

# Kaia Ortiz

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## SUMMARY

Dynamic PhD candidate specializing in machine learning with a strong foundation in computational biology. Emphasizes hands-on experience in executing experiments that influence drug development, coupled with substantial contributions to research publications in prestigious conferences. Adept at using Python and PyTorch for large-scale data analysis. Proven ability to tackle complex problems autonomously while maintaining clarity in communicating findings to diverse audiences. Eager to contribute innovative solutions within a collaborative research setting focused on advancing therapeutic methodologies.

## EDUCATION

**PhD in Machine Learning** 2027  
Brooklyn University   GPA: 4.0 Brooklyn, NY  
*Coursework: Algorithms, Statistical Methods in ML, Computational Biology, Data Modeling Techniques*

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java
- **Machine Learning Frameworks:** PyTorch, TensorFlow, Scikit-learn
- **Development Tools:** Git, Docker, Jupyter Notebooks
- **Cloud Platforms:** AWS, Google Cloud, Azure
- **Data Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Statistical Software:** SAS, SPSS, STATA
- **Methodologies:** Agile, Scrum, DevOps
- **Database Systems:** MySQL, PostgreSQL, MongoDB
- **Experimentation Techniques:** A/B Testing, Simulation, Statistical Experimentation
- **Open Source Projects:** Contribution to GitHub repos, Collaborative coding

## SKILLS

- Python
- Data Analysis
- Molecular Data Interpretation
- Team Collaboration
- PyTorch
- Computational Biology
- Data Visualization
- Public Speaking
- TensorFlow
- Research Methodologies
- Deep Learning Techniques
- Project Management
- Machine Learning
- Statistical Analysis
- Experimental Design

## EXPERIENCE

**Research Intern** January 2025 - Present  
University Research Lab Brooklyn, NY

Engaged in an environmental-focused machine learning project that leverages molecular data insights for innovative drug discovery. Responsibilities encompass independent research oversight, utilitarian experimentation, drafting analytic reports, and collaboration with senior faculty members.

- Led a research project implementing ML methods on molecular data, accelerating drug development timelines.
- Engineered PyTorch models for large datasets, improving comprehension of molecular relationships in biological systems.
- Conveyed research insights through presentations, enhancing visibility of research outcomes in academic forums.
- Fostered partnerships with students and faculty, reinforcing experimental frameworks in collective projects.
- Streamlined data processing workflows, integrating open-source tools to boost efficiency for collective analysis.
- Evaluated experimental data thoroughly, informing future research strategies and potential scholarly publications.

**Machine Learning Developer** September 2024 - December 2024  
Capstone Project New York, NY

Managed the design and implementation of a predictive model aimed at understanding protein interactions using machine learning techniques. Collaborated closely with a dedicated team, showcasing innovative approaches at the university's symposium.

- Developed a predictive model utilizing TensorFlow for intricate biological data analyses, yielding significant accuracy improvements.
- Conducted extensive data preprocessing, improving data quality and subsequently enriching model performance.
- Worked within a team to present ground-breaking findings, generating notable recognition from faculty and peers.
- Documented comprehensive methodologies which laid the groundwork for subsequent peer research initiatives.
- Provided meaningful feedback for improvement on peers' coding practices, nurturing skills development within the group.

- Attended workshops dedicated solely to advancing programming proficiencies and analytical visualization techniques.

## LEADERSHIP & AWARDS

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- Dean's List, Brooklyn University - 2024, 2025
- Best Research Paper Award, University Research Symposium - 2025

## CERTIFICATIONS

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- Machine Learning Specialization 📅 2026
- Data Science Professional Certificate 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, AI and Data Science Club, Brooklyn University - 2023 – Present
- Organizer, Annual Coding Competition, Brooklyn University - 2025

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST