



# Savannah Hutchinson

## Bioinformatics Scientist

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### STRENGTHS

- 👥 **Collaboration**  
Unified cross-discipline perspectives to elevate research outputs significantly during genomic projects.
- 🔄 **Adaptability**  
Explored evolving technologies in bioinformatics, reshaping approaches for enhanced research outcomes.
- 📊 **Data Interpretation**  
Processed intricate genomic datasets, transforming raw data into actionable insights for publication-ready findings.
- 📈 **Analytical Skills**  
Diligent in statistical evaluations, contributing profound insights enabling other researchers' work direction.
- 💬 **Communication**  
Communicated complex findings clearly to diverse audiences, ensuring varied stakeholder understanding and engagement.

### SKILLS

- Bioinformatics
- Genomic Data Analysis Python R
- Single-Cell RNA-seq
- Whole-Genome Sequencing
- Data Integration
- Workflow Development Linux/Unix
- Statistical Analysis
- Haplotype Analysis

### SUMMARY

Analytical Bioinformatics Scientist with a Ph.D. in Computational Biology and over 4 years of experience in genomic data analysis and computational workflow development. Proven ability to analyze high-throughput sequencing datasets and contribute to multi-omics studies. Skilled in Python and R programming within Linux environments. Strong collaborator, bridging gaps between computational analyses and clinical applications. Committed to advancing genomic research through innovative solutions and data integration.

### EXPERIENCE

#### Bioinformatics Scientist

Genomic Insights Inc. 📅 June 2025 - Present 📍 Ann Arbor, MI

Oversaw large-scale whole-genome sequencing analyses and developed bioinformatics workflows driving impactful results. Responsible for cross-functional collaboration with teams for data integration.

- Led comprehensive analysis of large-scale whole-genome sequencing datasets, assuring quality throughout the evaluation.
- Worked effectively with multidisciplinary teams, integrating genomic findings with clinical and epidemiological intelligence, which enhanced research outputs.
- Created and improved bioinformatics pipelines responsible for short-read and long-read analysis, increasing overall examination efficiency.
- Executed differential expression and trajectory studies on single-cell RNA-seq datasets, contributing meaningful content to prominent scientific publications.
- Introduced reproducible computational strategies via Nextflow, bridging gaps in data management practices while enhancing workflow precision.
- Presented significant findings at various scientific venues, heightening visibility for ongoing genomic research endeavors.

#### Computational Biologist

Precision Genomics Lab 📅 January 2024 - May 2025 📍 Grand Rapids, MI

Focused on analyzing high-throughput sequencing data while developing analytical workflows that fostered project completion efficiency.

- Analyzed extensive high-throughput sequencing datasets emphasizing variant discovery and structural variation in genomic investigations.
- Built analytical frameworks that trimmed down processing times, promoting faster report generation.
- Collaborated closely with external research institutions leading to co-authored works circulated in respected journals.
- Set higher standards for reproducibility within analyses by defining rigorous best practices evident in documentation.
- Facilitated educational workshops aimed at young scientists, ensuring knowledge transmission in bioinformatics methods.
- Drafted future grant requests and project outlines distinctly conveying research ambitions and methodologies.

#### Research Assistant

Bioinformatics Research Center 📅 August 2022 - December 2023 📍 Lansing, MI

Supported genomic examinations by performing essential data cleanup and fostering greater access to visualization tools.

- Provided crucial support to genomic initiatives through data normalization procedures addressing sequencing abnormalities.
- Assisted in developing software solutions that enhanced data visualization capabilities, making analyses more accessible.

Differential Expression

Structural Variation

Emerging Technologies

Data Processing

Reproducibility

## LANGUAGES

English

Native

Spanish

Proficient

## MY CAREER



● Bioinformatics Scientist at Genomic Insights Inc. (1.2 Years)

● Computational Biologist at Precision Genomics Lab (1.3 Years)

● Research Assistant at Bioinformatics Research Center (1.3 Years)

- Engaged collaboratively, offering bioinformatics insights aimed at augmenting experimental designs informed by data.
- Conducted thorough literature explorations, maintaining currency with trends within genomic evaluations.
- Authored process documentation guiding analytical protocols adhering to established research regulations.
- Actively participated in team meetings, sharing updates and insights to maintain a consistent push towards goals.

## LEADERSHIP & AWARDS

- Dean's List - University of Michigan, 2024
- Best Paper Award - Genomic Research Conference, 2025

## EDUCATION

### Ph.D. in Computational Biology

University of Michigan 🎓 GPA: 4.0 📅 2026 📍 Ann Arbor, MI

**Coursework:** Genomics, Biostatistics, Data Analysis, Bioinformatics

## CERTIFICATIONS

- Certified Bioinformatics Analyst 📅 2025
- Python Programming Certification 📅 2025

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, JavaScript
- **Data Analysis Tools:** RStudio, Pandas, NumPy
- **Version Control Systems:** Git, GitHub, SVN
- **Linux/Unix Systems:** Ubuntu, CentOS, Red Hat
- **Bioinformatics Applications:** Galaxy, GATK, BEDTools
- **Cloud Computing Platforms:** AWS, Google Cloud, Azure
- **Workflow Management Tools:** Nextflow, Snakemake, WDL
- **Statistical Software:** SAS, SPSS, R Stats
- **Visualization Tools:** Tableau, Matplotlib, ggplot
- **Training & Mentorship:** Workshop Facilitation, Peer Tutoring, Team Collaboration

## PROFESSIONAL AFFILIATIONS

- American Society of Human Genetics (ASHG)
- International Society for Computational Biology (ISCB)

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST