

# ELLIOT MARTIN

Bioinformatician

**Bioinformatician:** SOPHiA Genetics

**Field:** Bioinformatics, Software Development, Data Science

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github.com/elliottmartin92

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## Summary

- Developed 15+ custom NGS pipelines for renowned hospitals and testing labs
- Aided PI to achieve over \$2,000,000 in NIH grant funding by establishing bioinformatics pipelines to facilitate the research of dozens of team-members
- Spearheaded a productive multi-year research project, managing and effectively communicating with several team-members from different disciplines

## Education

**Ph.D. in Biology** - Albany, NY

Aug. 2015 - Mar. 2022

- Thesis: Post-transcriptional control underlies germline stem cell differentiation and entry into meiosis in the female *Drosophila*.

**Bachelor of Science, Biochemistry** - Geneseo, NY

Aug. 2011 - May. 2015

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## Experience

**Bioinformatician** - SOPHiA Genetics

Apr. 2022 - Present

- Design, release, evaluate, and document targeted gene panels and analysis pipelines to effectively identify clinically relevant genomic alterations
- Analyze and summarize various types of NGS data to clients (e.g., SNPs/INDELs, CNV, RNA fusion, and PGx alleles).
- Communicate pipeline performance results to external clinical partners

**Graduate Assistant** - University of Albany

Aug. 2019 - Mar. 2022

- Established bioinformatics pipelines and scripts that are utilized by non-programmers to allow dozens of team-members to rapidly process data
- Developed interactive browser-based tool to increase the accessibility of bulk RNA-seq and single-cell seq data
- Discovered RNA regulatory mechanisms

**QC Virology Bioinformatics Intern** - Regeneron Pharmaceuticals Inc. - Remote

Jun. - Aug. 2020

- Established bioinformatics pipelines for Nanopore direct RNA-seq for differential gene expression and differential iso-form usage
- Developed an R Shiny application for non-bioinformaticians to process their data

**Teaching Assistant** - University of Albany

Aug. 2015 - May. 2019

- Taught basic introductory lab skills to undergraduates and distilled principles of genetics and fostered discussions on genetics and ethics

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## Skills

- Programming languages: Adept in R, proficient with Bash, experience in C and Python
- Proficient with Data analysis and visualization, Linux, HPCC/Azure, Docker, Rmarkdown/Quarto,  $\text{\LaTeX}$ , version control (Git), Jira, and Gitlab
- Experienced in cell culture and related techniques such as RNAi, transfection, and viral work
- Skilled with molecular techniques including western blotting, qPCR, RNA work, and cloning