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My bad! Subclinical and neurochemical alterations of performance monitoring for self and others

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Stellingen horende bij het proefschrift

My bad!

Subclinical and neurochemical alterations of performance monitoring for self and others

Myrthe Jansen

1. Being responsible for another's harm can enhance performance monitoring as indexed by enhanced amplitudes of the error-related negativity (Chapter 2).
2. Social responsibility modulations of performance-monitoring activity are dependent on individual differences in obsessive-compulsive symptoms (Chapter 4).
3. More insights into social and functional disturbances in obsessive-compulsive disorder could be gained by including more interactive social-cognitive paradigms (Chapter 3).
4. (Performance-monitoring) research should take ovarian hormonal status into account (Chapter 5).
5. Pharmacological manipulation of dopamine and oxytocin can alter the neural correlates of prosocial performance monitoring (Chapter 6 and 7).
6. Neuroimaging results are greatly impacted by methodological choices used to preprocess the data. Performance-monitoring research would therefore benefit from more standardized and transparent ways of reporting and comparing these choices.
7. Omitting random slopes for within-subject factors in linear mixed models is like not wearing a helmet when riding a motor cycle: you might get away with it sometimes, but it's a mistake that can have serious consequences.
8. Since non-significant findings are not evidence for no effect, such findings are not informative. Combining frequentist statistics with Bayesian approaches and making such Bayesian alternatives more accessible to (psychological) researchers will allow for richer inferences and provides an important way to combat the file-drawer problem. This is especially relevant to neuroimaging research where small sample sizes are common.
9. Doing a PhD about errors is an effective desensitization technique to reduce high ERN amplitudes in perfectionistic researchers.
10. Completing a PhD project is like having walked a single trailway within a forest full of trails: by the end you can describe this one specific trail, but so many paths remain unexplored.