Diane Ferragu

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EDUCATION

Miss Porters School, Farmington, CT

Diploma, Jun. 2026
GPA: 4.0/4.0

> Junior Courses: AIS Global Intensive Studies: Costa Rica, AIS Political Philosophy, AIS Biology, Physics, AIS Chinese: Modern Chinese Women (Dual Enrollment with UCONN), Literature of the Environment (Dual Enrollment with UCONN), AIS Classics and Ancient Mediterranean Studies: Myth & Meaning (Dual Enrollment with UCONN), AP Calculus BC (One SchoolHouse)

> Pursuing the Certificate of Global Studies

UCSD Extended Studies, La Jolla, CA (Remote)

BioImaging & 3D Printing (BI3DP), March 2025

Shoals Marine Laboratory/Cornell University, Portsmouth, NH

Pre-College Marine Environmental Science Summer Program, Jun. 2024
GPA: 4.3/4.0

EXPERIENCE

Mantis AI, *Intern,* Remote MIT @ Kellis Lab, Feb. 2025 - Present
- Developed cognitive cartography tools to visualize complex data relationships, enhancing data insights across multiple domains.
- Implemented machine learning models to connect genotype and phenotype data, boosting predictive capabilities for biological research.

StandOut Connect, *Intern,* Remote, Jan. 2025. - Present
- Developing professional skills through a program that helps students secure impactful internships, refine their resumes, and enhance their personal brand and interview techniques
- Joining TNPO2 Foundation as an intern for grant writing and machine learning

UCSD BioEngineering Research Scholars, *Participant,* Remote, Jan. 2025. - Present
- Conduct hands-on lab activities and remote 3D printing of biomedical models
- Gaining skills in biological imaging and design transformation for engineering applications

Independent Research Project, *Researcher,* Remote, Aug. 2024. - Present
- Pioneered research on microplastic accumulation in human biological systems
- Discovered key health correlations, contributing to emerging environmental health studies, which will be published

- Utilized machine learning models, including [Random Forest and XGBoost](#)

WorldTutors, *Tutor,* Haiti (Remote), May. 2024. - Present
- Providing tutoring in math and French to over 50 underrepresented and underprivileged students aged 6-17 in groups of 5-10 twice a week

Stratton Mountain Resort, *Ski Instructor (Seasonal Paid),* Stratton, VT, Nov. 2023 - Apr. 2024
- Taught skiing techniques to children aged 3-7 as part of the Cub Club program, providing foundational and advanced skills to approximately 150 participants

Salko Farm and Stable, *Barn Groom (Paid),* Southport, CT, Jan. 2023 - March. 2023
- Maintained clean and organized stalls, ensuring the health and comfort of horses
- Fed, watered and groomed horses according to individualized care routines
- Assisted with barn upkeep and daily operations to support a smooth workflow

LEADERSHIP & ACTIVITIES

Science Olympiad, Miss Porters School, *Member,* Nov. 2024 - Present
- Placed 5th in Microbe Mission, the school's highest placement

Best Buddies, Miss Porters School, *Co-Head and Found,* Sep. 2024 - Present
- Launched the school's first chapter to foster friendships and promote inclusivity for individuals with intellectual and developmental disabilities

Head of School Committee, Miss Porters School, *Member,* Sep. 2024 - Present
- Planned coding mentorship initiatives to inspire more than 30 middle school girls in STEM

Hypatia (Science Newspaper), Miss Porters School, *Staff Writer,* Sep. 2024 - Present
- Published [articles](#) in all editions of the newspaper, promoting scientific news awareness on campus

2Worlds Affinity (Multicultural Club), Miss Porters School, *Member,* Sep. 2023 - Present
- Organized over 10 cultural events promoting inclusivity and dialogue around different cultures across our school campus

Varsity Equestrian, Miss Porters School, *Co-Captain,* Sep. 2024 - Present
- Qualified for IEA Varsity Intermediate 2' Under Saddle this year

SKILLS & INTERESTS

Skills: Grant Writing, Creative Writing, Research, Data Entry, R Programming, Python Programming, Social Media (Instagram)
Interests: Bioengineering, Biotechnology, Computational Biology, Equestrian, Running