

Gonalo Santos Paulo



About me

I've always wanted to be a scientist. I love learning about a problem, brainstorm about solutions and discuss with other people my ideas. I've always enjoyed learning, and I think that helps me be a good discussion partner.

personal

Gonalo Santos Paulo
Nationality: Portuguese
Date of birth: 25/08/1997

Areas of specialization

Condensed matter Physics
• Computational Physics

Interests

I'm very interested in AI safety.
I'm also very sociable and active around people.

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uniroma.it

srgonao

SHORT RESUM 

- 2024 **Interpretability research Intern**
• EleutherAI
Currently researching interpretability methods using Sparse Autoencoders, mainly using automated interpretability tools.
- 2023–2024 **PostDoc**
• Sapienza university of Rome
Research focused on memristive behaviour due to hydrophobic gating, nanofluidics, and intrusion in hydrophobic materials.

DEGREES

- 2023 **Theoretical and Applied Mechanics**
SAPIENZA UNIVERSITY OF ROME •
- 2020 **Physics**
MASTER DEGREE •
Faculty of Science
University of Lisbon
- 2018 **Physics**
BACHELORS DEGREE •
Faculty of Science
University of Lisbon

CERTIFICATES & GRANTS

- 2022 Grant of computer resources on the Italian SuperComputing Resource Allocation (IRCA-C project)

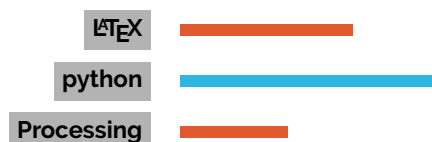
LANGUAGES

Portuguese	C2	mother tongue
English	C2	• • • • •
Italian	B1	• • • •

TALKS

- March 2022 "Building an artificial neuron with simple hydrophobic nanopores: a one component memristor", at: *American Physical Society* online.

PROGRAMMING



PUBLICATIONS

- 2024 *Does Transformer Interpretability Transfer to RNNs?*, ArXiv.
- 2023 *Hydrophobically gated memristive nanopores for neuromorphic applications*, *Nature Communications*.
- 2023 *The impact of secondary channels on the wetting properties of interconnected hydrophobic nanopores*, *Communications Physics*.
- 2023 *Optimization of the Wetting-Drying Characteristics of Hydrophobic Metal Organic Frameworks via Crystallite Size: The Role of Hydrogen Bonding between Intruded and Bulk Liquid*, *Journal of Colloid and Interface Science*.
- 2023 *An atomistically informed multi-scale approach to the intrusion and extrusion in hydrophobic nanopores*, *Journal of Chemical Physics*.