

# Pointwise

- Each link is standalone instance.
- **Input for Model:** Feature Vector.
- **Output for Model:** Predicted Label.
- **Loss Function:** Classification of each link independently.

# Pairwise

- Considers pairs of links.
- **Input for Model:** Pair of feature vectors.
- **Output for Model:** Relative preference.
- **Loss Function:** Discrepancy between model and GT.

# Listwise

- Considers whole list of links.
- **Input for Model:** List of feature vectors.
- **Output for Model:** List of labels or permutation.
- **Loss Function:** Directly measure final position/rank of links.