

# Mariana Meireles

## CooperativeAI researcher

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### SELECTED PROFESSIONAL EXPERIENCE

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#### IMPACT ACADEMY

Remote, Bangalore, IN

##### Research Fellow

OCT 2023 - PRESENT

- Researching cooperative AI and mechanistic interpretability

#### RADAR

Remote

##### Generative AI and Alignment Research Engineer (Contract)

SEP 2023 - Nov 2023

- RADAR is a research collective that is looking into ways of democratizing research. I'm working on an upcoming research report that explores the implications of artificial intelligence on the future
- Developing an Open Source [Framework](#) for Aligning LLMs

#### 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 (Contract)

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

## THE QT COMPANY

Berlin, GE

### Desktop GUI Software Engineer (Contract)

SEP 2019 - DEC 2019

- Responsible for maintaining and building new features for PySide (the Python bindings for Qt)
- Added support functionalities for PySide on Qt Creator
- Developed a [voice and text assistant](#) for the Berlin Qt Conference 2019

## 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 reimplementing 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

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### SANTA FE INSTITUTE

Remote

*Santa Fé Institute - Complexity Interactive*

OCT 2023 - OCT 2023

[Writing](#) “How does polarization and inequality scale with spatial and population size”

### RECURSE CENTER

New York City, US

*Researcher in Reinforcement Learning and Emergent Algorithms*

JUN 2023 - SEP 2023

AI Coordination [software projects](#)

### MIT

Remote

*Micro Masters Program in Data, Economics and Development Policy*

MAY 2023 - HIATUS

### UNIVERSIDADE FEDERAL DE MINAS GERAIS

Belo Horizonte, BR

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

2015 - 2018

## ADDITIONAL PROJECTS

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- **Open Knowledge Foundation [Expert](#)** (*Present*): Offering workshops, delivering talks and mentoring people into the open movement
- **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 of underprivileged communities into the open science ecosystem
- **Internet Society Member** (*Present*): Brazilian Chapter, [Rural Development Community and Affordable Internet Access SIG](#)
- **Jupyter Widgets Committee Member** (*Present*): Community maintenance and governance stewardship

- **Women of Color Code Organizer** (*Present*): Software mentor and co-organizer. The project seeks to unite members of minoritized groups in educational institutions and industry settings. Here I have delivered several software and open science classes to graduate students of various backgrounds
- **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

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

2022