

Chance Sharp

Research Associate I, Translational Cancer Data Science

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📍 Pasadena, CA 91101

STRENGTHS

- ♥️ **Research documentation**
Detailed experiment logs made software choices, data decisions, and results easier for faculty reviewers to follow.
- 📦 **Data curation**
Careful identifier checks protected dataset quality, and peers trusted organized records during analysis reviews.
- 🗣️ **Scientific communication**
Presentations explained model limits and data concerns plainly, helping audiences focus on evidence rather than hype.
- 🧪 **Laboratory practice**
Sample logs, equipment records, and sterilization routines kept supervised lab work orderly and traceable.
- 👥 **Collaborative learning**
Faculty feedback shaped each next experiment, and mentoring helped newer students approach research with confidence.

SKILLS

Cancer research Medical imaging

CT MRI EHR data Genomics

Data curation Artificial intelligence

Machine learning Python

Experimental design

Research documentation

Clinical databases

Sample processing

Laboratory safety

LANGUAGES

English Native

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 📅 2026 📍 Northridge, California

Coursework: *Cancer biology, computational biology, medical imaging, genomics, laboratory methods*

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

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.

MY CAREER



- Undergraduate Research Assistant, Translational Cancer Data Science at University Research Lab (8 Months)
- Student Researcher, Multimodal Cancer Imaging at Capstone Project (4 Months)
- Biological Sciences Laboratory Researcher at Student Lab (1.2 Years)

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

Student Lab 📅 September 2024 - December 2025 📍 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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST