Clelia (Astra) Bertelli, Undergrad

✉ astraberte9@gmail.com 🦋 @cle-does-things.bsky.social

in in/astra-clelia-bertelli ⬚ 0009-0002-3595-0498

🌐 https://cleliasportfolio.xyz ⚙ AstraBert

Employment History

April 2024 – ⋯⋯	**Founding Engineer, Criad LTD**: empowering the architecture and design field with AI
October 2024 – March 2025	**Bioinformatics researcher, NHM Wien**: Six-months of research fellowship provided through Erasmus Traineeship program. Researching on the demographic structure and evolutionary history of Drosophila melanogaster populations in Europe, using statistical and computational methods to carry on the needed analyses.
February 2024 – July 2024	**IT Assistant, University of Pavia**: Support in creating cloud-based development environments (GitPod, GitHub) for teaching/learning purposes
August 2023 – September 2023	**Bioinformatics intern, NHM Wien**: Python software developer for genetic data management and analysis in the field of phylogenesis and biodiversity protection.

Education

2022 – 2025	**B.Sc. Biological Sciences, University of Pavia, Pavia** in Biology
	University Diploma, IUSS School for Advanced Studies, Pavia in Biomedical Sciences.
2017 – 2022	**High School Diploma, Liceo C. Golgi, Breno** in Humanities Studies. Grade: 100/100 *cum laude*.

Research Publications

Journal Articles

1. A. Bertelli, S. Steindl, S. Kirchner, *et al.*, "Amplipiper: A versatile amplicon-seq analysis tool for multilocus dna barcoding," *bioRxiv*, 2024. 🔗 DOI: 10.1101/2024.12.11.628038. eprint: https://www.biorxiv.org/content/early/2024/12/17/2024.12.11.628038.full.pdf.

2. J. C. B. Nunez, M. Coronado-Zamora, M. Gautier, *et al.*, "Footprints of worldwide adaptation in structured populations of d. melanogaster through the expanded dest 2.0 genomic resource," *bioRxiv*, 2024. 🔗 DOI: 10.1101/2024.11.10.622744. eprint: https://www.biorxiv.org/content/early/2024/11/11/2024.11.10.622744.full.pdf.

Skills

Languages	Strong reading, writing and speaking competencies for English and Italian. Learning German.
Coding	Python (advanced), Bash (advanced), R (intermediate), SQL (intermediate), Javascript (learning), Typescript (learning), Rust (learning)
Databases	PostgreSQL, Qdrant, Pinecone, Supabase

Skills (continued)

Web Dev	▌	Html, Jekyll, Flask
Misc.	▌	AI solutions, Bioinformatics, Academic research, Technical writing, Science communication, Project management, Team and Solo worker

Miscellaneous Experience

Achievements

2024   ▌ **Qdrant Star**, Admitted to be part of Qdrant Stars program

Certifications

     ▌ **English language certification**. IELTS: 8.5 (C2)

2022   ▌ **English language certification**. Cambridge: 180 (C1)

2021   ▌ **Latin language certification**. Level B1

Blogs

2024   ▌ 🐳 `1MinDocker`   A DevOps blog series about Docker, from zero to hero

     ▌ 🔬 `Hop Hop Science`   A blog about open science, with a focus on Artificial Intelligence, Biology, Coding and cutting-edge tech research

Personal Projects

     ▌ All my projects are available on GitHub, on HuggingFace and on my personal website Projects page.

References

Available on Request