

DANIEL MONTEIRO CUNHA

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Professional Summary

Senior Scientist with a multidisciplinary background in materials science, thin-film deposition, and data analysis. I focus on experimental design and modeling, often collaborating with researchers from different fields to understand and improve complex systems. Skilled in materials characterization, scientific software development, and interdisciplinary mentoring.

Career Highlights

- Provided regular supervision and mentorship to PhD, postdoc, and MSc researchers.
- Initiated and led interdisciplinary collaborations, resulting in co-authored publications beyond core group activities.
- Supported lab operations and resource tracking, improving equipment and data management.
- Developed custom Python-based tools to support data analysis across multiple research projects.
- Represented staff in the departmental board and organized events via the faculty social club.

Professional Experience

Senior Scientist

University of Twente

Enschede, NL

- Research on Pulsed Laser Deposition and Scanning Probe Microscopy.
- Guided experimental design and analysis for research teams.
- Mentored students and postdocs across projects.

Researcher

University of Twente

Enschede, NL

- Executed experiments for solid-state battery applications.
- Collaborated with industry partners to optimize performance via data-driven planning.

PhD Researcher

University of Twente

Enschede, NL

- Developed oxide thin films and characterization techniques for microbatteries.
- Created nanoscale models and supervised undergrad/master students.

Education

PhD in Materials Science

University of Twente

Enschede, NL

BSc in Energy Engineering (Cum Laude)

Federal University of ABC

Santo André, BR

BSc in Science and Technology

Federal University of ABC

Santo André, BR

Skills

- **Technical:** Pulsed Laser Deposition, Scanning Probe Microscopy, Python, MATLAB, SolidWorks, Origin, Gwyddion, experimental design
- **Analytical:** Predictive modeling, data analysis, data-driven decision-making
- **Communication:** Student supervision, teaching, scientific writing, collaborative work across disciplines

Languages

Portuguese (native), English (fluent), Spanish (intermediate), Dutch (basic)

Personal Interests

Running, Boulderling, Drumming, Cooking, Reading