Nuno Braz

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Summary

PhD candidate researching mechanism design and game theory for decentralized governance at INESC-ID / Instituto Superior Técnico. Published work on decision-making mechanism for DAOs. Background in computer science, security and algorithms, with some engineering experience in smart contracts.

Education

PhD in Computer Science and Engineering 2025 – PRESENT
Instituto Superior Técnico, University of Lisbon Supervisor: Miguel Correia
Thesis: Decision-Making Mechanisms for Decentralized Economies.
Focus on mechanism design, game theory, and information aggregation for DAO governance councils.

Master's Degree in Computer Science and Engineering 2022 – 2024
Instituto Superior Técnico, University of Lisbon
Specializations in Cybersecurity and Algorithms. Additional coursework from the Mathematics Master's programme: Introduction to Learning Theory and Computability and Complexity (among others).

Bachelor's Degree in Information Systems and Computer Engineering 2019 – 2022
Instituto Superior Técnico, University of Lisbon

International Academic Experiences
Instituto Tecnológico de Buenos Aires, Argentina 2023
Exchange programme. Courses in artificial intelligence.

Beijing Institute of Technology, China Jul. 2024
Summer programme on emerging technologies in electronics engineering.

Publications

- **N. Braz**, M. Correia, "Binary Decisions in DAOs: Accountability and Belief Aggregation via Linear Opinion Pools," *arXiv preprint*, 2025.
- **N. Braz**, "An Approach to Blockchain Voting for RWA Governance," in *2025 IEEE NCA*, pp. 312–313, IEEE, 2025. Blockchain-based voting using Threshold Homomorphic Encryption and Signatures of Knowledge.
- **N. Braz**, J. Santos, T. Dias, M. Correia, "Blockchain Oracles for Real Estate Rental," *arXiv preprint arXiv:2504.06180*, 2025.

Research & Professional Experience

First Stage Researcher – INESC-ID Nov. 2024 – Present
Design and analyze mechanism design solutions for decentralized governance. Built tools to help on reseach. Author scientific papers on governance design for DAOs.

Researcher / Blockchain Engineer – INESC-ID & Unlockit Jul. 2023 – Nov. 2024
Designed and implemented two blockchain oracle solutions for a property rental platform.

Teaching Assistant – Instituto Superior Técnico Nov. 2025 – May 2026
Network and Computer Security (Master's level): cryptographic protocols, secure code development.
Distributed Systems (Bachelor's level): consensus, fault tolerance, coordination, RPC.

Projects

DMsim – Decision Making Simulator GitHub

Python simulator that uses LLMs to generate agent preferences from a given context and simulates decision-making mechanisms over those preferences.

DAO for Fractionalized RWA Governance GitHub

Smart contract system (Solidity, ERC-1155) for governing fractionalized real-world assets through on-chain voting. Implements token-weighted governance from first principles.

Property Rental on the Canton Network GitHub

Proof-of-concept of Daml workflows for property rental agreements, including dispute resolution and automated rent payments on the Canton Network.

Knowledge

Research:	Mechanism Design, Game Theory, Information Aggregation
Blockchain:	Smart Contracts, ERC Standards, Canton Network
Programming:	Python, Solidity, Java, C/C++, Daml

Awards

- Academic Merit Award – Instituto Superior Técnico
- Tokenized RWA Bootcamp

Languages

Portuguese (native) — English (advanced) — Spanish (advanced) — French (working proficiency)

Extras

- Federated Rugby Player and Surf Athlete, competed in national competitions.
- Volunteer at Batu Kapal Conservation, North Sumatra – wildlife research, orangutan mapping, and habitat restoration.

Last updated: March 30, 2026