

Christopher L. Benson II

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EDUCATION

Case Western Reserve University | Cleveland, OH August 2022 – Present
Department of Population and Quantitative Health Sciences
PhD in Epidemiology and Biostatistics

The Ohio State University | Columbus, OH August 2019 – December 2021
College of Nursing
Master of Clinical Research – Clinical Research Management
Capstone Project: *An Integrative Review on the Challenges of Implementing Clinical Research Informatics in Biorepositories*

The University of Georgia | Athens, GA August 2011 – May 2016
Franklin College of Arts and Sciences
Bachelor of Science, Plant Biology – Plant Bioinformatics and Biotechnology

RESEARCH EXPERIENCE

Case Western Reserve University | Cleveland, OH August 2022 – Present
Department of Population and Quantitative Health Sciences
Graduate Research Assistant

Cleveland Clinic Foundation | Cleveland, OH January 2022 – August 2022
Genomic Medicine Institute (GMI) – Dr. Charis Eng
Genomic Medicine Biorepository/Clinical Research Team
Data Analyst

- Oversee and manage the Biological Specimen Inventory (BSI) and REDCap databases
- Perform routine quality control and assurance checks for data integrity and missing data
- Coordinate and train new users on how to utilize BSI and REDCap for daily research activities
- Import new data for clinical and research staff who use BSI and/or REDCap
- Generate data reports involving patient data and biospecimens for clinical and research staff presentations
- Develop and revise standard operating procedures related to BSI and REDCap

Research Database Coordinator October 2019 – January 2022

- Oversaw and managed the Biological Specimen Inventory (BSI) and REDCap databases
- Performed routine quality control and assurance checks for data integrity and missing data
- Coordinated and train new users on how to utilize BSI and REDCap for daily research activities
- Imported new data for clinical and research staff who use BSI and/or REDCap
- Generated data reports involving patient data and biospecimens for clinical and research staff presentations
- Developed and revise standard operating procedures related to BSI and REDCap

Research Technologist April 2019 – October 2019

- Oversaw and managed the Biological Specimen Inventory (BSI) Database
- Performed routine quality control and assurance checks on biospecimen data in the biorepository
- Generated reports on the subject data and biospecimens stored in the biorepository
- Consulted with PIs on setting up and maintaining subject data within the database
- Processed biospecimens that were received in the laboratory (blood and other bodily fluids)

Research Technician July 2017 – April 2019

- Processed biospecimens that were received in the laboratory (blood and other bodily fluids)
- Monitored laboratory equipment to prevent loss of all stored biomaterials
- Used laboratory information management system database (LIMS) to catalogue and properly store all biomaterials, data entry and management

United States Department of Agriculture – Agricultural Research Services (USDA-ARS) | Athens, GA

Toxicology and Mycotoxin Research Unit (TMRU) - Dr. Scott E. Gold, PhD

Biological Sciences Research Technician (Internship)

May 2015 – December 2015

- Studied plant pathogen *Fusarium verticillioides* and its lactamase producing genes
- Analyzed Fumonisin (mycotoxin) concentrations extracted from infected maize samples to develop a method that estimates the mycotoxin concentration levels of a fungus based on its size
- Used a One Step Construction of Agrobacterium-Recombination-ready-plasmids (OSCAR) protocol to delete and replace lactamase producing genes with a Hygromycin B resistance gene
- Trained high school and college students to use lab equipment and follow laboratory protocols

United States Department of Agriculture – Agricultural Research Services (USDA-ARS) | Athens, GA

Poultry Microbiological Safety and Processing Research Unit (PMSRU) - Dr. Hung Yueh Yeh, PhD

Biological Sciences Research Technician (Internship)

May 2014 – July 2014

- Assisted in developing and testing a vaccine to prevent *Campylobacter jejuni* in Broiler Chickens
- Performed in vitro and in vivo tests to evaluate the vaccine's effectiveness by using organs and fecal samples collected from the chickens
- Performed animal husbandry duties to ensure the safety and care of the broiler chickens used in the experiment
- Monitored bacterial infections in experimental and control groups multiple times a week

PUBLICATIONS

Yeh, H.-Y., Telli, A. E., Jagne, J. F., Benson II, C. L., Hiett, K. L., & Line, J. E. (December 2016). Epitope Mapping of *Campylobacter jejuni* Flagellar Capping Protein (FlhD) by Chicken (*Gallus gallus domesticus*) Sera. *Comparative Immunology, Microbiology, and Infectious Diseases*, Vol. 49, 76-81. <https://doi.org/10.1016/j.cimid.2016.10.003>

CONFERENCE PRESENTATIONS

Emerging Researchers National Conference (ERN) (March 2014) | Washington D.C.

Immunization of Broiler Chickens with Recombinant *Campylobacter jejuni*

Annual Biomedical Research Conference for Minority Students (November 2014) | San Antonio, TX

Immunization of Broiler Chickens with Recombinant *Campylobacter jejuni*

Ninth Annual Peach State LSAMP Research Symposium (September 2014) | Kennesaw, GA

Second Place Oral Presentation

Immunization of Broiler Chickens with Recombinant *Campylobacter jejuni*

Annual Biomedical Research Conference for Minority Students (November 2013) | Nashville, TN

Activin-A/Nodal Signaling in Mouse Embryonic Stem Cell

Eighth Annual Peach State LSAMP Research Symposium (October 2013) | Atlanta, GA

Activin-A/Nodal Signaling in Mouse Embryonic Stem Cell

Emerging Researchers National Conference (ERN) (March 2013) | Washington D.C.

First Place Poster Presentation

Reverse Genetic Characterization of Three Genes found in a Yeast-2-Hybrid

Seventh Annual Peach State LSAMP Research Symposium (October 2012) | Athens, GA

First Place Poster Presentation

Reverse Genetic Characterization of Three Genes found in a Yeast-2-Hybrid