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**Error processing: Behavioural, neural, and personality-related perspectives on an unpleasant (imperfect) event**

Error processing is an essential cognitive function, which is involved in almost every action and decision. One aim of this function is to instantaneously inhibit or correct an action or a decision to prevent worse, if possible. Its further aim is to enable learning for future situations. People differ substantially in error detection and how they deal with an imperfect performance outcome. For instance, highly perfectionistic or narcissistic individuals try to avoid errors in their daily lives. In my lab, we investigate error processing from different methodical and conceptual perspectives to get a better understanding of basic action monitoring mechanisms. Building on this knowledge, we systematically investigate personality-related variations in action monitoring. In our research, we combine behavioural measures (e.g., Response Time and Response Force), EEG (univariate and multivariate; averaged and single-trial) and personality questionnaires (e.g. perfectionism scales, narcissism scales), which is often a methodical challenge due to the different types of data. We meet this challenge by trying to continuously improve and further develop our methods for more reliable and more valid theoretical implications. To illustrate this point, I will give an insight in our research approaches and our methods, which we use to investigate (part 1) models on behavioural adjustment after error commission and (part 2) models of perfectionism-related variations in error processing. These findings have implications for the specification of error processing models and give an insight in (un)healthy strategies of human error processing, which might help to develop, for example, better coping strategies.

**Ort:**

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