

# KYLIE WILLIAMS

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940 Stanton L Young Blvd, BMSB 810 Bay 6

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## Career Objective

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Experienced Research Assistant with a strong background in single-cell (sc) transcriptomic [RNA sequencing (seq)] studies in a variety of experimental models including mouse and human tissues using 10X Genomics technology. Experienced in scRNAseq data analysis using 10X Genomics Loupe Browser. Extensively trained and experienced in the generation and managing of large mouse colonies for research studies, in the design and generation of complex genetically modified mice through genetic crosses, and in conducting studies to measure cognitive and non-cognitive components of behavior in rodents (rats and mice). Strong competencies in postmortem tissue collection and processing in rodents with a specific emphasis on the brain. Has a strong focus on expanding abilities to analyze, visualize and interpret data, discuss findings with principal investigators, and prepare reports. Proficient in basic biochemical and molecular biology approaches, and sterile laboratory techniques including cell culture, as well as in experimental design, data collection, analysis, visualization, and interpretation. Possesses strong math skills and a deep understanding of quality standards and assessments. Works independently and has proven leadership skills including the supervision of technical research personnel. Can organize and implement the incorporation of new technology in a research environment from concept to data generation, from the initial acquisition of knowledge through the training of other personnel. Demonstrates excellent communication and problem-solving skills.

## Experience

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### STAFF RESEARCH ASSISTANT

Nov 2021 - Present

DEPARTMENT OF BIOCHEMISTRY & PHYSIOLOGY

CENTER FOR GEROSCIENCE AND HEALTHY BRAIN AGING

NIA P20 CELLULAR AND MOLECULAR GEROSCIENCE CENTER OF BIOMEDICAL RESEARCH EXCELLENCE

MOLECULAR AND CELLULAR IMAGING CORE – KEY PERSONNEL

UNIVERSITY OF OKLAHOMA HEALTH SCIENCE CENTER

- Perform 10X Genomics single-cell transcriptomic (scRNAseq) assays and initial data analysis
- Management of large mouse colony for research studies
- Perform intracranial stereotaxic injections
- Perform laser Doppler flowmetry for studies of neurovascular coupling
- Perform an array of animal behavior studies
- Collects various forms of data pertaining to the research project or projects, which could include database information
- Interprets and analyzes data and discusses with the principal investigator
- Prepares reports concerning the project's progress
- Keeps detailed logs of all research-related activities
- Manager of the Galvan lab
- Supervisor of the animal technician that maintains the mouse colony

## **VETERINARY ASSISTANT**

**Jan 2021 - Nov 2021**

### **REDBUD ANIMAL DERMATOLOGY**

- Animal restraint
- Triage of incoming patients
- Collection and analysis of lab samples
- Management and nursing care of medical and hospitalized cases with varying degrees of stability
- Administration of medications
- Surgical preparation and assistance, and anesthetic management

## **AQUARIST**

**Jan 2018 - Jan 2020**

### **MARITIME AQUARIUM**

- Administer treatment plans prescribed by our veterinarian from a Poison Dart Frog to a Sand Tiger Shark
- Food preparation and feedings for the amphibians, fish and mammals and other species
- Animal husbandry and training of Asian Water Monitor, Dwarf Caiman, Snapping turtle and many other reptiles and amphibians
- Maintenance on the aquariums tanks, the water chemistry and cleanings
- Exhibit design and maintenance of all plants and support systems
- Built, Designed and maintained an Aquaponics system for food production for animals

## **Education**

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### **MASTERS OF BUSINESS ADMINISTRATION**

December 2023 | DELAWARE VALLEY UNIVERSITY

### **BACHELORS OF SCIENCE IN ZOO SCIENCE**

December 2017 | DELAWARE VALLEY UNIVERSITY

Magna Cum Laude

## **Skills**

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- Production of Single-Cell Suspension
- Sterile Laboratory Techniques
- Strong Math Skills
- Data Collection and Analysis
- Research Design
- Tissue Collection

# References

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## **William E. Sonntag, PhD**

George Lynn Cross Professor of Research  
Donald W Reynolds Professor of Aging Research  
Director, Center for Geroscience and Healthy Brain Aging  
Professor, Department of Biochemistry & Physiology  
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## **Veronica Galvan, PhD, FAAA**

Professor and Donald W. Reynolds Endowed Chair of Aging Research  
Director, Oklahoma Nathan Shock Center of Excellence in the Basic Biology of Aging  
Co-Director, Center for Geroscience and Healthy Brain Aging  
Department of Biochemistry & Physiology  
University of Oklahoma Health Sciences Center  
VA Research Career Scientist, US Department of Veterans Affairs  
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