

Grace Sydney Pham

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Institution: UNTHSC-TCOM

Title: DO/PhD Candidate, OMS-III

Objective

As an aspiring physician-scientist, I am currently investigating the role of neuroimmune pathways in systemic lupus erythematosus-mediated hypertension. My career goals include pursuing a research-track residency in psychiatry, conducting pathophysiology research, educating future physicians, and raising awareness about health disparities in the community.

Education

PhD in Integrative Physiology

07/2015 to present

UNTHSC-Graduate School of Biomedical Sciences; Fort Worth, TX

Advisor: Dr. Keisa Mathis, PhD

Doctor of Osteopathic Medicine

06/2013 to present

UNTHSC-Texas College of Osteopathic Medicine; Fort Worth, TX.

MS in Medical Sciences

06/2012 to 05/2013

UNTHSC-Graduate School of Biomedical Sciences; Fort Worth, TX.

BA in English Literature, music concentration

05/2008 to 06/2012

University of Dallas; Irving, TX.

Publications

1. **Pham GS**, Mathis KW. Lipopolysaccharide Challenge Reveals Hypothalamic-Pituitary-Adrenal Axis Dysfunction in Murine Systemic Lupus Erythematosus. *Brain Sciences*. 2018; 8(10): 184.
2. **Pham GS**, Wang LA, Mathis KW. Pharmacological Potentiation of the Efferent Vagus Nerve Attenuates Blood Pressure and Renal Injury in a Murine Model of Systemic Lupus Erythematosus. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*. 2018; 315(6): R1261-R1271.
3. **Pham GS**, Mathis KW. Book Chapter: Autoimmunity, Estrogen, and Lupus. *Sex Differences in Cardiovascular Physiology and Pathophysiology*.

Abstracts

1. **Pham GS**, Osuzawa B, Fancher DL, Michaels TB, D'Cunha L, Mathis KW. 6-Hydroxydopamine Aggravates Renal Injury and Inflammation in a Murine Model of Systemic Lupus Erythematosus. *Oral Presentation*. Experimental Biology, San Diego, CA. April, 2018.

2. **Pham GS**, Chaudhari S, Fancher DL, Michaels TB, D’Cunha L, Mathis KW. Unilateral Cervical Vagotomy Protects Against Renal Injury and Hypertension in a Mouse Model of Lupus Hypertension. American Heart Association Council on Hypertension, San Francisco, CA. September, 2017.
3. **Pham GS**, Fairley AS, Maloy CI, Mathis KW. Differential effects of curcumin on renal and systemic inflammation in a mouse model of systemic lupus erythematosus. *Experimental Biology*, Chicago, IL. April 24, 2017.
4. **Pham GS**, Fairley AS, Mathis KW. Chronic Efferent Vagus Nerve Stimulation Enhances Norepinephrine-Mediated Inhibition of Splenic Pro-Inflammatory Cytokine Release in Lupus Hypertension. *Oral Presentation*. American Heart Association Council on Hypertension, Orlando, FL. September 2016.
5. **Pham GS**, Fairley AS, Maloy CI, Mathis KW. Vagus Nerve Stimulation Reduces Renal Inflammation and Prevents the Development of Hypertension in Systemic Lupus Erythematosus. *Oral Presentation*. *Experimental Biology*, San Diego, CA. April 3rd, 2016.
6. Maloy CI, Fairley AS, **Pham GS**, Mathis KW. Improvement in Blood Pressure and Renal Injury Following Vagal Nerve Stimulation. *Poster Presentation*. *Experimental Biology*, San Diego, CA. April 2-4 2016.
7. **Pham GS**, Kay VL, Rickards CA. Reproducibility of near infrared spectroscopy (NIRS)-derived peripheral muscle oxygenation measurements at rest and during central hypovolemia. *Experimental Biology*, Boston, MA. April 3rd 2015.
8. Colby HB, Sprick JS, **Pham GS**, Cooke W, Fogt D, Rickards CA. Cerebral Blood Flow Regulation Following Inhalation of Nicotine via Electronic Cigarettes. *Experimental Biology*, Boston, MA. April 3rd 2015.

Awards and Honors

- American Physiology Society Research Symposium Co-Chair** 04/2019
- Selected abstracts for featured topic session, "Autonomic Anti-Inflammatory Mechanisms: Which Branch Trumps?" sponsored by the Neural Control of Autonomic Regulation section of the APS
 - Will moderate research symposium at Experimental Biology 2019 in Orlando, FL
- 07/2018
- American Heart Association Southwest Affiliate - Evening of Gratitude** 07/2018
- Presented AHA-funded research to local donors in the DFW area
- UNTHSC Research Appreciation Day** 04/2018
- Department of Physiology and Anatomy - 3rd Place
- UNTHSC Research Appreciation Day** 04/2017
- Texas College of Osteopathic Medicine Medical Student Government Association - Best in 2nd Year Class
 - Texas College of Osteopathic Medicine Student Research Award - 2nd Place
 - Institute of Cardiovascular and Metabolic Disease - 3rd Place
- American Physiological Society (APS) Graduate Student Ambassador** 02/2017
- Serve as liaison between the APS and regional undergraduate institutions
 - \$1,200 for travel costs per Experimental Biology conference for 2017 and 2018
- American Heart Association Southwest Affiliate Predoctoral Fellowship** 07/2016
- Awarded for research proposal titled, "The Role of the Hypothalamic-Pituitary-Adrenal Axis in Lupus Hypertension"
 - \$51,920 awarded over 07/16 to 06/18
- American Physiological Society (APS) Caroline Tum Suden Predoctoral Award** 01/2016
- \$500 award and registration for Experimental Biology Conference in San Diego, CA 04/02-04/06/2016
- RSO Excellence in Financial Management for APAMSA** 05/2015
- Received a personal nomination from Jessica Johnson, Student Services Specialist, for treasury work in TCOM APAMSA chapter
- APS Excellence in Professional Student Research Travel Fellowship** 01/2015
- \$1800 travel stipend to Experimental Biology Conference in Boston, MA 03/27-04/01/2015.
 - Poster presentation on Reproducibility of NIRS-Derived Muscle Oxygenation Measurements at Rest and at Central Hypovolemia
- MSGA Organizational Travel Scholarship** 09/2014
- \$250 travel stipend to the National APAMSA Conference in Las Vegas, NV 09/27/2014
 - Represented TCOM chapter, learned about health disparities in the Asian-American community
- University of Dallas O'Hara Chemical Sciences Institute** 05/2008
- Tuition and board for an intensive General Chemistry I and II summer course

Memberships and Affiliations

Tutor - Center for Academic Performance at UNTHSC	04/2016-05/2017
American Heart Association - Southwest Affiliate	01/2016-present
Fort Worth Literary Society Book Club	06/2015-present
American Physiological Society	04/2015-present
American Physician-Scientist Association - UNTHSC Chapter	04/2015-present
APAMSA - UNTHSC-TCOM Chapter	06/2013-present
Student Osteopathic Internal Medicine Association (SOIMA)	06/2013-present

Skills and Certifications

■ Institutional Animal Care and Use Committee (IACUC)	July 2015
■ Advanced Cardiac Life Support (ACLS) and Basic Life Support (BLS)	June 2015
■ Institutional Review Board (IRB)	June 2014

Community Service

Student Mentoring

May 2016-present

- Courtney Day, Summer Multicultural Advancement Research Training (SMART) undergraduate student
- Luke D’Cunha, Masters in Medical Sciences student
- Tanya Michaels, premedical student
- Billy Osazuwa, SMART undergraduate student
- Orlexia Thomas, premedical student
- Sulaimon Bakre, UNTHSC Masters of Public Health student
- Shyam Vedantam, UNTHSC-TCOM student
- Jeremy Williams, SMART undergraduate student

Campus tours for prospective DO/PhD students

October 2015

- Provided an overview of UNTHSC research facilities to DO/PhD applicants

APS Physiology Understanding (PhUn) Week

November 2015-2018

- Assisted in physiology demonstrations at Dallas Park Elementary and William James Middle School

Health fairs

September 2013-2017

- Helped organize and provide health screening services at Hong Kong Market in Grand Prairie and the Arlington Chinese Church
- Provided basic translations and health advice to Spanish-speaking patients
- Taught newer members how to administer blood glucose checks, measure blood pressure, calculate BMI