Jazmine Dent

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EDUCATION

University of Georgia — **Athens, Georgia**
Neuroscience PhD — August 2024 - Present

Towson University — **Towson, Maryland**
Bachelor of Science in Biology — August 2020 - December 2023
Concentration in Cellular and Molecular Biology — GPA: 3.29/4.00

Temple University — **Philadelphia, Pennsylvania**
Bachelor of Science in Neuroscience — August 2019 - May 2020
GPA:3.04/4.00

RESEARCH EXPERIENCE

Graduate Research Assistant — **January 6,2025 – Present**
University of Georgia Neuroscience Doctoral Program
University of Georgia, Athens, Georgia
Advisor: Dr. Rachel Roberts-Galbraith

- Investigate the effects of acetylcholine on the neuromuscular connection during planarian regeneration
- Define and characterize motor and cholinergic neurons in planarians
- Technique: Hot Start PCR, *in situ* Hybridization, RNA interference, Cloning

Graduate Research Assistant — **October 24, 2024 – November 27, 2024**
University of Georgia Integrative Life Sciences Program
University of Georgia, Athens, Georgia
Advisor: Dr. Oshri Avraham

- Extraction of chicken embryos
- Fluorescent microscopy of chicken embryo spines to examine expression of GFP to view if electroporation was successful, and developing neural tube.
- Techniques: Mini-Prep, Midi-Prep, Plate Streaking, Fluorescent Microscopy

Graduate Research Assistant — **September 19, 2024 – October 2, 2024**
University of Georgia Integrative Life Sciences Program
University of Georgia, Athens, Georgia
Advisor: Dr. Erin Dolan

- Examine transcripts from professors on the first day to determine if instructors are being transparent about teaching choices on the first day of class. Specifically looking at the use of pedagogical language in CURE and NON-CURE courses to see how the differ.
- Analyze transcript recordings for pedagogical choice
- Techniques: Microsoft Excel

Graduate Research Assistant **August 12, 2024 – September 18, 2024**
University of Georgia Integrative Life Sciences Program
University of Georgia, Athens, Georgia
Advisor: Dr. Rachel Roberts-Galbraith

- Investigated the effects of glia cells on planarian regeneration.
- Amplified dsRNA using Hot Start PCR
- Knocked down genes of interest using RNA interference (RNAi)
- Performed Whole Mount in situ Hybridization to visualize glial markers in the central nervous system after regeneration
- Processed images using Adobe workshop
- Techniques: Hot stat PCR, *in situ* hybridization, Microscopy,

Undergraduate Research Assistant **August 2022 - December 2022**
Towson University Research Enhancement Program (TU REP)
Towson University, Towson, Maryland

- Investigated short-open reading frame ydcr_ydcs_0 in *Escherichia coli* for possible protein expression in Molecular Biology Course based Research Experience (CURE) Laboratory class
- Generated multiple bioinformatics test to select a highly conserved sORF.
- Inserted sORF of interest using NM400 transformation
- Used PCR amplification and plate screening to indicate successful transformation
- Ran Western Blot for indication of gene expression
- Techniques: BLAST, Streak Plate Screening, PCR Amplification, Western Blotting

Undergraduate Research Assistant **June 2022 - July 2022**
Neuroscience Undergraduate Research Program (NSURE)
University of Georgia, Athens, Georgia

- Investigated the effects of neurotransmitters on planarian regeneration to analyze the growth progress of planarian central nervous system
- Amplified dsRNA using Hot Start PCR
- Knocked down genes using RNA interference
- Performed Fluorescent *in situ* Hybridization to insert marker for analyzing brain regeneration
- Techniques: Hot Start PCR, and Fluorescent *in situ* Hybridization, RNA interference

Undergraduate Research Assistant **February 2022 - May 2022**
Towson University Research Enhancement Program (TU REP)
Towson University, Towson, Maryland

- Conduct research on Alzheimer's diagnoses and socioeconomic factors
- Collected data about age, income and education level from the All of Us Database
- Used R-studio with Jupyter coding language to compare, and analyze data
- Techniques: Coding with R-studio, Data Analysis of databases

Undergraduate Research Assistant **August 2020 - December 2020**
Towson University Research Enhancement Program (TU REP)
Towson University, Towson, Maryland

- Investigated the possibility of protein-protein interactions involving the small proteins yaiY, yiiS in *Escherichia coli*
    - Determine conservation of protein by identifying homologous
    - Identification of binding partners for function identification and genomic organization
- Investigated coxa to femur angle during attack if juvenile vs. adult Ghost Praying Mantis
    - Analyzed recordings of attack using ImageJ/FIJI
    - Conducted t-test using Microsoft Excel

PROGRAMS

Neuroscience Summer Undergraduate Research Program (NSURE)
May 2022 – July 2022
University of Georgia

Towson University Research Enhancement Program(TU REP)
August 2020 – December 2023
Towson University

ACADEMIC PRESENTATIONS/POSTERS

May 2022 | Poster presentation "Does socioeconomic factors have an effect on the likelihood of being diagnosed with Alzheimer's Disease?", Undergraduate research symposium, Towson, MD

July 2022 | Poster Presentation **"**Are neurotransmitters important for planarian brain regeneration?", NSURE symposium, Athens, GA.

December 2022 | Poster Presentation "Analysis of ydcR-ydcS_0 an E.coli Short Open Reading Frame.", Undergraduate research symposium, Towson, MD