MATHEUS HOSTERT

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Interested in research, data science, and software development. Strong background in Python and C++ programming. I am at my best when learning new things, and I enjoy technical and conceptual challenges in physics and computing.

Positions

Post-Doctoral Researcher — Perimeter Institute   Oct 2019 — Present

Joint appointment with the University of Minnesota.

Developing computer simulations of complex physical systems, analyzing experimental data with statistical methods, leading graduate and master level students, and presenting results at international conferences. Experience with working under time pressure.

Education

Receipt of excellence-based Brazilian scholarship for partial undergraduate and full Ph.D. abroad.

Ph.D. in Theoretical Particle Physics – Durham University, United Kingdom   Oct 2015 — Sep 2019

B.S. in Physics – Federal University of Santa Catarina, Brazil   Mar 2011 — Jun 2015

Experience

Python and **C++** — Extensive experience with Python and C++ development. Expert on Numpy and Pandas. Some experience with TensorFlow and PyTorch.

Git — Extensive experience with collaborative Git projects on GitHub and GitLab.

Unix — Extensive experience with Bash on Linux and Darwin Unix operating systems.

Data visualization — Advanced data visualization skills. Expert in Python's Matplotlib and Dash for graphs and dashboards. Also an expert in Microsoft Excel.

Writing — Extensive experience writing scientific and technical articles. Expert in Latex and Microsoft Word. Published over 20 peer-reviewed articles in internationally renowned journals.

Languages — Native speaker of Portuguese, fluent in English, and basic knowledge of Spanish and French.

Leadership — mentored over six graduate students in research projects, and led dozens of research projects.

Communication — Over 50 talks given at international conferences and institutions. Has also engaged with high-school students and teachers in multiple outreach events.