

SOPHIA L. MADISON

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West Bloomfield, MI

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Talented young professional with skills and training in:
NEUROBIOLOGY AND BIOCHEMISTRY RESEARCH

Highly-accomplished, quick learner with an impressive **hands-on knowledge base** encompassing the entire spectrum of **neurobiological research**, with special expertise in Organic, Inorganic, Analytical, Solutions, Instrumental Analysis and Physical Chemistry. Regarded by peers and mentors as an overachiever who is **committed to excellence in this field**, as demonstrated by **outstanding academic achievement**. Demonstrate thorough and detailed research capabilities. *Experience and academic preparation include:*

- Molecular Theory
- Quantum Mechanical Modeling
- Mathematical Modeling
- Particle Location and Density
- DNA Analysis and Separation
- Reagent Preparations
- EDTA Titration Process
- Electron Neutron Diffraction
- Electrophoretic Techniques
- Thermodynamic Principles
- Ethology
- Blood Typing
- Diffusion Principles
- X-Ray Diffraction
- GCMS/MS

EDUCATION

Bachelor of Science in Biology and Biochemistry

Michigan State University, East Lansing MI ~ Graduated with the Highest Honors ~ 2006

RELEVANT EXPERIENCE & EMPLOYMENT

Scheduling Coordinator ~ Oakland Radiology Consultants, Oak Park MI ~ 5/2006 to present

Neuroscience Intern ~ Michigan State University, East Lansing MI ~ 8/2005 to 5/2006

Medication Care Manager ~ Sunrise Assisted Living, East Lansing MI ~ 2/2003 to 7/2006

- **Clinical Trials:** Administered a significant drug trial and established a dosage response curve for the identification of invertebrate behavior using neuromodulators.
- **Medication Management:** Completed state requirements training to confidently, legally and safely administer patient medication and effectively document their immediate reaction. Managed a staff of 10, ordered and controlled the administration of all narcotics.
- **Ethology:** Performed pet care behavioral science medical procedures, including the administration of both local and general anesthesia, catheters, iv and injectables. Confidently handle x-rays and assess behavior modifications due to hormones, neuroreceptors and neurotransmitters.
- **Quality Assurance and Statistical Analysis:** Delivered 3+ year in-depth reagent preparation and reaction writing capstone project culminating in and solidifying expertise in testing chemicals to determine molarity of any solution.
- **Spectroscopy:** Trained in Chemical Detection Methods including UV detection, chromatography and polarity, as well as finding unknown chemicals by running samples using search criteria.
- **Gamete Shedding/Invitro Fertilization:** Oversaw a developmental biology project devoted to the invitro fertilization of insects, rats and invertebrates, whereby deliberate injection led to gamete shedding, fertilization of eggs in petry, and ultimately the reintroduction of eggs into animals.

PRESENTATIONS & CONFERENCES

Presented Topic: "Octopomine vs. Serotonin as a Neuromodulator and Neurotransmitter"
Society for Neuroscience National Conference - 2005 and West Virginia Academy of Science - 2006

MEMBERSHIPS, CERTIFICATIONS & AFFILIATIONS

Society of Neuroscience ~ American Chemical Society for Analytical Inorganic and Organic Chemistry
Sigma Phi Epsilon Fraternity ~ National Honor Society ~ MENSA ~Who's Who Listed