Open Science Discovery for PhD students

Wolf Vanpaemel

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Wolf Vanpaemel, professor of Quantitative Psychology, talks about transparency for better and reliable research. He shows what researchers can do to ensure readers know that findings are credible, by avoiding incorrect results and false positives. For avoiding publishing incorrect results, various tools for self-checks have been developed recently (GRIM, statcheck) that can be used by the researcher. Moreover, making data publicly available (with appropriate documentation in the form of metadata, a data dictionary or a codebook) and sharing data processing and analysis code helps reproducibility of results. Dynamic reporting integrates code within a paper. False positives can be avoided through blind analysis and through preregistration of the hypotheses and analyses before data inspection or data collection. This preregistration plan is then published in a non-editable and time-stamped way. A multiverse analysis can be used to demonstrate the robustness of ones's findings.

[Watch Wolf Vanpaemel's presentation](#)