

Debian as a sustainable ecosystem for the distribution and use of Research Software

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This talk is part of a PhD research program in the Postgraduate Program in Computing ([PGCOMP-UFBA](#)) and aims to investigate Debian as a collaborative infrastructure for research and sustainable ecosystem for distributing and using research software, and includes an exploratory analysis of existing projects in this scenario, such as Neuro Debian, Debian Med and Debian Science.

A summary of the literature on Debian's presence in academic research will be presented, whether as an object of study, a tool for data collection or analysis, an infrastructure or even as a case study. This summary will provide an overview of Debian's role and its participation in scientific research over the years, paving the way for understanding key concepts of the relationship between Debian and:

- Research Software
- Research Software Ecosystem
- Software Collection
- Software Distribution and Linux Distribution
- Collaborative infrastructure for research
- Research Software Sustainability

The PhD research program is structured in three phases, divided into the studies below:

- Study 1: Debian as a sustainable ecosystem for the distribution and use of Research Software
- Study 2: Analysis and characterization of the Debian project and system in the scientific community
- Study 3: Evolution and quality of the Debian system architecture and Research Software packages

The topics of the Study 1 will be discussed in this talk, making it possible to understand the role of Debian in scientific research and the potential for using Debian as a collaborative research infrastructure in a sustainable research software ecosystem.

To find out more about the PhD research program and the details of each study, see the link below (*in Portuguese only*):

- <https://seed-br.github.io/research/ecossistema-debian-research-software>