SEMANTIC ACCOUNTS OF RISK PERCEPTION

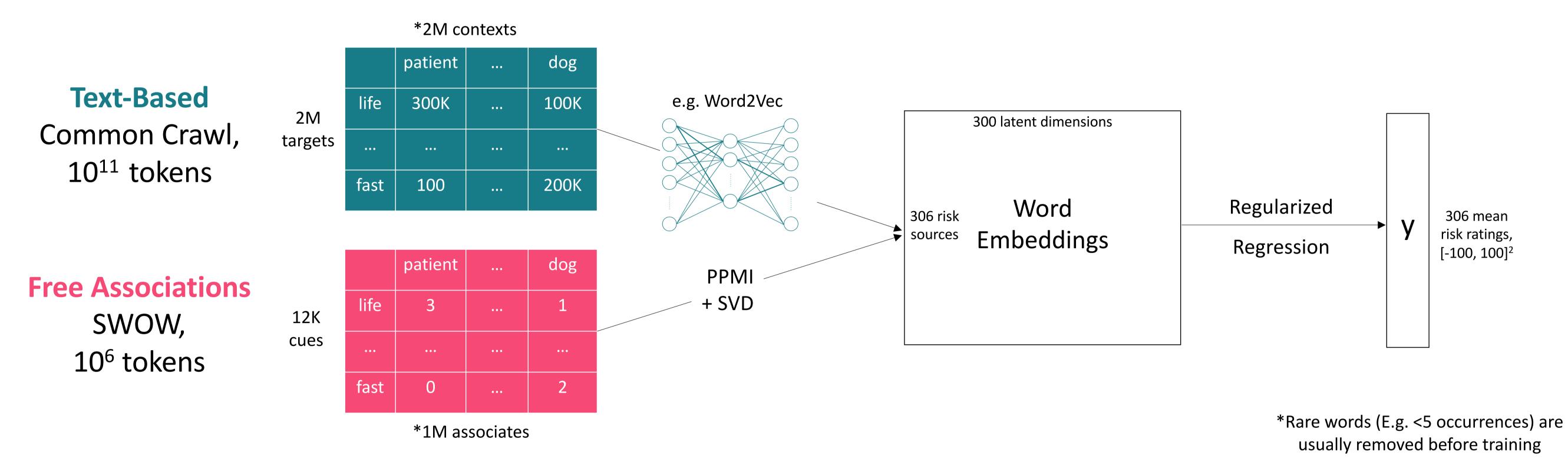
Zakir Hussain^a, Rui Mata^a, Dirk U. Wulff^{a,b}

^a Centre for Cognitive and Decision Sciences, University of Basel
^b Max Planck Institute for Human Development

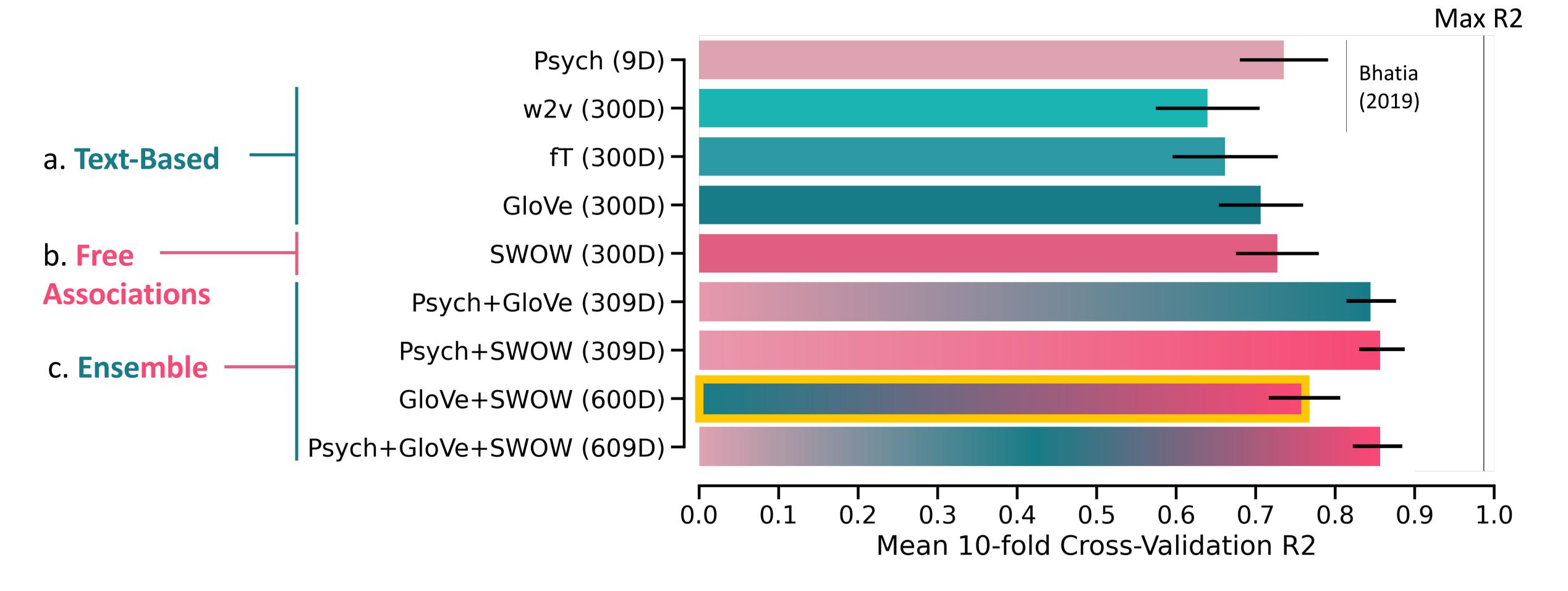
Individuals face an increasingly large number of social and technological risks. The ability to predict how these risks are perceived is of critical interest for researchers and policymakers alike¹. In this project, we ask:

- 1. Can we improve the language-based prediction of risk perception:
 - a. Using newer text-based embeddings than those used in Bhatia (2019)² | fastText, GloVe
 - b. Using free-association based embeddings | SWOW³
 - c. Using ensemble embeddings | E.g. GloVe+SWOW
- 2. Can we leverage the best language models to understand risk polarization and improve risk communication?

Using Language Data to Predict Risk Perception



→Free Associations On Par with Text, Ensembles Beat Individual Embeddings



Next Steps: More Training Data, Risk-from-Text Applications

