

Tiago Mateus Moreira de Almeida

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EDUCATION

Stevens Institute of Technology - Hoboken, New Jersey

Bachelor of Science, Computer Science | GPA: 3.95

Expected May 2027

Coursework: Matrices & Vectors, Multivariate Calculus, Discrete Structures, Data Structures, Algorithms, Computer Architecture and Organization, Linear Algebra, Intermediate Statistics, Natural Language Processing, Artificial Intelligence Machine Learning

PUBLICATIONS

Almeida, T., Zhu, Z., Ning, Y. (2026). "Conceptual Hierarchies within LLMs". *Findings of the Association for Computational Linguistics (ACL)*. (Accepted).

RESEARCH INTERESTS

Mechanistic Interpretability, LLM Agents, Cognitive AI

RESEARCH EXPERIENCE

Explainable and Controllable AI Lab | Hoboken, New Jersey

Research Assistant

2024-Present

- Spearheaded mechanistic interpretability research, first-authoring a manuscript to ACL Findings detailing how LLMs hierarchically organize concepts (61-78% frequency).
- Developed a novel WordNet/Grok-3 dataset of 892 concepts and implemented activation patching via PyTorch forward hooks on Llama-2, Gemma-2, and Mistral-7B models.

TEACHING EXPERIENCE

Stevens Institute of Technology | Hoboken, New Jersey

Teaching Assistant - CS 135 Discrete Structures

2026-Present

- Led a weekly lab section of 60 students, delivering supplementary lectures, solving theoretical problems to reinforce core concepts, and mentoring students on programming and written assignments.
- Managed administrative duties, including organizing lab materials, grading coursework, and proctoring exams.

HONORS & AWARDS

AIRS Fellowship (15/300 Applicants Selected)

Global Scholarship, Stevens Institute of Technology

Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines

PROFESSIONAL SERVICE

Reviewer, International Conference on Machine Learning (ICML 2026)

TECHNICAL SKILLS

Languages: Python, C++

Libraries: PyTorch, HuggingFace Transformers, TensorFlow