

Fabrizio Malatesta

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EDUCATION:

University of California, San Diego (UCSD) - B.S in Biology w/ Specialization in Bioinformatics

- Minor in Computer Science | GPA: 3.8 | Provost Honors | Expected Graduation: June 2027

EXPERIENCE:

Sanchez-Roige Lab - UCSD, La Jolla, CA | *Research Intern* **Fall 2025-Present**

- Leading a project analyzing the genetic architecture of wisdom, using GWAS and population-level genomic analyses. Implementing tools including GenomicSEM, LDSC, and MiXeR.
- Presenting findings at the upcoming UCSD URC 2026; upcoming UCSD MURALS 2026

McVicker Lab - Salk Institute for Biological Studies, La Jolla, CA | *Research Intern* **Summer 2025**

- Designed and implemented a computational framework in Bash and Python to identify low-frequency genome edits from Superb-seq single-cell sequencing data.
- Aimed to distinguish off-target Cas9-mediated events from spontaneous breaks or technical artifacts.
- Presented findings at Harvard University's NCRC 2026; NCUR 2026 @ Richmond; UCSD SRC 2025; upcoming UC LEADS Symposium.

Mueller Lab - Salk Institute for Biological Studies, La Jolla, CA | *Lab Tech I* **Fall 2024-Summer 2025**

- Conducted experiments on arbuscular mycorrhiza symbiosis, utilizing molecular techniques such as PCR, Gel electrophoresis, spore inoculation, microscopy analysis, and gene extraction.
- Designed an independent peptide treatment study across multiple plant species; presented to lab.

Weill Cornell Medicine, New York, NY | *Research Assistant* **Summer 2022**

- Conducted experiments on mitochondrial myopathies in mice to test potential therapeutic approaches.

Mediakite, New York, NY | *Production Crew Member* **2019-2023**

- Managed various tasks at on-location shoots, including set construction, camera work, and facilitating clear communication between staff and clients to ensure smooth project execution.

LEADERSHIP & ACTIVITIES:

UC LEADS Scholar - University of California, San Diego **2025-2027**

University of California Leadership Excellence through Advanced Degrees (UC LEADS)

- Selected as one of a limited number of scholars for this UC-wide research and leadership program.

Undergraduate Bioinformatics Club (UBIC) | *Officer - Finance Chair* **2025-2026**

- Managed event finances and logistics, directly enabling bioinf student body engagement and activities.

Tau Kappa Epsilon - UCSD Chapter | *Executive Board - Secretary* **2024-2025**

- Coordinate meetings and events for an 80-member organization; manage logistics and funding requests
- Organized philanthropic events, raised thousands of dollars for St. Jude Children's Research Hospital.

Student Representative - BICD 100 (Genetics) | *Volunteer* **Fall 2024**

- Participated in weekly faculty meetings to represent student feedback and share class-wide updates.

SKILLS:

- **Technical:** Python, Java, Bash, C++, FIJI/ImageJ, Microsoft Office, PADI Advanced Open Water.
- **Research:** Genomic data analysis, molecular techniques, experimental design, data interpretation.
- **Communication:** Scientific presentations, Public speaking, mentoring, collaborative teamwork.
- **Languages:** Fluent in English and Italian, Proficient in Spanish