

Mariana Meireles

Systems engineer and coordination researcher

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SELECTED PROFESSIONAL EXPERIENCE

ANACONDA

Remote, Berlin, GE

Software Engineer III

MAY 2022 - MAY 2023

- Engineered and improved various aspects of PyScript's API, including the output system, core Python code re-architecture, WASM integration and Python multithreading in the browser, implemented the initial testing infrastructure and several aspects of the CI system
- Led early efforts in community building for PyScript. Built bridges with external projects like JetBrains, Jupyter, Pyodide and other contributors
- Organized an international, cross-project group with 8 organizations and 20+ contributors to establish a centralized set of protocols for Python web development

NASA

Remote

Subject Matter Expert

JUN 2022 - AUG 2023

- Presented the state of the art of the open science research ecosystem to the group of researchers
- [Collaborated](#) in building the chapter on the “Ethos of Open Science” for NASA’s upcoming EdX Open Science 101 course

QUANTSTACK

Remote, Berlin, GE

Scientific Software Engineer

FEB 2020 - APR 2022

- [Integrated the Cytoscape interactive graph](#) library into the Jupyter ecosystem as a widget. Developed [Jupyter kernels to support major SQL languages](#) and implemented data visualization capabilities for SQL query outputs within the notebook environment. Added a [new visualization mode](#) to Jupyter notebooks. Created a [deprecation finder](#) for Bloomberg software and contributed it to the Jupyter project
- Authored several aspects of the Mamba and Micromamba APIs and developed [R bindings](#), resulting in a package manager system 25x faster than CRAN. Released and maintained several different packages in the conda-forge ecosystem

MOZILLA

Remote

Web Performance Intern

DEZ 2018 - FEB 2019

- Cut the average loading time of the [Webcompat](#) website by 35% through the implementation of server-side rendering, HTTP/2, enhanced compression algorithms, and the removal and reimplementations of libraries
- Employed Selenium-designed tests to track down some performance bottlenecks and decrease the page load time by 1s in low-speed mobile connections
- Worked on small patches for Firefox, available on my [bugzilla profile](#)

COMPUTER SCIENCE DEP. - UFMG

Belo Horizonte, BR

Undergraduate Researcher

MAR 2018 - JUN 2018

- Collaborated with Dr. Flavio Figueiredo to investigate potential correlations between language use and gender using NLP and big data analytics

EDUCATION

SANTA FE INSTITUTE

Santa Fé Institute - Complexity Interactive

Remote

OCT 2023 - OCT 2023

RECURSE CENTER

Researcher in Reinforcement Learning and Emergent Algorithms

New York City, US

JUN 2023 - SEP 2023

AI Coordination [software projects](#)

MIT

Micro Masters Program in Data, Economics and Development Policy

Remote

MAY 2023 - HIATUS

UNIVERSIDADE FEDERAL DE MINAS GERAIS

Bachelor of Engineering, Major in Electrical Engineering; Minor in Computer Science (Incomplete)

Belo Horizonte, BR

2015 - 2018

ADDITIONAL PROJECTS

- **RADAR Generative AI Research Engineer** (*Present*): RADAR is a research collective that is looking into ways of democratizing research. I am a generative AI research engineer working on their upcoming research report about how the future will be affected by AI (2023).
- **DISC NumFOCUS Steering Council Member** (*Present*): Responsible for organizing the NumFOCUS Unconference 2023, updating the NumFOCUS DISCOVER Cookbook and [developing integration programs](#) aimed at enabling participation from individuals in poverty within the open science ecosystem
- **Jupyter Widgets Committee Member** (*Present*): Community maintenance and governance stewardship
- **Women of Color Code Organizer** (*Present*): Software mentor and co-organizer of this project that seeks to unite members of minoritized groups to battle feelings of isolation and marginalization that are prevalent in educational institutions and industry settings
- **PyLadies Berlin Organizer** (*Present*): Organizer of PyLadies Berlin, facilitating [workshops and talks](#)
- **Open Life Science Mentor** (2023): Mentored an undergraduate software engineer in the development of a program designed to integrate young research software engineers into the field. This project is affiliated with UK-RSE
- **Guest Lecturer by the LSSTC-DSFP at Harvard** (2022): [Instructed graduate students in Astronomy](#) on topics such as Object-Oriented Programming (OOP), performance optimization for scientific software, as well as open science and reproducible research practices

AWARDS

- “[Jupyter Distinguished Contributor](#)” award

2022