

# Yuri Ximenes Martins

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## Abstract

- Master's in Mathematics and Ph.D. in Mathematics by the Federal University of Minas Gerais (UFMG), Brazil.
  - 13 years of experience in research related to Logic and to the foundations of Mathematics and Physics.
  - Contact with functional paradigm in proof assistant languages (Coq and Agda).
  - Professional certificate in *Full Stack Developer* by IBM (Coursera) with an emphasis in Python, Node.js, React.js and in DevOps technologies, as Git, Docker and Kubernetes.
  - Active Linux (Arch Linux), with strong experience in working into a terminal, and with command line tools as pandoc and mutt (see my [github](#)).
  - Strong experience with Bash development, with at least 10 personal projects (see my [github](#)).
  - Idealizer and co-founder of the [Math-Phys-Cat](#) organization.
  - At least 3 years of experience with web development (HTML, CSS, JavaScript e PHP), being the developer and maintainer of the [Math-Phys-Cat Wiki](#) project.
  - Experience in Go (see my [github](#)).
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## Professional Experience

**2016-today**, Researcher and Developer: Math-Phys-Cat.

I manage the server and develop the software behind the [Math-Phys-Cat Wiki](#), a platform focused on the collaborative research in Mathematics, Computer Science, Physics and Philosophy, in which I have been working in the last years.

I got, during this period, experience as the coordinator of a research group (the [Math-Phys-Cat](#)), and I acted as a leader for the projects related to it. Furthermore, we could contribute providing a new resource to the scientific community.

As a researcher I worked directly with problem solving. I developed an attentive vision focused on the elaboration of new ideas, and a critical view focused on global quality of the projects.

I developed, over the years, my own view on the process of knowledge building, reflecting in my way of working. Indeed, I normally focus on the abstraction of ideas and on getting a big picture to then build singular relations between the parts, proposing the best strategy towards the solution for specific problems.

I acted, as part of [Math-Phys-Cat](#) and in collaboration with the Federal University of Espírito Santo (UFES) and the University of São Paulo (IME-USP), as one of the organizers of two editions (in Feb 2021 and Mar 2023) of the *Brazilian Meeting in Category Theory*: the first bigger event on the topic in Brazil.

**2016-2022**, Researcher, Adviser and Professor: UFMG.

I conducted at least 5 research project on many topics in the interface between Mathematics, Computer Science and Physics, which derived 12 works submitted to international scientific journals, of which 5 were already published. 3 books were also published.

I advised 4 master's students and 9 undergrad students. I taught a variety of lectures in diverse topics in both undergraduate and graduate programs, and I lectured in congresses and meetings.

I learned to adapt to different situations/levels, and I matured in the abilities of collective-based leadership, of working in simultaneous projects, and of dealing well with goals and deadlines. Research has made me more demanding of what I develop, while teaching has taught me to adapt my language according to the audience.

The production of almost 700 pages, between dissertation and thesis, emphasizes my skill in technical-scientific writing focused on Logic.

**2010-2016**, Researcher and Lecturer: UFLA.

I worked as a researcher in three Scientific Initiations. I had the joy of teaching 11 mini-courses and was a speaker at various events.

As a researcher, I began to be experienced in problem-solving, in teamwork with supervisors, and in writing books (one of them arising from my bachelor's thesis). As a speaker, I was able to learn early on how to communicate effectively, handle diverse audiences, and organize complex ideas. —

## Academic Education

**2022**, Ph.D. in Mathematics, *Federal University of Minas Gerais* (UFMG)

**2018**, Master's in Mathematics, *Federal University of Minas Gerais* (UFMG)

**2016**, Bachelor in Physics, *Federal University of Lavras* (UFLA)

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## Certification

**July/23** (prediction), *Full Stack Software Developer*, Professional Certificate, IBM ([link](#))

1. Introduction to Cloud Computing ([credencial](#))
  2. Introduction to Web Development with HTML, CSS, JavaScript ([link](#))
  3. Getting Started with Git and GitHub ([credencial](#))
  4. Developing Front-End Apps with React ([link](#))
  5. Developing Back-End Apps with Node.js and Express ([link](#))
  6. Python for Data Science, AI & Development ([credencial](#))
  7. Python Project for AI & Application Development ([link](#))
  8. Developing Applications with SQL, Databases, and Django ([link](#))
  9. Introduction to Containers w/ Docker, Kubernetes & OpenShift ([link](#))
  10. Application Development using Microservices and Serverless ([link](#))
  11. Full Stack Cloud Development Capstone Project ([link](#))
  12. Full Stack Software Developer Assessment ([link](#))
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## Skills

Idioms:

- Portuguese: mother tongue
- English: advanced

Soft Skills:

- Initiative, companionship, promptness, efficiency, dynamism, awareness, leadership, innovation, problem-solving skills, verbal fluency, generalist vision, abstraction skills, synthesis skills, attention to detail, and dedication.

Technologies:

- Python, Go, Node.js, PHP
- HTML5, CSS3, JavaScript
- Django, React.js, Jekyll
  
- Linux, Bash, CLI (Pandoc, Mutt, Vim, etc.)
- Latex, Markdown, Vim Script
- Git, Docker, Kubernetes
- BitBucket, GitHub, GitLab, Codeberg