Daniel Medeiros

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WORK EXPERIENCE

RISE Research Institutes of Sweden   **Apr., 2025 – Current**
Researcher   *Stockholm, Sweden*
- Contributed to the EuroCC National Competence Centre Sweden (ENCCS) project by providing consulting services in HPC and AI solutions to companies, developing training materials, and delivering training sessions as needed.

Geological Survey of Brazil   **Jan., 2014 – Sep., 2021**
Researcher (Geophysicist)   *Salvador, Brazil*
- Collaborated with multidisciplinary teams across Brazil to 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.

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 one for the research projects OpenCUBE and IO-SEA, both funded by the European Union under the Horizon 2020 programme.
- **Relevant Coursework:** GPU Programming**,** Data-Intensive Computing, Information Visualisation, Quantum Computing, Methods in High Performance Computing.

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*

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, Keras, PyTorch, 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. Board member (2024-2025) at SFS-DK. Chairperson at PhD Chapter at KTH (2023-2024).
- **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.