## Bootstrap Prof. Dr. Natalie Neumeyer (Universität Hamburg)

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We give an introduction to the bootstrap approach and consider classical bootstrap procedures for confidence intervals and hypothesis testing in parametric and nonparametric models. We give overviews of bootstrap procedures in various models, including e.g. functional data or time series, as well as proof methods for the validity of bootstrap procedures. In detail, we consider different bootstrap procedures in nonparametric regression models.