

# Chance Sharp

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## SUMMARY

Early career biological sciences graduate with supervised research experience in computational biomedical analysis, **multimodal medical imaging**, **laboratory operations**, and translational cancer research. Academic work used Python, CT and MRI derived data, structured clinical variables, **machine learning** workflows, research databases, and introductory genomics concepts. Laboratory training includes experimental design, sample processing, equipment records, safety procedures, sterilization, inventory support, and complete project documentation. Research activities included dataset curation, algorithm comparison, reproducible experiment tracking, result interpretation, scientific presentations, and faculty review. Collaborative work with research supervisors and student teams built practical judgment around data quality, model limits, clinical context, and careful recordkeeping. Prepared to contribute thoughtful computational and laboratory support under **Principal Investigator** guidance, with clear communication and respect for research participants, samples, and scientific evidence.

## EDUCATION

**Bachelor's Degree in Biological Sciences**  
California State University, Northridge GPA: 0  
*Coursework: Cancer biology, computational biology, medical imaging, genomics, laboratory methods*

2026  
Northridge, California

## TECHNICAL SKILLS

- **Programming and Analysis:** Python, Jupyter Notebooks, statistical analysis
- **Machine Learning:** scikit learn, cross validation, classification models
- **Medical Imaging:** CT, MRI, imaging feature extraction
- **Clinical Data:** EHR data, clinical variables, data dictionaries
- **Genomics Research:** genomics concepts, biological datasets, feature review
- **Research Databases:** clinical research databases, identifier validation, data provenance
- **Experimental Methods:** experimental design, protocol development, result interpretation
- **Research Documentation:** experiment logs, reproducible workflows, software records
- **Laboratory Operations:** sample processing, sample logging, inventory tracking
- **Laboratory Equipment:** equipment checks, equipment records, specialized machinery
- **Safety and Compliance:** laboratory safety, PPE, waste disposal
- **Scientific Communication:** research presentations, scientific publications, poster development

## SKILLS

- |                   |                           |                          |                      |
|-------------------|---------------------------|--------------------------|----------------------|
| • Cancer research | • EHR data                | • Machine learning       | • Clinical databases |
| • Medical imaging | • Genomics                | • Python                 | • Sample processing  |
| • CT              | • Data curation           | • Experimental design    | • Laboratory safety  |
| • MRI             | • Artificial intelligence | • Research documentation |                      |

## EXPERIENCE

**Undergraduate Research Assistant, Translational Cancer Data Science**  
University Research Lab

September 2025 - May 2026  
Pasadena, California

Supported supervised translational cancer research through **computational analysis** of imaging and clinical data. Maintained research records, shared computing resources, database structures, and reproducible workflows while reviewing findings with faculty investigators.

- Curated deidentified oncology imaging and clinical data, documenting inclusion rules and missing data decisions.
- Built Python notebooks for **CT** and **MRI** features, comparing machine learning models through cross validation.
- Maintained **research databases** linking imaging identifiers with approved clinical variables through validation checks.
- Recorded software versions, preprocessing choices, model settings, and results for reproducible faculty review.
- Presented interim findings, model limits, data quality concerns, and proposed next experiments to research peers.
- Organized shared computing folders, analysis scripts, documentation, and supervised data handling procedures.

**Student Researcher, Multimodal Cancer Imaging**  
Capstone Project

January 2026 - May 2026  
Pasadena, California

Completed a faculty supervised study assessing multimodal cancer imaging methods with structured clinical variables. Created reproducible analysis materials, reviewed biomedical literature, and communicated results through written and oral **presentations**.

- Designed a supervised study combining CT derived features with structured clinical variables for classification.

- Implemented preprocessing and **machine learning** pipelines with separated training and validation data.
- Compared single modality and multimodal inputs, tracking model settings across analysis runs.
- Reviewed classification errors and sample limitations before summarizing findings for faculty assessment.
- Created data dictionaries documenting feature definitions, preprocessing steps, dependencies, and analysis records.
- Presented biomedical imaging methods and findings through a poster and oral presentation.

**Biological Sciences Laboratory Researcher**

September 2024 - December 2025

Student Lab

*Pasadena, California*

Performed supervised laboratory research activities supporting **biological sciences** instruction and sample based workflows. Maintained notebooks, equipment records, supply stocks, workspaces, and safety practices with consistent attention to traceable documentation.

- Performed routine biological procedures, recording observations, reagents, identifiers, and results in notebooks.
- Processed and logged instructional samples from receipt through analysis and storage using traceable records.
- Operated common **laboratory equipment** under supervision, completing checks and maintaining equipment logs.
- Prepared work areas and monitored general **laboratory materials**, submitting supply needs to coordinators.
- Cleaned and sterilized reusable glassware according to established **laboratory procedures** and schedules.
- Followed personal protective equipment, sample handling, waste disposal, and incident reporting procedures.

**PROJECTS**

**Multimodal Cancer Imaging Analysis** 📅 2026

Built a reproducible instructional study combining CT derived features with clinical variables. Compared modeling approaches, reviewed errors, and presented practical limits of dataset quality and sample size.

**Biomedical Data Research Workflow** 📅 2026

Created a documented Python workflow for imaging data curation, feature extraction, model comparison, and research reporting. Organized code and records for faculty review and repeatable analysis.

**LEADERSHIP & AWARDS**

- Undergraduate Research Poster Recognition, 2026
- Biological Sciences Capstone Distinction, 2026
- Dean's List, 2025

**CERTIFICATIONS**

- CITI Program, Human Subjects Research, Biomedical 📅 2026
- Coursera, Machine Learning for Biomedical Data Foundations 📅 2026

**PROFESSIONAL AFFILIATIONS**

- Peer Mentor, Undergraduate Research Preparation Program, 2025 to 2026
- Member, Campus Biomedical Research Journal Club, 2025 to 2026
- Volunteer Presenter, Student Research Showcase, 2026

**LANGUAGES**

- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

AVAILABLE ON REQUEST