

AUDREY DILLON

COMPUTATIONAL BIOLOGIST

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STRENGTHS



Analytical Expertise

Utilized advanced analytical techniques in oncology studies, enhancing insight generation and understanding of disease pathways.



Collaboration Skills

Regularly partnered with cross-functional teams, leading to improved integration of data analysis in broader research initiatives.



Process Improvement

Streamlined documentation processes which increased overall data handling efficacy across projects, facilitating smoother operations.



Technical Communication

Crafted clear presentations for scientific findings, ensuring intricate results were accessible to varied audiences.



Mentorship

Guided junior researchers in data analysis best practices, building a supportive team environment focused on growth.

SKILLS

R Python Shell Scripting

Multivariate Statistical Analysis

Predictive Modeling

Bioinformatics Pipelines Git

High-Performance Computing

Data Visualization Cancer Biology

SUMMARY

Dedicated Computational Biologist with over 6 years of experience specializing in large-scale data analysis and multi-omics datasets. Proven expertise in statistical modeling, machine learning, and bioinformatics tailored to cancer biology, particularly breast cancer. Holds a PhD in Computational Biology and is proficient in R, Python, and shell scripting, with a strong commitment to delivering high-quality results and insights. Excellent communicator and collaborator with a passion for advancing cancer research through innovative analytical approaches. Eager to contribute to cutting-edge research at HealthTech Innovations and propel its clinical objectives.

EXPERIENCE

Computational Biologist

Data Analysis Solutions 📅 March 2020 - Present 📍 Los Angeles, CA

Lead team efforts in analyzing large-scale RNA and WES datasets, enabling breakthroughs in cancer research. This role emphasizes collaboration across scientific disciplines and standardization of workflows to ensure efficiency and accuracy.

- Led the analysis of large-scale RNA and WES datasets to provide actionable insights for ongoing cancer research projects.
- Developed and implemented advanced multivariate statistical models to enhance understanding of disease mechanisms.
- Collaborated with cross-functional teams to interpret complex data and present findings in a clear, concise manner.
- Standardized analytical workflows, improving efficiency in data processing and documentation practices.
- Conducted training sessions for junior team members on best practices in computational biology and data analysis.
- Authored several research papers based on findings that contributed to advancements in clinical oncology.

Research Scientist

Bioinformatics Corp 📅 June 2017 - February 2020 📍 San Francisco, CA

Played a pivotal role in harnessing clinical omics data through predictive analyses, collaborating closely with clinical teams to fulfill research goals. Presented findings nationally, fostering organization visibility.

- Analyzed clinical omics data utilizing predictive and prognostic methodologies to support hypothesis-driven research.
- Collaborated with oncology teams to interpret results and deliver insights that aligned with clinical objectives.
- Automated data processing pipelines using R and Python, significantly reducing analysis time.
- Maintained version control and documentation of all coding and analytical processes using Git.
- Engaged in continuous learning and development to stay updated on advancements in computational biology.
- Presented findings at national conferences, enhancing the visibility of the organization's research initiatives.

Data Scientist

Innovative BioSolutions 📅 January 2016 - May 2017 📍 San Jose, CA

Supported complex data analyses with an emphasis on novel methods and software, contributing significantly in high-performance computing environments focused on cancer research.

LANGUAGES

English	Native
Spanish	Intermediate

MY CAREER



- Computational Biologist at Data Analysis Solutions (6.4 Years)
- Research Scientist at Bioinformatics Corp (2.7 Years)
- Data Scientist at Innovative BioSolutions (1.3 Years)

- Supported large-scale data analysis projects with a focus on cancer research, utilizing high-performance computing environments.
- Developed scripts for data cleaning and preprocessing, ensuring data integrity and quality for subsequent analyses.
- Participated in team meetings to discuss project objectives, outcomes, and next steps, contributing to collaborative decision-making.
- Investigated novel analytical techniques to enhance data interpretation and visualization capabilities.
- Documented all analytical processes for compliance and reproducibility in research studies.
- Fostered a collaborative environment by mentoring interns and new hires in data analysis techniques.

LEADERSHIP & AWARDS

- Certified Bioinformatics Analyst, 2025
- R Programming for Data Science Certification, 2025

EDUCATION

PhD in Computational Biology

University of California, San Diego 🎓 GPA: 3.9 📅 2016 📍 San Diego, CA

Coursework: Computational Genomics, Machine Learning, Statistical Analysis, Data Visualization

CERTIFICATIONS

- Certified Bioinformatics Analyst 📅 2025
- R Programming for Data Science Certification 📅 2025

TECHNICAL SKILLS

- **Statistical Analysis Tools:** R, Python
- **Scripting Languages:** Shell Scripting
- **Workflow Management:** Git
- **Data Processing Techniques:** Pipelines, Automation Tools, High-Performance Computing
- **Analysis Methodologies:** Multivariate Statistics, Predictive Modeling
- **Biological Databases:** Omics Data Repositories, Clinical Records
- **Visualization Frameworks:** ggplot2, matplotlib, Seaborn
- **Project Coordination Tools:** Trello, Asana, JIRA
- **Machine Learning Platforms:** scikit-learn, TensorFlow, Keras
- **Documentation Standards:** Markdown, LaTeX

PROFESSIONAL AFFILIATIONS

- Member of the American Society for Biochemistry and Molecular Biology
- Contributor to local educational outreach programs related to science and technology

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST