

Lukas Paul Robertson

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Personal Profile

Genetics student at UAB (top 5% of cohort) with parallel training in informatics. Strong programmer with research experience in computational biology, bio-ML, and literature reviews. Entrepreneurial experience in non-profits. Generally interested in all things Bio \cup Neuro \cup CS.

Education

- 2023 – 2027 **B.Sc. Genetics, Universitat Autònoma de Barcelona (UAB).**
GPA: 8.56/10 (Top 5% of cohort) as an international student in a Catalan-taught program. Highly selective with the highest state-wide entry requirements for a biosciences degree.
- 2024 – 2027 **Informatics, 42 Barcelona.**
Programming school based on peer-to-peer feedback and autodidactic learning.

Research Experience

- Jun 2025 – Sep 2025 **Intern, IBMB, Perez Lab.**
- Joined a lab with no prior ML experience; tasked to use ML to investigate *C. elegans* gene regulation
 - Independently designed and created a flexible ML pipeline with data cleaning, feature engineering, and parallelized GPU acceleration
 - Established the lab's ML capabilities; lab continues to pursue this research direction
- Aug 2024 – Apr 2025 **Founding Researcher, Screwworm Free Future.**
- Investigated technical bottlenecks and tractability of *Cochliomyia hominivorax* eradication
 - Conducted literature review, consulted with researchers, and synthesised findings
 - Findings included in slide-decks and communications that helped raise \$150,000
 - Contributed to broader entrepreneurial tasks including communications, operations, and hiring.

Technical Skills

- Programming Python, C/C++, R, Bash, scripting, \LaTeX
- ML/Data Parallel/GPU computing, XGBoost, Optuna, Dask, Pandas
- Lab Cloning/genetic engineering, PCR, gel electrophoresis, microscopy, bacterial cultures, bioinformatics

Other Experience

- Mar 2024 – Mar 2025 **Founder & President**, Altruisme Efectiu UAB.
- Founded and led the student organization
 - Designed and ran a 7-week fellowship that gave participants 2 ECTS
 - Organised speaker events and mentored newer members
- Jun 2024 – Present **Organizer**, AI Safety Barcelona.
- Founding member of AI Safety Barcelona
 - Help organise events, outreach, and headhunting
- Jul 2023 – Jan 2024 **Translator/Transcriber**.
- Translated and transcribed interviews in English, Spanish, and French
 - Worked between stakeholders and project beneficiaries for a humanitarian aid consultant

Languages & Courses

- Languages **English** (Native) • **Spanish** (Native) • **Catalan** (Professional) • **Dutch** (Limited) • **French** (Limited)
- ML/Data XGBoost (Datacamp) • Parallel Programming with Dask (Datacamp) • Hyperparameter Optimization with Optuna (Datacamp) • Algorithms and Data Structures (FreeCodeCamp)
- Other Principles of Economics: Micro & Macro (MRU) • Biosecurity Fundamentals (Blue Dot Impact)

Other Activities

- Dec 2025 – Present **Representative of Biosciencias UAB.**
Represent ~2000 bioscience students in the university-wide forum (*Claustre UAB*) as an independent without party backing. Also represent ~300 Genetics students in the bioscience faculty-wide forum.
- Sep 2024 – Present **Population Genetics Mentorship.**
One of two students receiving mentorship from Prof. Antonio Barbadilla, an opportunity usually given to final year students. Offered on the basis of academic achievement.
- Feb 2025 – Present **Advisor, Karoteno.**
Advise the Spanish effective giving initiative Karoteno on strategy, tech, and outreach. Recruited for previous experience in non-profit entrepreneurship.
- Feb 2024 **Global Challenge Priorities Attendant.**
Received \$200 stipend to attend GCP workshop in Oxford, England.

References

- ✉ **Prof. Antonio Barbadilla** — Bioinformàtica de la Diversitat Genòmica, IBB, UAB
- ✉ **Prof. José Domínguez** — One and a Half Group, IGTP, UAB
- ✉ **Melanie Brennan** — EA Barcelona Organizer