

# Chelsea Doop

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**Graduate student in Biological Data Science with experience in clinical research, genomics, and statistical analysis. Currently serving as a Clinical Screening Coordinator, supporting clinical trial enrollment and data collection in compliance with regulatory standards. Skilled in R, JMP, and foundational Python, with a strong clinical background and a focus on translating biological data into meaningful insights.**

## Education

### **Master of Biological Data Science | Arizona State University | Tempe, Arizona**

Currently Enrolled | Expected May 2027

- Coursework: Statistics for Biological Data Science 1 & 2, Intro to Python Programming, Database Systems & Python
- Involvement: IDEAS Society at ASU Member

### **Bachelor of Science, Biological Sciences | Arizona State University | Tempe, Arizona**

August 2025

- Coursework: Undergraduate Research, Technical and Scientific Writing, Genetics, Evolution, Functional Genomics, Microbiology, Conservation of Biodiversity, Structure and Functions, Biostatistics, Organic Chemistry
- Involvement: IDEAS Society at ASU Member

### **Associate of Arts | Spokane Community College | Spokane, Washington**

December 2019

## Technical Skills

- Clinical Research and Systems:
  - GCP Certified
  - Informed Consent
  - Electronic Medical Records (EMR)
  - Electronic Data Collection (EDC)
  - Clinical Trial Management System(CTMS)
  - IATA (Cat A & B) Certified
  - Regulatory Compliance (FDA & HIPAA)
- Programming and Analysis:
  - R
  - JMP Statistical Analysis
  - Excel
  - Python (introductory)
- Bioinformatics/Genomics Tools:
  - IGV (coursework experience)
  - CCLE dataset familiarity
  - Foundational Unix/command line
- Laboratory:
  - Aseptic technique
  - DNA extraction
  - Cell passaging
  - Lab safety
- General:
  - Scientific & Technical writing
  - HPC familiarity (coursework)
  - CPR/BLS certified
- Microsoft Office
- Currently building github repository at <https://github.com/chelseadoop>

## Research Experience

### **GENOMICS UNDERGRADUATE RESEARCHER – WILSON & PLAISIER LAB**

**Arizona State University | September 2023 – December 2023 | Tempe, AZ**

- Analyzed gene expression to determine sex chromosomes present in cancer cell lines by utilizing the Cancer Cell Line Encyclopedia (CCLE) and R programming.
- Gained experience using command-line programming to visualize genomic data with applications like IGV.

### **UNDERGRADUATE INDEPENDENT RESEARCHER– HOLECHEK LAB**

**Arizona State University | September 2023 – October 2024 | Tempe, AZ**

- Utilized All of Us database to conduct statistical analysis to illustrate the correlation between sex hormone fluctuations and Hashimoto's Thyroiditis/Autoimmune Thyroiditis.
- Presented independent findings at BioSci Symposium -- October 2023

### **UNDERGRADUATE BIOLOGY RESEARCHER – LEI LAB**

#### **Arizona State University | January 2023 – May 2023 | Tempe, AZ**

- "The Effect of Temperature Change on the Oviposition Rate of the Queen Honeybee"
- Presented findings at 30th Annual SOLS Symposium -- April 2023.
- Received Honorable Mentions Award in Conservation and Ecology

## **Clinical Experience**

### **CLINICAL SCREENING COORDINATOR | CENTRICITY RESEARCH | RINCON, GA**

#### **March 2026 – PRESENT**

- Conduct protocol-driven participant screening and eligibility assessments; document outcomes in EDC/CTMS systems
- Obtain informed consent and educate participants on study procedures, risks, and benefits
- Collect, process, and manage biological specimens (including blood draws) in compliance with study protocols and chain-of-custody standards
- Maintain accurate regulatory documentation, equipment logs, and temperature records to ensure audit readiness and GCP/HIPAA/FDA compliance
- Track and reconcile screening and enrollment data to ensure accuracy, completeness, and protocol adherence
- Collaborate with investigators and cross-functional teams to support recruitment goals and study timelines

### **CERTIFIED NURSING ASSISTANT | SELECT SPECIALTY HOSPITAL | SAVANNAH, GA**

#### **May 2021 – March 2026**

- Provide long-term acute care for ventilated and medically complex patients.
- Maintain patient safety by practicing sterilization and equipment decontamination.
- Preceptor for new staff and contributor to improved orientation/training processes.

### **HOME HEALTH CNA | ADDUS HOMECARE | SPOKANE VALLEY, WA**

#### **July 2016 – February 2021**

- Supported clients with hygiene, mobility, and daily living tasks.
- Provided patient transport to appointments and essential services.
- Assisted with medication administration and reminders, and maintained safe home environments.

### **CNA/RESTORATIVE AIDE | HARBOURWOOD NURSING AND REHAB | CLEARWATER, FL**

#### **March 2010 – June 2014**

- Assisted patients with ADLs; supported restorative exercise programs; documented patient progress.

### **NURSING ASSISTANT/ RESTORATIVE AIDE | SENIOR HEALTHCARE | CLEARWATER, FL**

#### **November 2008 – July 2009**

### **REHABILITATION TECHNICIAN | PEOPLEFIRST REHABILITATION | CLEARWATER, FL**

#### **October 2007 – May 2009**

- Maintained therapy equipment, prepared documentation, and assisted PTs with therapeutic exercise instructions.

## **Additional Experience**

### **CUSTOMER SERVICE AGENT | ALORICA | SPOKANE VALLEY, WA**

#### **October 2015 – June 2016**

- Handled calls related to employer-funded financial accounts; resolved discrepancies and escalated complex issues.

### **MULTI-DEPARTMENT ASSOCIATE | KOHL'S CORPORATION | SPOKANE VALLEY, WA**

#### **July 2014 – November 2015**

- Managed inventory, cash handling, and customer service while maintaining store organization and cleanliness.