Pedro Henrique Goncalves de Paiva

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EDUCATION

Minerva University   **San Francisco, CA**
B.Sc. in Computational Sciences, concentration in Data Science, GPA: 3.84/4   *August 2023 – May 2027*
- Relevant Coursework: Algorithms and Data Structures, Modeling Complex Systems, Single & Multivariable Calculus, Computational Methods for Bayesian Statistics, Linear Algebra
- Google Developer Student Club • Goldman Sachs - Engineering Emerging Leaders Series • Residential Instructor, Yale Young Global Scholars (STEM track), Summers 2024 & 2025

SKILLS

- **Programming Languages:** Python, C, R, SQL
- **Libraries and tools:** NumPy, pandas, SciPy, matplotlib, PyMC, Jupyter, Git
- **CS:** Algorithms and data structures, dynamic programming, complexity analysis, data modeling
- **Languages:** Portuguese (native); English (fluent); Spanish (intermediate)

Projects

Bayesian Modeling of Sports Attendance in Argentina   *November 2025*
- Built a hierarchical Negative Binomial model in PyMC to forecast stadium attendance by team and weekday
- Used posterior predictive checks and PSIS-LOO to compare pooling strategies and show how forecasts could inform scheduling and capacity planning for clubs and venues

Learning the Shape of a Pandemic (Time-Series Modeling)   *November 2025*
- Modeled epidemic case curves using flexible regression and compared distributional assumptions (Normal vs. count-based models) to capture different growth/decay dynamics
- Evaluated model fit and generalization with held-out checks, and quantified forecast uncertainty with prediction bands to communicate confidence in the trajectory

RememberMe – UC Berkeley Hack for Impact Hackathon   *February 2024*
- Led a 4-person team to build an AI-assisted memory support prototype in 24 hours
- Integrated TwelveLabs' API & Vespa for AI-powered multimedia conversion and data retrieval with database
- Won in two categories: Best Hack for Quality of Life and Best Use of TwelveLabs API (out of 40 teams)

EXPERIENCE

Neuroscience Lab, Universidad Torcuato Di Tella (UTDT)   **Buenos Aires, AR**
Research Assistant — MateMarote: Building the Learning & Mood Dataset   *September 2025 – Present*
- Writing R and Python pipelines to digitize, clean, and link 15+ years of handwritten mood and learning forms into analysis-ready tables
- Defining the data model and QA rules for the dataset, enabling future mixed-effects modeling and large-scale analysis

AURA Application Mentorship   **Remote, Brazil**
Cofounder and Mentor   *January 2023 – Present*
- Owned the product and curriculum roadmap for AURA's mentorship programs, using student feedback and funnel metrics to prioritize features and content, launching 3 new courses and 11 cohorts
- Contributing to 400+ student acceptances, led the design and rollout of AURA's online teaching platform: defined requirements, prioritized features, and partnered with dev/design to centralize classes and materials

Minerva University   **San Francisco, CA**
Teaching Assistant (Introduction to CS - Formal Analysis 50 and 51)   *August 2024 – Present*
- Support more than 200 students in programming, statistics, and simulations by debugging code, reviewing algorithm design, and answering questions during office hours
- Analyzed performance metrics and student feedback to identify pain points and propose curriculum tweaks

Code2040 Fellows Program   **Remote**
Fellow   *September 2024 – June 2025*
- Selected as one of 40 fellows in a 10 month program focused on software engineering and equity in tech
- Built knowledge in Python with industry mentors and practiced data structures, debugging, version control, and code reviews