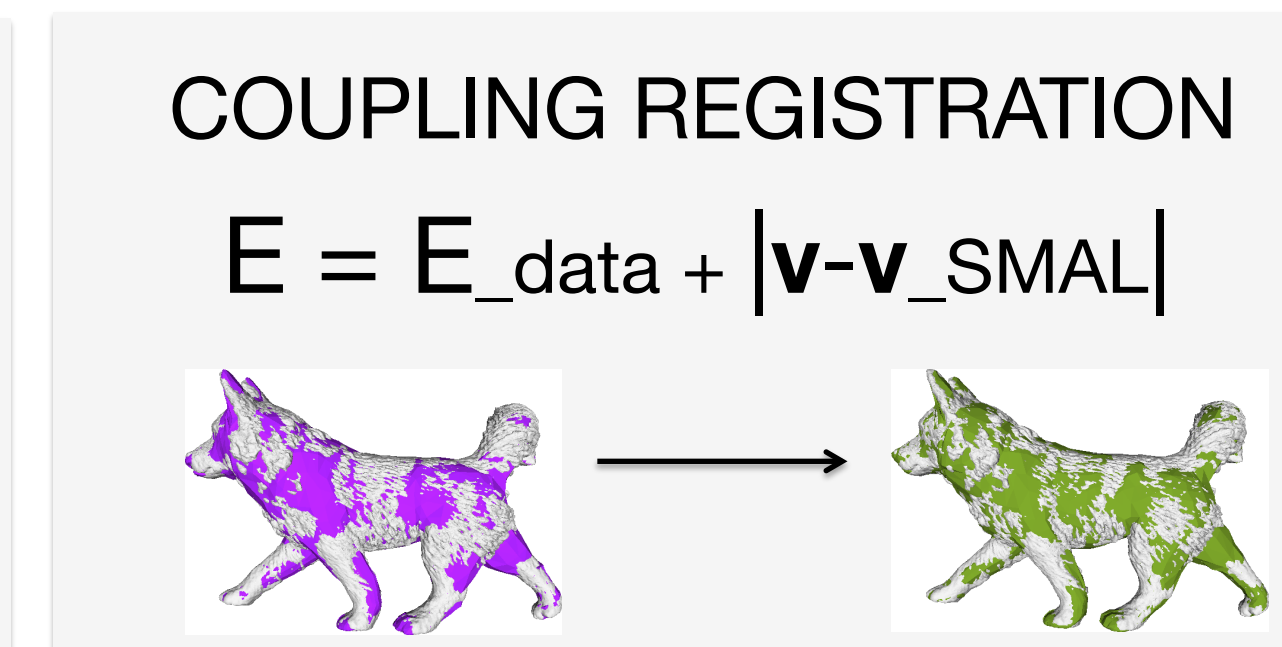
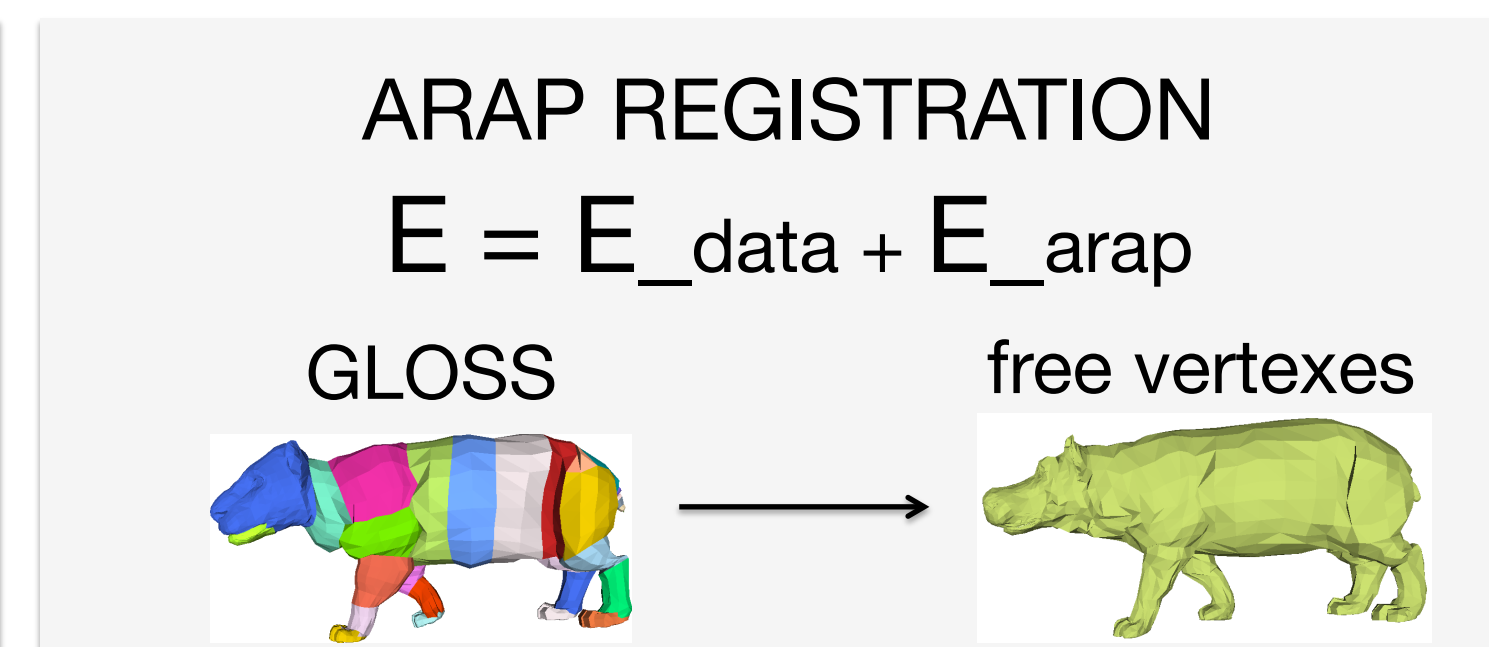
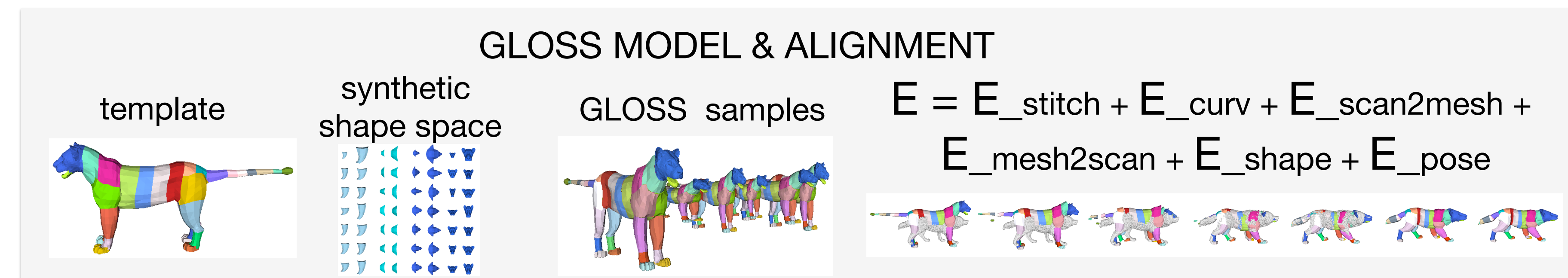
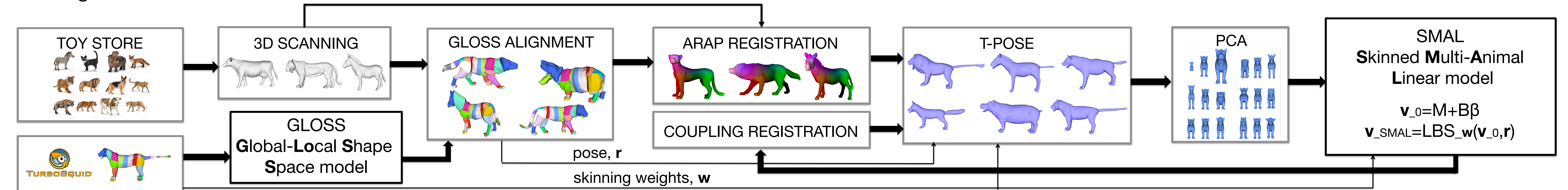


GOAL: Build a 3D shape and pose model for animals. **PROBLEM:** 3D scanning of wild animals.
APPROACH: Scan toy figurines of animals of 5 families (big cats, dogs, horses, cows, hippos).
CHALLENGES: Align meshes of animals of very different shape and pose.



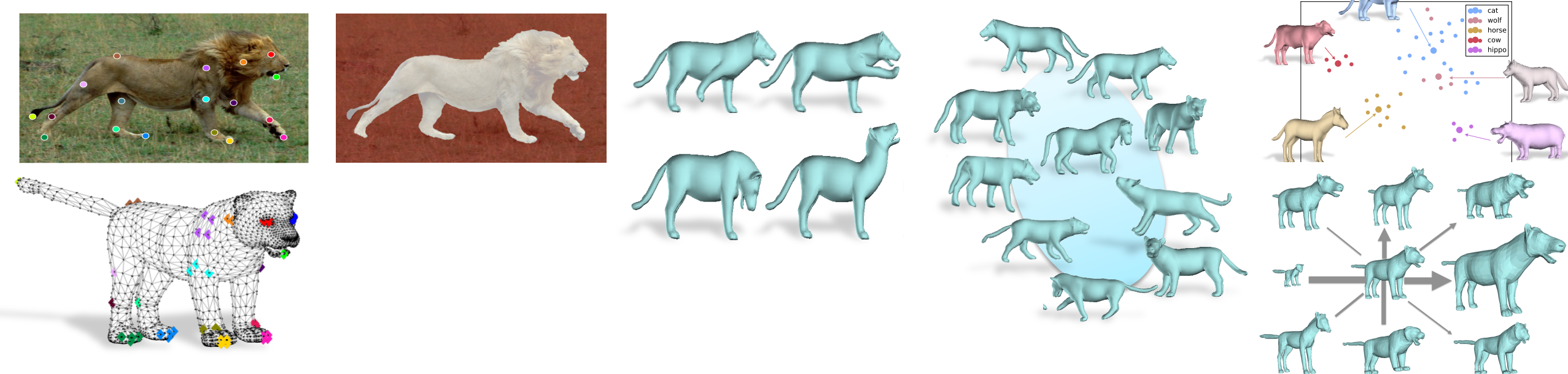
Building a 3D Animal Model



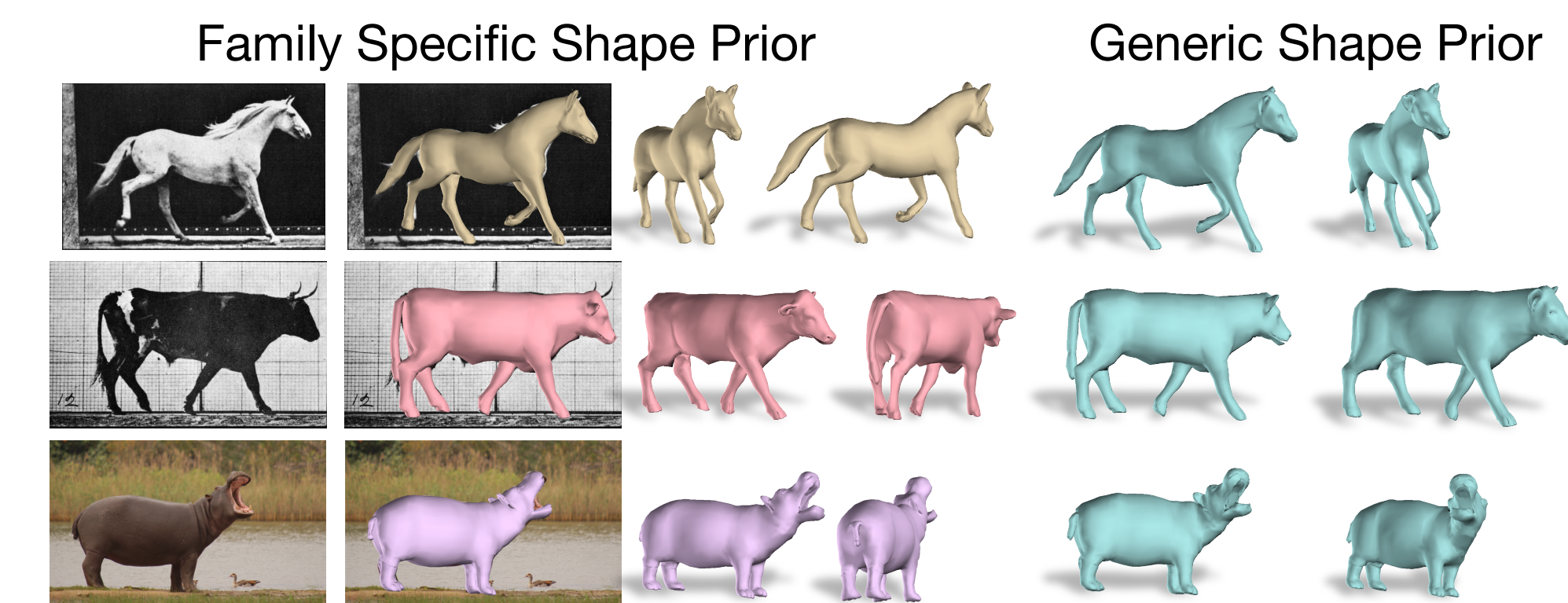
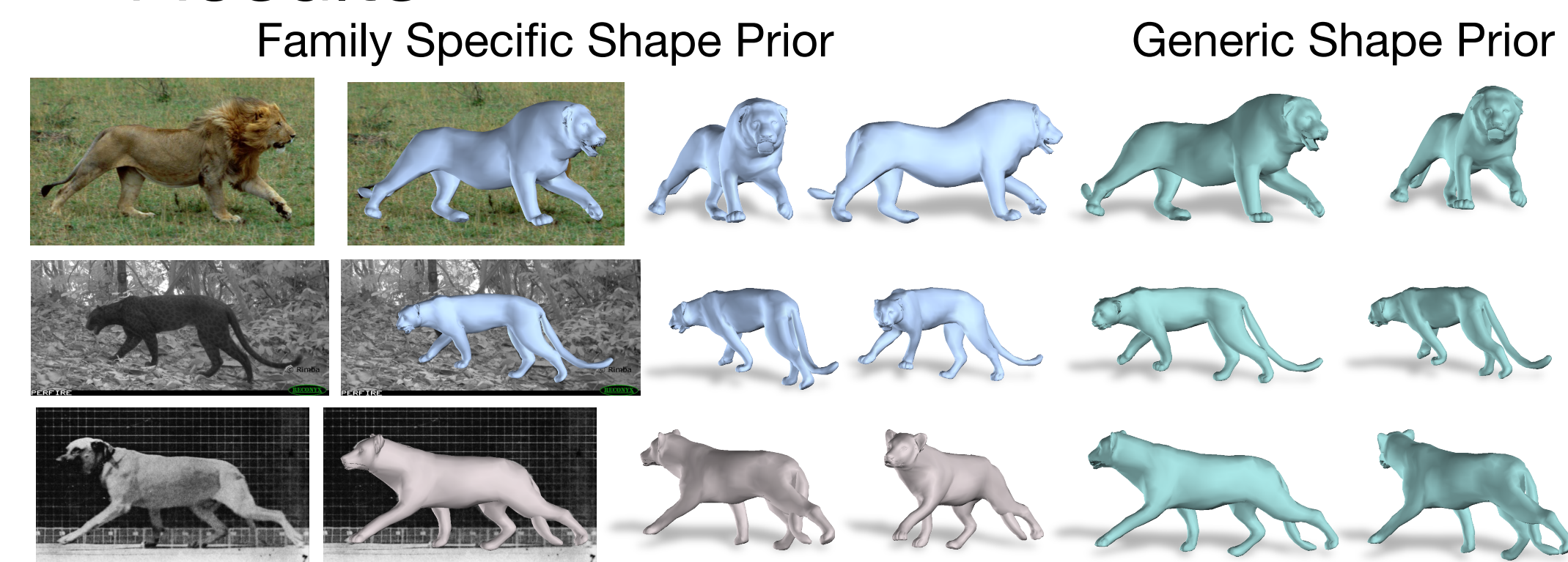
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Image Fitting

$$E = E_{\text{keyp}} + E_{\text{silh}} + E_{\text{joint_lim}} + E_{\text{pose}} + E_{\text{shape}}$$



Results



Unseen Animals

