

# DANIEL MONTEIRO CUNHA

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## Professional Summary

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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.

## Areas of Contribution

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- 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

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### 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

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### 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

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- **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

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

## Personal Interests

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Running, Boulderling, Drumming, Cooking, Reading