



**JÚLIO
BARCZYSZYN**
BSc Mathematics

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who am i?

I'm an aspiring mathematical philosopher and data scientist.

I combine Mathematics, Philosophy, and Physics, bridging the gap between **logical foundations** and **modern applications**, making me a unicorn that can tackle deep conceptual and complex practical problems such as those on the frontiers of science and industry — from theory to new technologies.

*Here "core" refers to Linear Algebra, Probability Theory, etc.

core mathematics*

logic

category theory

quantum physics

python

html & css

proactivity

communication

interdisciplinarity

problem-solving

writing

experience

2021 — 2025
fellowship

Undergraduate Research Fellow

Universidade Federal de Santa Catarina

I'm studying logical foundations of physical theories under the supervision of Prof. Jonas R. Becker Arenhart in the [Research Group in Logic and Foundations of Science](#) at UFSC.

Funded by the PIBIC/CNPq undergraduate research program.

Research / Philosophy of Science / Logic / LaTeX

2019 — 2021
fellowship

Undergraduate Teaching Assistant

Universidade Federal de Santa Catarina

Provided academic support for undergraduate students, focusing on topics such as Peano axioms, elementary Number Theory, methods of proof, and logical reasoning.

Funded by the UFSC undergraduate tutoring program.

Teaching / Number Theory / Logic / LaTeX

2013 — 2014
part-time

Web Designer

Aidos Tecnologia

End-to-end development of responsive websites, using Bootstrap to build custom WordPress themes. Implemented third-party plugins like WooCommerce for e-commerce solutions.

Adobe Photoshop / WordPress / PHP / Bootstrap / HTML & CSS

education

begins 2026

Master's degree in Logic and Foundations of Science

Universidade Federal de Santa Catarina

2024 — 2027

Bachelor's degree in Philosophy (GPA: 9,50/10)

Universidade Federal de Santa Catarina

Building on my background in Mathematics, here the main focus is on acquiring analytical and conceptual tools to conduct frontier research in the philosophical foundations of Physics.

Philosophy of Physics / Logic / Philosophy of Science / Writing

2018 — 2023

Bachelor's degree in Mathematics (GPA: 8,98/10)

Universidade Federal de Santa Catarina

Emphasis on mathematical methods used in Physics and Logic. The degree was earned through a [756-hour special honors track](#) and my [final project](#) was about Stone Duality, a category-theoretic theorem, co-supervised by Prof. Luiz G. Cordeiro and Prof. Jonas R. Becker Arenhart. I also took many extra courses, e.g. Analytical Mechanics, Quantum Computing, Introduction to Python, Quantum Chemistry, Metalogic, and Semantics, to name a few.

Mathematical Physics / Logic / Category Theory / Python

portuguese

english

spanish

hobbies

Writing is my passion. So, I seek to articulate what I learn into materials that may one day become blog articles or books.

non-profit

Whenever possible, I get involved in projects aimed at disseminating science, to a general audience, with a philosophical twist.