

Title: Frequentism as formal semantics

Abstract: This paper concerns an extension of the language of inductive logic with a formally precise notion of statistical hypothesis. First I argue that Gaifman and Snir's often overlooked notion of rich language provides us with a formal notion of statistical hypothesis. I then explore various consequences of using this notion in inductive logic, and I show how it might synthesize ideas from von Mises, Carnap, and de Finetti.