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## Advancing the evaluation of graduate education: towards a multidimensional model in Brazil

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# About the Author

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André Brasil is a researcher at the Centre for Science and Technology Studies (CWTS | Leiden University), focusing on national evaluation systems, scientometrics, scholarly publishing, open science, responsible research and innovation (RRI) and diversity in science, especially concerning multilingualism and geographic inclusion. As part of his activities, he is a member of the UNESCO Chair for Diversity and Inclusion in Global Science and a research fellow at the Research on Research Institute (RoRI). André is also affiliated with the Brazilian Agency for Support and Evaluation of Graduate Education (CAPES), working at the Division of Studies and Research in Evaluation.

André completed his secondary education at Colégio Objetivo in 1993. With a drive for a varied academic foundation, he earned a bachelor's degree in Languages & Literature alongside an associate degree in Marketing Management from the Methodist University of São Paulo (UMESP). Enhancing his profile, he earned specialist degrees in Business Intelligence and Teaching in Higher Education. In 2018, he earned his Master's degree in Public Policy and Development from the Brazilian Institute for Applied Economic Research (IPEA). His doctoral research was conducted at CWTS with the focus on improving the Brazilian evaluation system for research and graduate education, a key strategy to ensure the quality and development of Science & Technology in the country.

## List of publications

### Articles in this dissertation

- Brasil, A.** (2020a). Building a national system of research and graduate education: How did the university become the house of science in Brazil? *Revista NUPEM*, 25(1), 178–198. <https://doi.org/10.1590/s1414-407720200001000010>
- Brasil, A.** (2021b). A national evaluation push towards increased societal impact: The Brazilian experience in valuing broader research outputs. *SocArXiv*. <https://doi.org/10.31235/osf.io/s98x3>
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- Brasil, A.** (2023f). Rethinking a national classification of research and graduate education. *Profesional de la Información*, 32(2), e320224. <https://doi.org/10.3145/epi.2023.mar.24>
- Brasil, A.** (2023h). The dynamics of a national evaluation system: The Brazilian model and its role in developing research and graduate education in the country. *SocArXiv*. <https://doi.org/10.31235/osf.io/wf5kn>
- Brasil, A., & Trevisol, J. V.** (2023b). Research evaluation in Brazil and the Netherlands: A comparative study. *SocArXiv*. <https://doi.org/10.31235/osf.io/er9fa>

### Other articles

- Bernstein, M. J., Nielsen, M. W., Alnor, E., **Brasil, A.**, Birkving, A. L., Chan, T. T., ... Mejlgaard, N. (2022). The Societal Readiness Thinking Tool: A Practical Resource for Maturing the Societal Readiness of Research Projects. *Science and Engineering Ethics*, 28(1), 6. <https://doi.org/10.1007/s11948-021-00360-3>
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### Book chapters

- Brasil, A., & Trevisol, J. V.** (2021). O Sistema Nacional de Pós-Graduação no Paraná: Características e Dinâmicas de Desenvolvimento. In V. d. S. Oliveira & F. G. Costa (Eds.), *Pós-graduação e pesquisa: Formação e desafios no contexto da UENP*. Cornélio Procopio: Editora UENP.

## Conference full papers

- Brasil, A.** (2019a). Accreditation of graduate courses in Brazil: analysing the evaluation of the first proposals of professional doctorates in the country. In *17<sup>th</sup> Conference of the International Society for Scientometrics and Informetrics (ISSI)*, Rome, Italy.
- Brasil, A.** (2021c). A national evaluation push towards increased societal impact: The Brazilian experience in valuing broader research outputs. In *Eu-SPRI Conference 2021*, Oslo, Norway.
- Brasil, A.** (2021d). Beyond the Web of Science: An overview of Brazilian papers indexed by regionally relevant databases. In *18<sup>th</sup> Conference of the International Society for Scientometrics and Informetrics (ISSI)*, Leuven, Belgium.
- Brasil, A.** (2022f). Rethinking a national classification system of research and graduate education. In *26<sup>th</sup> International Conference on Science, Technology and Innovation Indicators (STI)*, Granada, Spain.
- Brasil, A.** (2023a). Between Bibliometrics and Peer Review: The Evolution and Challenges of Brazil's Qualis System. In *27<sup>th</sup> International Conference on Science, Technology and Innovation Indicators (STI)*. <https://doi.org/10.55835/6442f8d5389baf2145b264d9>
- Brasil, A.** (2023i). The impact of graduate education on academic publishing: A comparative analysis from a Brazilian perspective. In *19<sup>th</sup> Conference of the International Society for Scientometrics and Informetrics (ISSI)*, Bloomington, IN.
- Brasil, A., Chen, C. M.-L., & van Leeuwen, T.** (2022). Analysing Open Access publishing beyond Plan S: Motivations for publishing in Hybrid and Bronze OA formats. In *26<sup>th</sup> International Conference on Science, Technology and Innovation Indicators (STI)*, Granada, Spain.
- Brasil, A., Trevisol, J. V., & van Drooge, L.** (2022). Research evaluation in Brazil and the Netherlands: A comparative study. In *Eu-SPRI Conference 2022*, Utrecht, Netherlands.
- Brasil, A., & van Leeuwen, T.** (2022). The unseen costs of article processing charges: The different realities of Brazil and the Netherlands. In *26<sup>th</sup> International Conference on Science, Technology and Innovation Indicators (STI)*, Granada, Spain.

## Conference / Workshop abstracts and posters

- Brasil, A.** (2019c). The Brazilian Portal of Journals: Government funded access to scientific publications [Poster], In *WTMC Autumn Workshop: Open*, Deursen-Dennenburg, Netherlands.
- Brasil, A.** (2020b). Evolving the evaluation of graduate education [Poster], In *CWTS PhD Workshop*, Leiden, Netherlands.
- Brasil, A.** (2021e). Defeating the gender gap in Brazilian science: Funding strategies to reduce historical asymmetries [Abstract], In *Funded and Unfunded Science Symposium*, Prague, Czech Republic: Czech Academy of Sciences.
- Brasil, A.** (2021h). When indicators are not enough: The Brazilian Qualis experience in combining metrics with peer-review [Abstract], In *Book of abstracts of the Nordic Workshop on Bibliometrics and Research Policy*, Odense, DK: University of Southern Denmark.
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- Brasil, A.** (2023g). Rethinking evaluation to help steer a national science system [Extended abstract], In *Eu-SPRI Conference 2023*, Brighton, United Kingdom.
- Brasil, A., Meijer, I., & Llorente, C.** (2022). Responsibility in research evaluation practices: Lessons from a global discussion [Poster], In *REvaluation'22*, Vienna, Austria.
- Jong, S., Klippe, W., **Brasil, A.**, Chan, T., & Meijer, I. (2020). Online tools to bridge the gap between research policy and academic practice [Short paper], In *Eu-SPRI*, <https://euspri2020.nl> (*Conference cancelled - Work presented at virtual Eu-SPRI track*), Utrecht, Netherlands.
- Trevisol, J. V., & **Brasil, A.** (2020). A autoavaliação nas políticas da pós-graduação brasileira [Extended abstract], In *Proceedings of the XIII Reunião Científica da ANPEd-Sul*, Blumenau, SC.

## Scientific reports

- Brasil, A., & Trevisol, J. V.** (2023a). *ENRESSH country report: Brazil*. ENRESSH.
- Calero-Medina, C., & **Brasil, A.** (2020, March). *Bibliometric analysis of research collaboration between Brazil and the Netherlands 2008–2018: Report for Netherlands Innovation Network*. Leiden, Netherlands: CWTS BV.
- Monteiro, A. L., **Brasil, A.**, Horta, B. L., Mamiya, E. N., Federizzi, L. C., Verhine, R. E., & Júnior, W. R. d. S. (2019). *Ficha de Avaliação*. Brasília, Brazil: CAPES. Retrieved from <https://bit.ly/2PmAf0q>
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- Winter, E., **Brasil, A.**, Moraes, C. L. d., Granjeiro, J. M., Filho, J. R. d. S. V., Nichiata, L. Y. I., ... Pascutti, P. G. (2019). *Produção técnica*. Brasília, Brazil: CAPES. Retrieved from <https://bit.ly/3t06SiJ>

## Scientific blog posts and magazine articles

- Brasil, A.** (2020d, March 12). Sorbonne declaration on research data rights [Leiden Madtrics]. Retrieved from <https://leidenmadtrics.nl/articles/sorbonne-declaration-on-research-data-rights>
- Brasil, A.** (2021f, September 7). Move away from metrics, but beware of subjectivity [SUPER MoRRI Blog]. Retrieved February 2022, from <https://bit.ly/32V9nM2>
- Brasil, A.** (2021g, June 1). Responsibility in research evaluation practices: Lessons from a global discussion [SUPER MoRRI Blog]. Retrieved from <https://super-morri.eu/responsibility-in-research-evaluation/>
- Brasil, A.** (2023d, March 4). Open Science Knowledge Platform: A journey to a dynamic resource [Leiden Madtrics]. Retrieved from <https://leidenmadtrics.nl/articles/sorbonne-declaration-on-research-data-rights>

- Brasil, A., & Waltman, L. (2022).** Make analytics inclusive: Publication databases still miss too much of the world's research [Research Europe]. Retrieved February 20, 2022, from <http://bit.ly/123412>
- Brasil, A., Eun, S., van de Klippe, W., & Ràfols, I. (2020, April 30).** Covid-19: What do funders consider relevant research? [Leiden Madtrics]. Retrieved from <https://leidenmadtrics.nl/articles/covid-19-what-do-funders-consider-relevant-research>

## Invited talks

- Brasil, A. (2019b).** Gender policies in science in Brazil [Presentation]. In CWTS & Elsevier's International Center for the Study of Research (Org.), *Workshop Gender Inequalities in Science*: October 2019, Leiden, Netherlands.
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- Brasil, A. (2020e).** The Brazilian System of Research and Graduate Education: Overview and potencial for cooperation with LUMC [Presentation]. In Leiden University Medical Center (Org.), *Mini-seminar Brazilian-Leiden collaborations: Novel opportunities*: February 2020, Leiden, Netherlands.
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- Brasil, A. (2022a).** Diversity and the opening of science. In Grupo Montevideo & Coimbra Group (Org.), *Joint high-level workshop: Strengthening academic collaboration between Latin America and Europe*: December 2022, Montevideo, Uruguay. Retrieved from <https://www.coimbra-group.eu/policy-seminars/>
- Brasil, A. (2022d).** Multilingualism at risk: The pressure to internationalise scholarly output in Latin America. In J. Pölönen, Z. Taskin, & E. Kulczycki (Org.), *STI 2022 special track on language bias in evaluative metrics*: September 2022, Granada, Spain. Retrieved from <https://sti2022.org/program/>
- Brasil, A. (2022e).** O impacto do sistema brasileiro de avaliação nos periódicos científicos. In Associação Brasileira de Editores Científicos (Org.), *ABEC Meeting 2022*: October 2022, Botucatu, Brazil. Retrieved from [https://www.abecbrasil.org.br/eventos/meeting\\_2022/meeting22.php](https://www.abecbrasil.org.br/eventos/meeting_2022/meeting22.php)
- Brasil, A. (2022g).** The Brazilian model for the evaluation of scholarly output [Presentation], In *Federation of Finnish Learned Societies*: September 2022, Helsinki, Finland.
- Brasil, A. (2022h).** Valuing local language and regional relevance in research. In Scientific and Technological Research Council of Türkiye (TÜBİTAK) (Org.), *International Open Science Week 2022*: October 2022, Ankara, Turkey. Retrieved from <https://etkinlik.ulakbim.gov.tr/event/77/>
- Brasil, A. (2023b).** Current challenges and prospects for the internationalization of science. In Federal University of Paraná (Org.), *Seminar on the Internationalization of Postgraduate Education and Research*: March 2023, Curitiba, Brazil. Retrieved from <https://www.youtube.com/watch?v=7K8DqCDjx0I>

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- Kaiser, F., & **Brasil, A.** (2021). A Metodologia U-Multirank [Roundtable]. In ABAVE (Org.), *VII CONBRATRI – Avaliação educacional no contexto de desigualdades*: September 27–29, 2021, Brasília, Brazil.

## Colophon

This document was designed by André Brasil using the *Clean Thesis* style as a starting point. The thesis was typeset using pdf $\text{\LaTeX}$  and the  $\text{\LaTeX} 2_{\epsilon}$  environment, using the following packages:

|           |              |            |            |                |
|-----------|--------------|------------|------------|----------------|
| adjustbox | charter      | glossaries | microtype  | tabulary       |
| amsfonts  | cleantthesis | graphicx   | multicol   | textcomp       |
| amsmath   | csquotes     | hyperref   | multirow   | tgheros        |
| amssymb   | enumitem     | inputenc   | rotating   | threeparttable |
| array     | float        | listings   | setspace   | tocloft        |
| babel     | fontawesome  | lmodern    | siunitx    | verbatim       |
| biblatex  | fontenc      | longtable  | subcaption | xcolor         |
| booktabs  | footmisc     | lscape     | tabto      | xkeyval        |
| caption   | geometry     | makecell   | tabularx   |                |

The original *Clean Thesis* style was developed by Ricardo Langner, based on user guide documents from Apple. The template is available at <http://cleantthesis.der-ric.de/>.

Most figures in this document were created using a combination of R, Tableau Desktop, and Flourish Studio. The code, data, static and interactive visualisations generated for this thesis can be accessed from the project Github repository:

 <https://github.com/AndreBrasil/advancing.evaluation>