



Nicholas D. Fried  
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**Education:**

- 2016- Present Louisiana State University Health Sciences Center, New Orleans, Louisiana  
Doctor of Philosophy in Physiology (Candidate), Doctor of Medicine (Candidate)  
United States Medical Licensing Examination, Step 1: Passed (247, June 2018)  
Advisor: Jason D. Gardner, PhD
- 2012- 2016 University of Maine, Orono, Maine  
Animal and Veterinary Science, Chemistry (Minor)  
Bachelor of Science, High Honors, Summa cum Laude, May 2016
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**Employment History:**

- 2020- Present Louisiana State University Health Sciences Center, New Orleans, Louisiana  
Nursing Pathophysiology Course Tutor  
Traditional and Career Alternative RN Education Programs
- 2013- 2016 University of Maine Athletic Department, Orono, Maine  
Student-Athlete Tutor  
Medical Physiology, Biology, Physics, Chemistry, Organic Chemistry, Biochemistry
- 2015 Michigan State University College of Osteopathic Medicine, East Lansing, Michigan  
Summer Undergraduate Physician-Scientist Education and Research Program
- 2013- 2014 United States Geological Survey, Lewistown, Montana  
Biological Field Technician – Sylvatic Plague Vaccination in Prairie Dogs  
Seasonal, Summer
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**Teaching Experience:**

- 2020- Present Cardiovascular Physiology I, II, and III (3 lecture hours per academic year)  
General and Oral Physiology for Dental Hygiene
- 2020 EKG Laboratory and Pulmonary Function Testing Laboratory  
Medical Physiology (6 laboratory hours)

2019- Arrhythmias & EKGs (3 lecture hours per academic year); Course Tutor  
Present Nursing Pathophysiology

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**Mentoring Experience:**

2019- Gardner Laboratory Co-Mentoring  
Present **Undergraduate:** Tierra Foley (Awarded top undergraduate student poster at 2019 LSUHSC – NO Department of Physiology Summer Research Day)  
**Post-Baccalaureate:** Diego Vargas (PREP scholar; awarded top post-baccalaureate poster at 2019 LSUHSC – NO Summer Student Research Day)  
**Medical Students:** John Johnson, Josh Edavettal  
**High School Teacher:** Erika Otero (APS Frontiers in Physiology program)

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**Awards, Grants, and Honors:**

2021 APSselect (April 2021) Award  
American Physiological Society

2020 Caroline tum Suden Professional Opportunity Award  
American Physiological Society

2016 University of Maine Class of 2016 Valedictorian

2015- J. Franklin Witter Undergraduate Research Endowment  
2016 University of Maine School of Food and Agriculture

2015- Inez Boyd Environmental Research Award  
2016 Penobscot Valley Chapter – Maine Audubon

2014- The Helen Louise Stinchfield '18 Memorial Medical Research Scholarship Fund  
2016 University of Maine Foundation

2012 Pennsylvania State Star in Agriscience  
The Pennsylvania FFA Association

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**Publications:**

1. **Fried ND**, Morris TM, Whitehead A, Lazartigues E, Yue X, Gardner JD. Angiotensin II type 1 receptor mediates pulmonary hypertension and right ventricular remodeling induced

by inhaled nicotine. *Am J Physiol Heart Circ Physiol*. 2021, 320: H1526–H1534. PMID: 33577434. APSselect (April 2021) Award winner.

2. **Fried ND**, Gardner JD. Heat-Not-Burn Tobacco Products: An Emerging Threat to Cardiovascular Health. *Am J Physiol Heart Circ Physiol*. 2020, 319: H1234–H1239. PMID: 33006919.
3. Oakes JM, Xu J, Morris TM, **Fried ND**, Pearson CS, Lobell TD, Gilpin NW, Lazartigues E, Gardner JD, Yue X. Effects of Chronic Nicotine Inhalation on Systemic and Pulmonary Blood Pressure and Right Ventricular Remodeling in Mice. *Hypertension*. 2020, 75:1305–1314. PMID: 32172623.

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### National and International Abstracts, Posters, and Presentations:

1. **Fried ND**, Morris TM, Whitehead A, Lazartigues E, Yue X, Gardner J. Chronic Inhaled Nicotine-Induced Pulmonary Hypertension and Right Ventricular Remodeling are Mediated by Angiotensin-II Type 1 Receptor. Experimental Biology Abstract (Oral presentation), *FASEB Journal*. 2021.
2. Whitehead A, **Fried ND**, Morris TM, Pearson CM, Li Z, Lefer D, Gardner JD, Lazartigues E, Yue X. Chronic Nicotine Inhalation-Induced Vascular Dysfunction is Mediated by the Alpha 7 Nicotinic Acetylcholine Receptor. Experimental Biology Abstract (Poster), *FASEB Journal*. 2021.
3. **Fried ND**, Morris TM, Woods DC, Oakes JM, Xu J, Ninh VK, Lazartigues E, Yue X, Gardner JD. Chronic Nicotine Inhalation Promotes Differential Remodeling of the Right and Left Ventricles in Mice. Experimental Biology Abstract (Poster), *FASEB Journal*. 2020. 34, S1. Caroline tum Suden Professional Opportunity Award recipient.
4. **Fried ND**, Morris TM, Woods DC, Oakes JM, Xu J, Lazartigues E, Gardner JD, Yue X. Effects of Chronic Nicotine Inhalation on Systemic and Pulmonary Blood Pressure and Right Ventricular Remodeling in Mice. Experimental Biology Abstract (Poster), *FASEB Journal*. 2020. 34, S1.
5. **Fried ND**, Berghage R. The effect of green roofing on adjacent building temperature. Poster presentation: National FFA Organization Agriscience Fair. 2010. Awarded a silver medal.

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### Local and State Abstracts, Posters, and Presentations:

1. **Fried ND**, Morris TM, Whitehead A, Lazartigues E, Yue X, Gardner J. Angiotensin-II type 1 receptor blockade ameliorates chronic inhaled nicotine-induced pulmonary

hypertension and right ventricular remodeling. Oral presentation: LSUHSC Alcohol & Drug Abuse Center of Excellence 13<sup>th</sup> Scientific Retreat (Mechanisms & Consequences of Psychostimulant Abuse).

2. **Fried ND**, Morris TM, Whitehead A, Lazartigues E, Yue X, Gardner J. Angiotensin-II receptor blockade ameliorates chronic inhaled nicotine-induced pulmonary hypertension and right ventricular remodeling. Poster presentation: LSUHSC – New Orleans Graduate Research Day. 2020.
  3. **Fried ND**, Oakes JM, Morris TM, Ninh, VK, Lazartigues E, Yue X, Gardner JD. Effects of Chronic Inhaled Nicotine on Cardiac Remodeling. Poster presentation: LSUHSC – New Orleans Graduate Research Day. 2019.
  4. **Fried ND**, Yi B, Gardner S, Xi Y. QKI suppresses breast tumor cell metastasis by inhibiting Wnt signaling pathway. Poster presentation: LSUHSC – New Orleans Medical Student Research Day. 2017.
  5. **Fried ND**, Han S, Weber JA, Tsao JI. Development of a Novel qPCR Protocol for Improved *Borrelia Burgdorferi* Detection in Mammal Tissue Samples. University of Maine Honors Thesis. 2016. Awarded the distinction of High Honors.
  6. **Fried ND**. The effect of biodiesel fuel on plant growth. Oral presentation: Pennsylvania Junior Academy of Science State Competition. 2012. Awarded first place with a perfect score.
  7. **Fried, ND**. The effect of biodiesel fuel on plant growth. Poster presentation: Capitol Area Science & Engineering Fair. 2011. Awarded first place and the US Army Environmental Special Award.
  8. **Fried ND**, Raines C. The effect of wet aging on meat tenderness. Poster presentation: Pennsylvania Farm Show Science Fair. 2009. Awarded best in show.
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#### **Activities and Professional Societies:**

2019- American Physiological Society  
Present

2019- American Heart Association  
Present

2016- American Physician Scientists Association  
Present



- 2019-2021 LSUHSC – New Orleans School of Graduate Studies SGA  
Physiology Ambassador (2019-2020), VP of Public Relations (2020-2021)
- 2019-2020 LSUHSC – New Orleans MD/PhD Program  
Buddy Program Coordinator
- 2016-2020 Infectious Diseases Interest Group  
Community Liaison (2017-2018), Secretary (2018-2019)
- 2016-2018 LSUHSC – New Orleans Student-Run Homeless Clinic
- 2015-2016 Operation H.E.A.R.T.S.  
Hands-on Educational Association Reaching-out Through Service
- 2014-2016 EWE – Maine Icelandic Sheep Club  
Founding Member, Secretary (2014-2015), Vice President (2015-2016)
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