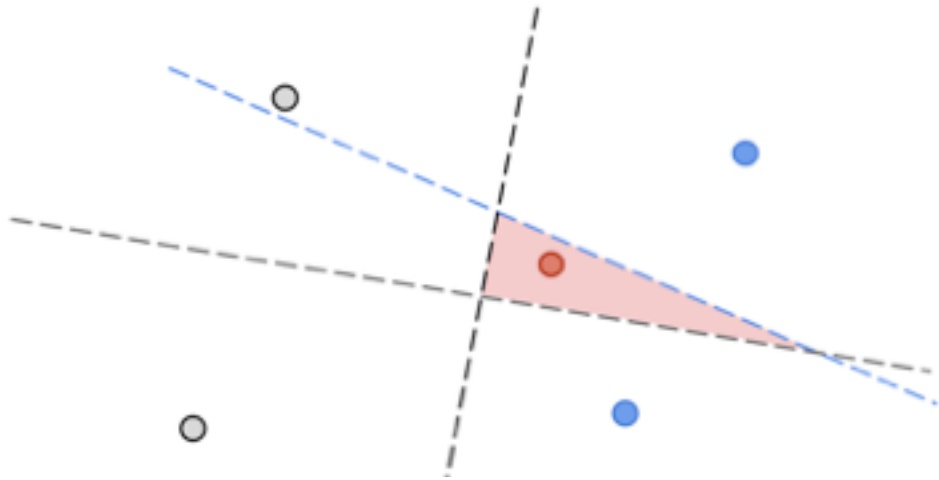


Outline

**Aim 1: Preference and metric
learning from paired comparisons**





**Aim 4: Synthetic dataset generation
with no additional annotations**

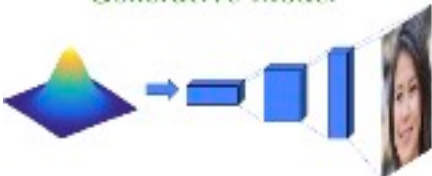
Few labeled images



HandsOff



Generative Model



Infinite labeled
generated images

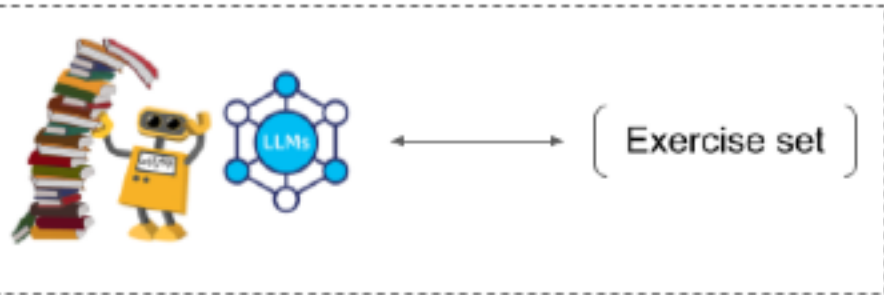
**Aim 3: Zero-shot large language
model augmented exercise retrieval**

The *mHyER* framework

"I want to learn about animals!"



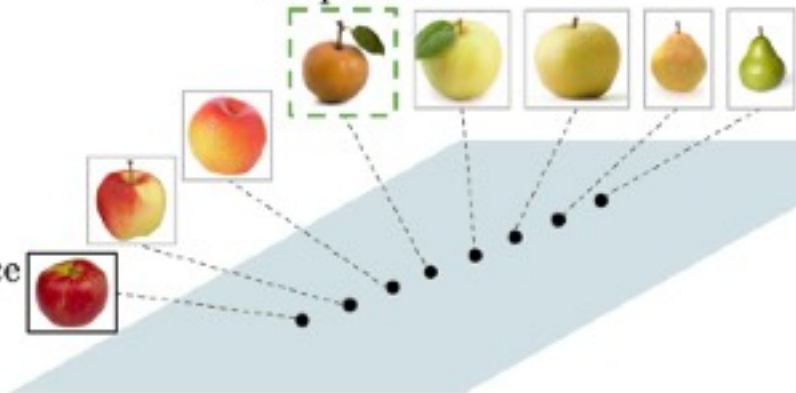
Ex 1: Translate this sentence
J'aime les chiens



**Aim 2: Perceptual adjustment
queries for metric learning**

PAQ
response

Reference
item



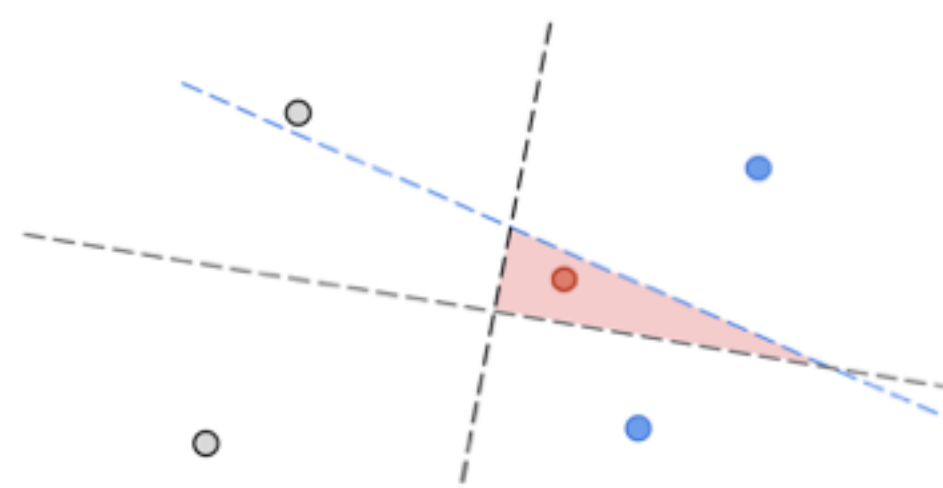
Withnout

With

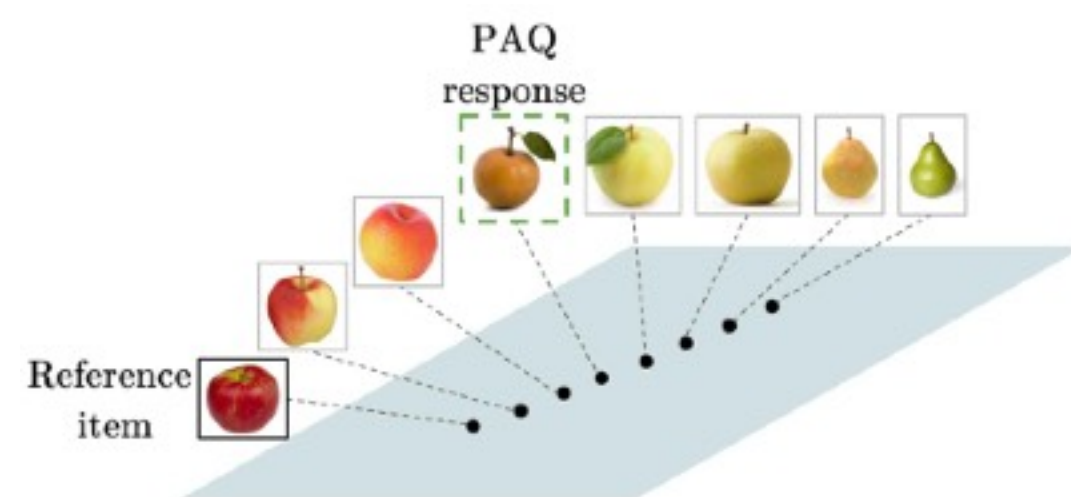
Outline

With

Aim 1: Preference and metric learning from paired comparisons

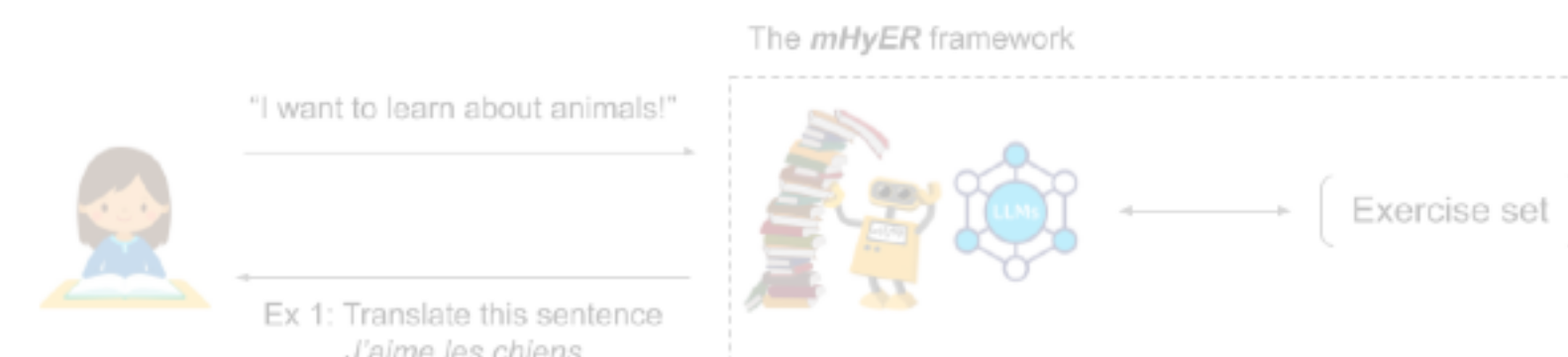


Aim 2: Perceptual adjustment queries for metric learning

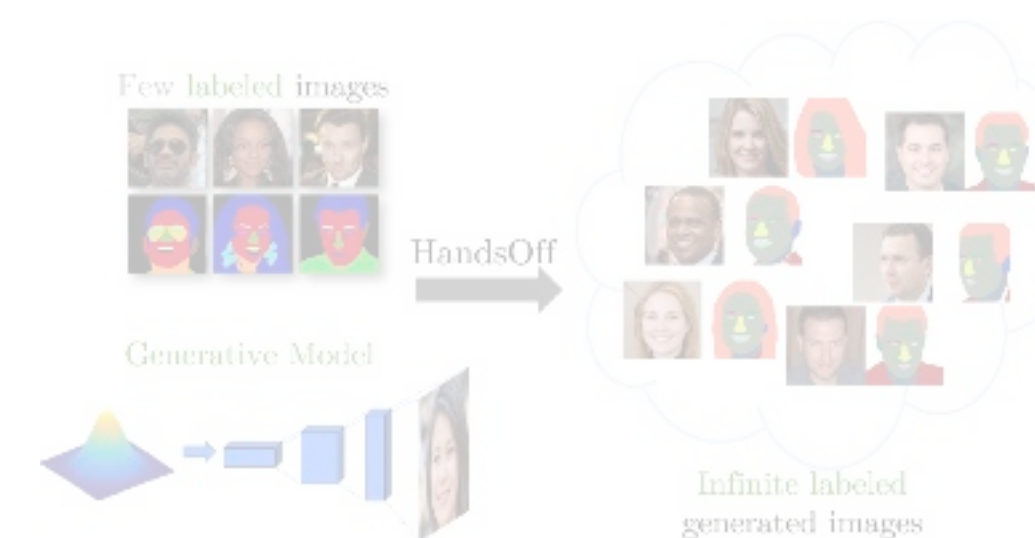


Without

Aim 3: Zero-shot large language model augmented exercise retrieval



Aim 4: Synthetic dataset generation with no additional annotations



Aim 1: Preference and metric learning from paired comparisons

NeurIPS 2020 (Spotlight Award)

