

Bernardo Gonçalves

CONTACT INFORMATION

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Website: <http://turingfutures.com>
Profile: Philosopher, Turing scholar

OBJECTIVE

My professional goal is to contribute to the debate about the future of intelligent machines in society by clarifying and disseminating Alan Turing's vision. I also have a mid-term project, if the material conditions exist, to write an intellectual biography of Turing, focusing on his science and philosophy from a professional history of philosophy point of view.

EMPLOYMENT

University of São Paulo, Postdoctoral Fellow Sep 2020-
IBM Research, Brazil, Permanent Research Scientist Feb 2016-Aug 2020

EDUCATION

University of São Paulo, Ph.D. in Philosophy Mar 2021
University of Michigan, Visiting Scholar Mar 2015-16
National Laboratory for Scientific Computing, Brazil,
Ph.D. in Computational Modeling Jan 2015
Federal University of Espírito Santo, M.Sc. in Computer Science May 2009
Federal University of Espírito Santo, B.Sc. in Computer Science Feb 2007

RESEARCH PROJECT

The Future of AI: The Logical Structure of Alan Turing's Argument, funded by the São Paulo Research Foundation grant 19/21489-4 (extensible to Aug 2024) Sep 2020-Aug 2023

PUBLICATIONS

Irony with a point: Alan Turing and his intelligent machine utopia, forthcoming.

Galilean resonances: The role of experiment in Turing's construction of machine intelligence, forthcoming.

The Turing test is a thought experiment, *Minds & Machines*, 2022, doi:10.1007/s11023-022-09616-8

Can machines think? The controversy that led to the Turing test, *AI & Society*, 2022, doi:10.1007/s00146-021-01318-6

Stealing fire from the gods: Alan Turing (1912-1954), modern Prometheus (in Portuguese), *Perspectiva Filosófica*, 2022, doi:10.51359/2357-9986.2022.254744

Machines will think: structure and interpretation of Alan Turing's imitation game. Ph.D. Thesis. School of Philosophy, Languages and Human Sciences, University of São Paulo, São Paulo. Defended on 9 March 2021. doi:10.11606/T.8.2021.tde-10062021-173217

Note: for my AI and computer science articles, papers and patents, please refer to DBLP (pid/35/1880) and Google Scholar (user=udofaJwAAAAJ).

UNDER CONTRACT

The Turing Test Argument, research monograph under contract with Routledge.

TEACHING

Graduate courses

PCS5786 ‘The future of AI: from the Turing test to superintelligent machines’. Polytechnic School, University of São Paulo. March - July, 2021.

Undergraduate courses

INF022774 ‘Introduction to computer science’. Computer Science Department, Federal University of Espírito Santo, March - July, 2008.

AWARDS, HONORS, & FELLOWSHIPS

São Paulo Research Foundation (FAPESP) , Visiting Fellowship	2023-24
São Paulo Research Foundation (FAPESP) , Postdoctoral Fellowship	2020-23
LNCC , Nominee for the National Ph.D. Thesis Award	2015
National Research Council (CNPq) , Postdoctoral Fellowship Abroad	2015
IBM Research , Ph.D. Fellowship Award	2013-14
Carlos Chagas Research Foundation (FAPERJ) , ‘Strict A’ Ph.D. Fellowship	2013-14

PROFESSIONAL SERVICE

Refereeing

Studies in History and Philosophy of Science, *IEEE Annals of the History of Computing*, *AI & Society*, *Principia*, São Paulo Research Foundation (FAPESP), Ministry of Science, Technology and Innovation, Brazil.

Events organized

Symposium ‘AI: Philosophical, Historical and Social Aspects’, in *Eleventh Meeting of the Association for Philosophy and History of Science of the Southern Cone (AFHIC)*, Buenos Aires, Argentina, 2018. (With Orlando Pimentel and Pablo Mariconda.)

REFERENCES

Fabio Cozman

Professor of AI, Machine Learning and Probability Theory, Polytechnic School, University of São Paulo, and Director of the USP/IBM Center for Artificial Intelligence
fgcozman@usp.br

Murray Shanahan

Professor of Cognitive Robotics, Department of Computing, Imperial College London, and Senior Research Scientist at DeepMind
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Richard Staley

Professor, Dept. of History and Philosophy of Science, University of Cambridge, and Professor in History of Science, Dept. of Science Education, University of Copenhagen
rawsl@cam.ac.uk

H. V. Jagadish

ACM Fellow, Director of the Michigan Institute for Data Science, Bernard A Galler Collegiate Professor of Elec. Engg. and Computer Science, University of Michigan
jag@umich.edu

Ulisses Mello

IBM Distinguished Engineer, Former Director of IBM Research Brazil, Director of Global Technology Outlook, IBM Research, New York
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