Daniel Medeiros

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EDUCATION

KTH Royal Institute of Technology   **2025**
PhD in Computer Science, specialization in High Performance Computing and Visualisation   *Stockholm, Sweden*

- Coordinated three project work package deliverables, and co-authored other two for the research projects OpenCUBE and IO-SEA, both funded by the European Union under the Horizon 2020 programme.
- Worked directly with several partners, both from industry and academia, towards the migration of on-premises high-performance computing workloads to a Kubernetes-based heterogeneous cloud testbed aiming for an optimal resource management system, where I developed proof-of-concept horizontal and vertical scaling solutions for workloads that perform better than the existing state-of-art tools for HPC workloads.
- **Relevant Coursework:** Data-Intensive Computing, Information Visualisation, Quantum Computing.
- **Relevant Leadership:** As the elected Chairperson of the PhD Chapter at KTH (July 2023 – June 2024), I was personally responsible over a 1M kronor budget direct to doctoral students' well-being and led ca. 50 people across the entire University structure towards third-level student influence, representing nearly 1600 doctoral students. I was also a member of the KTH University Board, taking a direct role in the most critical decisions regarding the University strategic management.

Federal University of Bahia (UFBA)   **2020**
Master's in Computer Science   *Salvador, Brazil*

Federal University of Rio Grande do Norte (UFRN)   **2013**
Bachelor in Geophysics   *Natal, Brazil*

WORK EXPERIENCE

Geological Survey of Brazil   **Jan., 2014 – Sep., 2021**
Researcher (Geophysicist)   *Salvador, Brazil*

- Collaborated with multidisciplinary teams across Brazil process and interpret geophysical data. Led several field data acquisition efforts and supervised contractors as needed to ensure data quality.
- Developed and implemented algorithmic /software solutions to automate long processing and interpretation steps that were previously performed manually.
- Participated on the Project of the Palmeirópolis Polymetallic Complex, auctioned by the Brazilian Government in 2019 and projected to generate over US$ 50 million in direct investments.

INTERESTS & SKILLS

- **Technical Skills:** Programming (Python, C/C++, Bash), Cloud Computing (Kubernetes, Ceph Object storage, Docker/Podman, Prometheus), CI/CD (Jenkins), High-Performance Computing (slurm, OpenMP, MPI, CUDA), Data Analysis and Visualization (matplotlib, scikit-learn, Tableau), Operating Systems (Windows, Linux, MacOS), Geoscientific Suites (SeisSpace, Oasis montaj, ArcGIS).
- **Languages:** Portuguese (native), English (advanced – C1), Swedish (intermediate – B1).
- **Awards:** Selected by the Brazilian Internet Steering Committee to participate at the United Nation's Internet Governance Forum 2017, held in Geneva (Switzerland), as part of the Youth@IGF program.
- **Voluntary:** Active Member at Action10.org.
- **Other:** Post-graduate course (400h) in Business Administration at Fundação Getúlio Vargas (Brazil).
- **Interests:** Travelling, reading, hiking, animes, tennis.

Professional references and scientific publications may be provided upon request.