KU Leuven Open Science Day

Exploring how open science practices challenge the responsible conduct of research: An international survey study

Shila Abdi¹, Natalie Evans², Tony-Ross Hellauer³, Joeri Tjldink⁴

¹KU Leuven, ²Amsterdam UMC, ³Know-Center GmbH, ⁴Vrije Universiteit Amsterdam

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Abstract

The open science movement has created a lot of attention in the past decade and became one of the main innovative forces that sparked progress in academia. Despite its great promise to foster transparency, there are potential pitfalls of open science practices that need more scrutiny and warrant further analysis in order to prevent potential breaches of research integrity. It is therefore necessary to explore the potential detrimental aspects of open science practices on the conduct of responsible research.

Author biographies

[Shila Abdi](#) (KU Leuven) is a PhD student at the Centre for Biomedical Ethics and Law under the supervision of prof. Kris Dierickx and prof. Ben Nemery. Her research is focused on the education in research integrity for PhD students. In particular, to analyze to what extent research integrity education is available to PhD students in Europe and to evaluate KU Leuven's own central lecture on research integrity. In addition, her research contributes to the adequate investigation of alleged cases of scientific misconduct, where she investigates which criteria are used by the investigation committees to qualify a case as misconduct.

[Natalie Evans](#) (Amsterdam UMC) is an assistant professor at the Department of Ethics, Law, and Humanities. Natalie is busy developing tools to support researchers in their day-to-day practices and training to foster scientific virtues, as part of two large European Commission funded projects (EnTIRE and VIRT2UE). She leads the stakeholder consultation for EnTIRE and is the scientific manager of VIRT2UE. Natalie also gives research integrity training for PhD students (Amstel Academy) and is an associate editor of the journal *Science and Engineering Ethics*.

[Tony Ross-Hellauer](#) (Graz University of Technology) is leader of the [Open and Reproducible Research Group](#), a collaborative research group based at the Institute of Interactive Systems and Data Science, TU Graz and at Know-Center GmbH, that uses evidence-based and computational approaches to make research cultures more open, transparent, and participatory through new practices and technologies. His research focuses on a range of issues related to open science evaluation, skills, policy, governance, monitoring, and infrastructure. Tony has a PhD in Information Studies (University of Glasgow, 2012), as well as degrees in Information and Library Studies and Philosophy. He is coordinator of the H2020 project ON-MERRIT, researching

issues of equity in open science. He is former scientific manager for OpenAIRE, co-author of the *Open Science Training Handbook*, and a core member of Research Data Alliance Austria. He is formerly editor-in-chief of the Open Access journal *Publications* and co-leads Transpose, a grassroots initiative to build a crowdsourced database of journal policies for preprints and peer review.

[Joeri Tjldink](#) (Amsterdam UMC) is an assistant professor in the Philosophy Department (Faculty of Humanities) and at the Ethics, Law, and Humanities department. His main research focusses on research integrity, mental health in academia, research culture, publication pressure, open science, the validity of clinical trials, and assessment of research and researchers. He is currently leading a H2020 WP in the SOPs4RI-project that creates policy for research performing and research funding organizations. He is also the author of the book *Scholar on the Sofa, how to survive in academia* (2019). Apart from his work as a researcher, he works as a clinical psychiatrist and is cofounder and chair of [De Jonge Psychiater](#), a not-for-profit organization that discusses and promotes research in psychiatry.