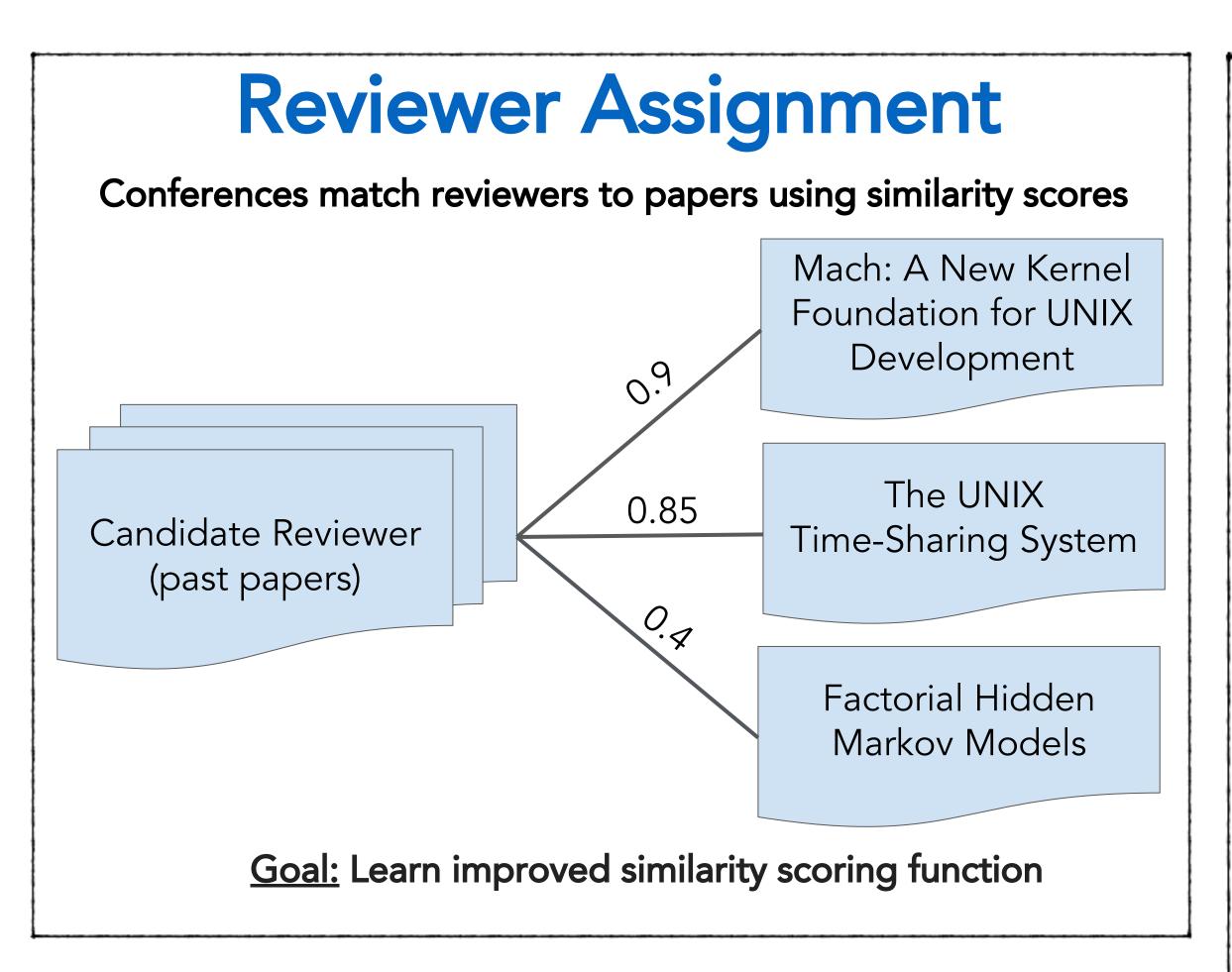
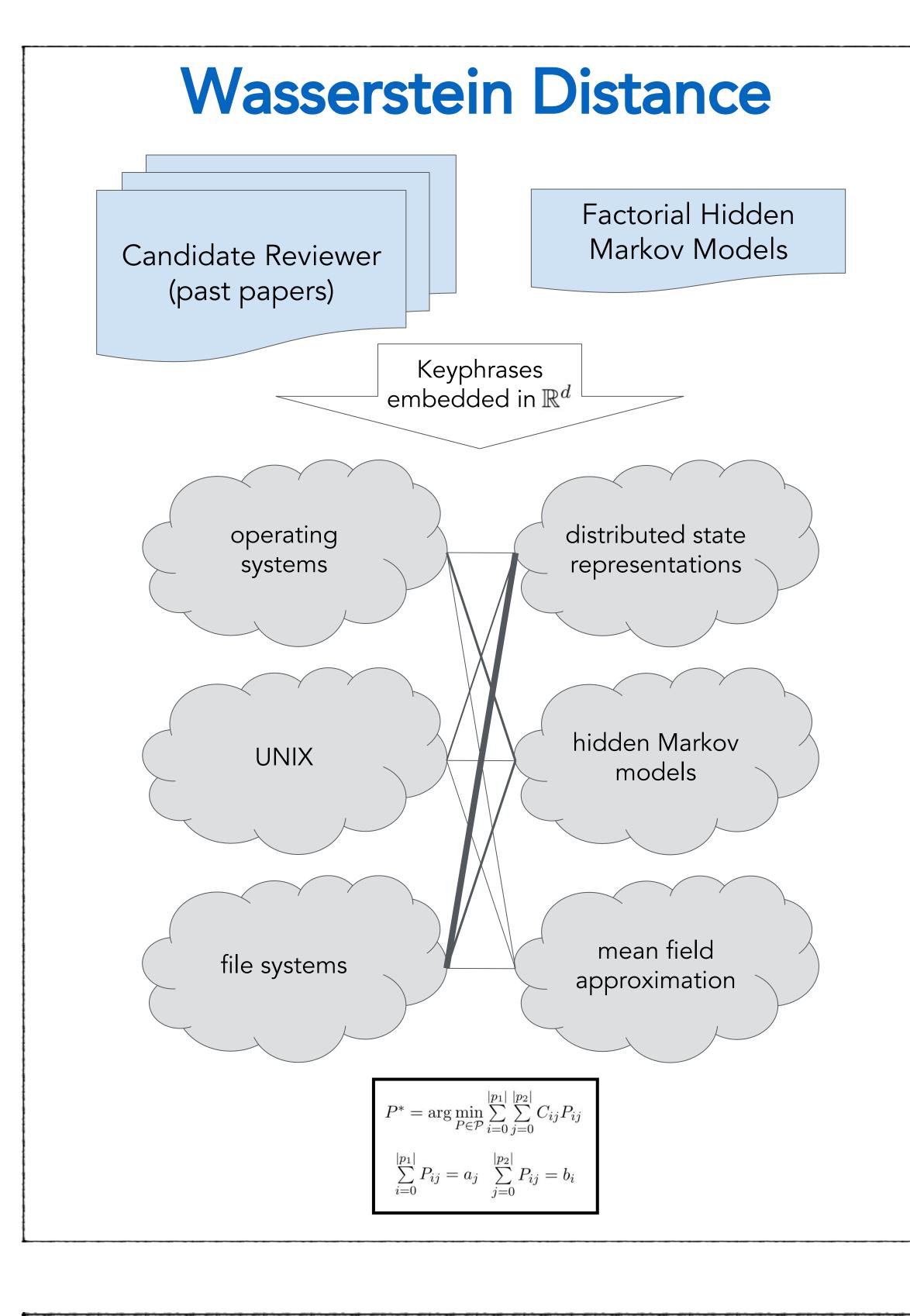


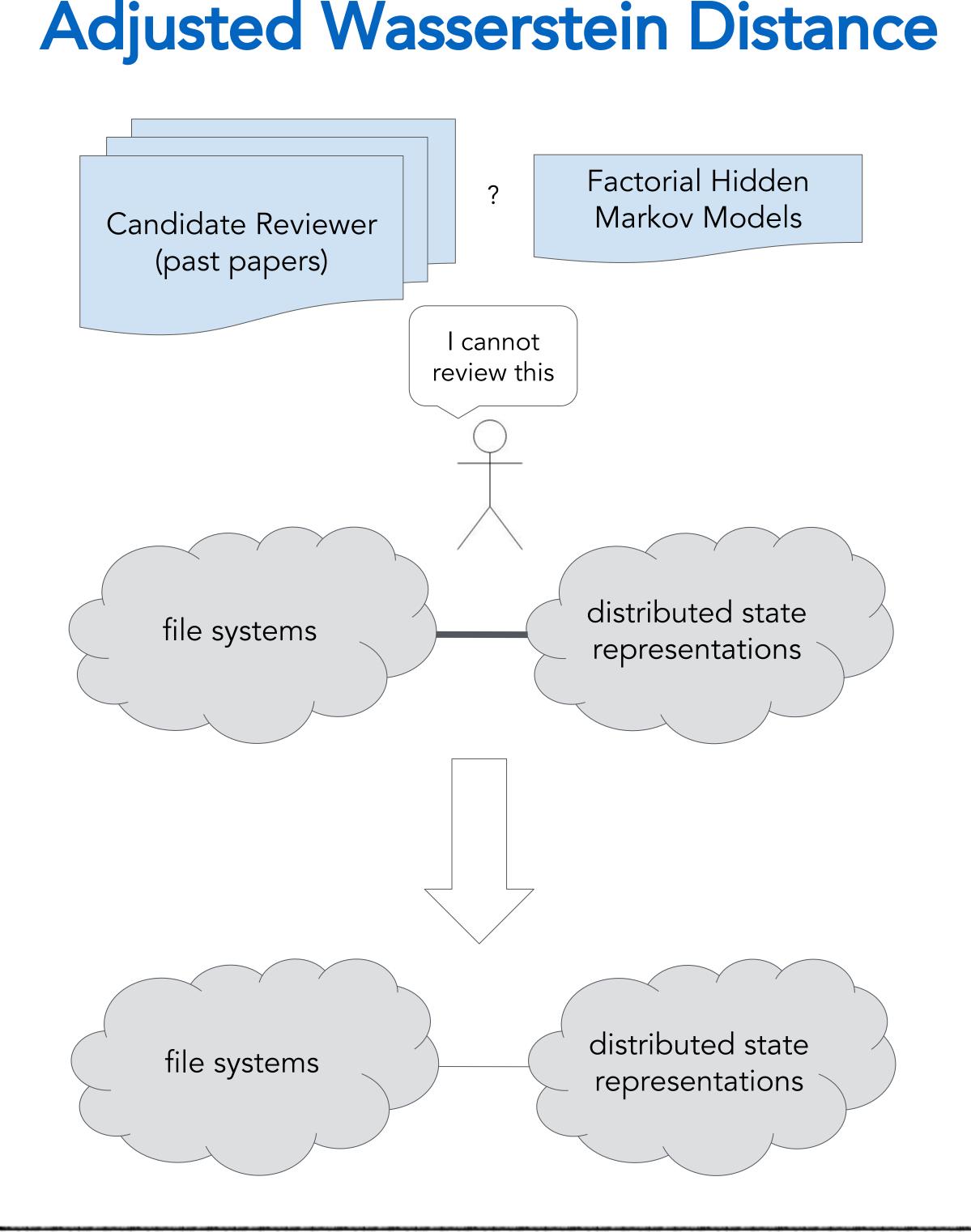
Reviewer-Paper Affinity Computation using Adjusted Wasserstein Distance



Justin Payan, Nicholas Monath, Michael Spector, Haw-Shiuan Chang, Andrew McCallum University of Massachusetts Amherst







Datasets & Evaluation

- Creating data from conferences hosted on OpenReview
- Compare our approach to:
 - Jaccard similarity
 - TFxIDF
 - Cosine similarity
 - Toronto Paper Matching System

Previous Experience

- Keyphrase Extraction from Scientific Literature using Joint Geometric Graph Embedding Matching (Univ. of GA)
- Implementation of in-database machine learning at Vertica (Cambridge, MA)



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NLP Network Theory Science of Science



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Long Term Plans

- Encoding higher order interactions among keyphrase sets
- Reviewer expertise changes as a function of network dynamics
- Differential privacy concerns in releasing information about reviewer expertise along with review contents