

CURRICULUM VITAE

**Sophia Marathonitis (she/her)**

Department of Physiology

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**Education and Training**

**Aug. 2020 – present** **LSU Health Sciences Center**

PhD Student

Department of Physiology

Alcohol and Drug Abuse Center of Excellence

**Aug. 2016 – May 2020 Tulane University**

Bachelor of Science

Majors: Neuroscience and Sociology

**Research Experience**

**Mar. 2020 – present Graduate Research Assistant**

LSUHSC-New Orleans

Laboratory of Dr. Scott Edwards

Project: Adoption of the GP120 rodent model of HIV

neuropathology to investigate alcohol, pain, and cognition interactions

Techniques utilized include Western blot and gel electrophoresis

**Sept. 2020 – Mar. 2020 Graduate Research Assistant**

LSUHSC-New Orleans

Lab rotations in the Departments of Physiology, Cell Biology &

Anatomy, and Pharmacology

Physiology: Laboratory of Dr. Scott Edwards

Techniques utilized include Western blot and gel electrophoresis.

Pharmacology: Laboratory of Dr. Peter Winsauer

Techniques utilized include rat handling, IV drug administration,

and operant conditioning

Cell Biology & Anatomy: Laboratory of Dr. Deidre Devier

Techniques utilized include administration of cognitive

assessments and analyzing fMRI scans.

**Aug. 2019 – July 2020 Undergraduate Research Assistant**

LSUHSC-New Orleans, Neuroscience Center of Excellence

Laboratory of Dr. Jorgelina Calandria

Project: Colocalization of phospholipase A2 group VI and alpha-synuclein in human retinal pigment epithelial cells.

Techniques utilized include data analysis using ImageJ, Biovinci, Excel, and Imaris; confocal microscopy and immunocytochemistry.

**June – July 2019 Summer Undergraduate Neuroscience (SUN) Program**

LSUHSC-New Orleans, Neuroscience Center of Excellence

Laboratory of Dr. Jorgelina Calandria

Project: Phospholipase A2 Group VI and alpha-synuclein

interaction in human retinal pigment epithelial cells, a model for Parkinson’s disease.

Techniques utilized include cell culture, immunocytochemistry, confocal microscopy, Bradford protein assay, Western blot, gel electrophoresis, and Imaris software.

**June – July 2018** **Summer Undergraduate Neuroscience (SUN) Program**

LSUHSC-New Orleans, Neuroscience Center of Excellence

Laboratory of Dr. Jorgelina Calandria

Project: Phospholipase A2 group VI activity is required for the survival of retinal pigment epithelial cells, a Parkinson’s disease model.

Techniques utilized include cell culture, immunocytochemistry, confocal microscopy, Bradford protein assay, and Imaris software.

**Membership in Academic/Professional Organizations**

**May 2021 – present** LSUHSC Student Government Association

*VP of Public Relations*

**May 2021 – present** Association for Women in Science, Southern Louisiana Chapter

*Member*

**Jan. 2021 – present**  Society for Neuroscience

*Member*

**Sept. 2020 – present** LSUHSC Team Up Committee for Interprofessional Education

*Student representative, committee member*

**Sept. 2016 – May 2020** Tulane Neuroscience Association, Tulane University

*Member*

**Awards and Honors**

**2016 – 2020** Deans’ Honor Scholarship

Tulane University

Full tuition merit-based scholarship to Tulane

**2016 – 2018** Honors Program

Tulane University

**2020** Dean’s List, Spring Semester

Tulane University

**2016** Dean’s List, Fall Semester

Tulane University

**Research and Scholarship**

**Ongoing Research Support:**

T32AA007577 Molina, P. (PI)

Activation date: May 2021

NIH/NIAAA Institutional Research Training Grant

The Biomedical Alcohol Research Training Program prepares young pre-doctoral PhD and combined MD/PhD students, and postdoctoral fellows for research careers on the biomedical consequences of alcohol consumption and abuse.

Role: Trainee: Pre-doctoral Fellow

**Oral Presentations**:

**July 2019** *Phospholipase A2 Group VI and alpha-synuclein*

*interaction in human retinal pigment epithelial cells*

Neuroscience Center of Excellence, LSUHSC-New Orleans

**July 2018** *Phospholipase A2 group VI activity is required for the survival of*

*retinal pigment epithelial cells*

Neuroscience Center of Excellence, LSUHSC-New Orleans

**Service Activities**

**Aug. 2017 – Dec. 2017** ESL Tutor – Catholic Charities

Tulane University, New Orleans, LA

**Aug. 2019 – Dec. 2019** 5th grade math tutor

Lafayette Academy Middle School, New Orleans, LA