

Modeling the Brain and Mind

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Cognitive neuroscientists study people at two explanatory levels: the brain and behavior. Using psychometric models and brain imaging tools, Rogier Kievit explores how theoretical psychology, neuroscience, and philosophy of mind can be used to understand the links between the brain and behavior. His current research relates brain function and structure (using MRI) and cognition in aging populations using structural equation models and network analysis. With the goal of increasing health in older populations, Kievit's particular interests are in models that effectively capture how cognitive changes across lifetime relate to brain reorganization, adaptation and compensation.