

1153-18-26

Tai-Danae Bradley* (tbradley@gradcenter.cuny.edu). *A Compositional and Statistical Approach to Natural Language.*

Natural language has both a compositional and a statistical structure. These structures emerge when expressions in language combine to form longer expressions, and where the validity of an expression is captured by the statistics of the language. I'll share some ideas about this, and explain why quantum probability theory and category theory provide a good framework for understanding both structures. (Received July 28, 2019)