

# Understanding Cognition Through Mathematical Models

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In order to improve our understanding of the human mind it is essential to collect data by measuring brain and behavior. Proper interpretation of such data, however, requires coherent data analysis and the development of formal process models. Eric-Jan Wagenmakers advocates Bayesian analysis tools and instantiates cognitive mechanisms in specific mathematical models. Such models stimulate the development of new theory and allow a more effective interaction between psychology and neuroscience.