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Spring 2021

Office of Research, Grants and Sponsored Programs Newsletter, Spring 2021

Lincoln Memorial University, Office of Research, Grants, and Sponsored Programs

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2021-2022 Mini-Grants Awarded

The Mini-Grant Committee, a sub-committee of COSA (Committee on Scholarly Activity) recently awarded three mini-grants to LMU faculty members.

- Asher Flynn, Assistant Professor of Allied Health Science received a grant for his project titled, "The Reliability of Salivary Alpha-Amylase Measurements by a Point-of-Care Device Across Different Exercise Modes"
- Matthew Marcum, Assistant Professor of Veterinary Health Science received a grant for his project titled, "Infectious Diseases of Cats in Kentucky, Tennessee and Virginia"
- Abigail Heiniger, Assistant Professor of English received a grant for her project titled, "Fairy Tales from the Margins During the Long Nineteenth-Century"

LMU Mini-grants are awarded each year in April, for more information visit the ORGSP's webpage at <https://www.lmunet.edu/orgsp/lmu-mini-grants-program.php> or contact Carolyn Gulley at carolyn.gulley@lmunet.edu or 423.869.6291.

LMU Students Receive Ledford Scholar Awards From Appalachian College Association

- Evan Collett for his project, "Piroplasms in the Genera Babesia, Theileria, and Cytauxzoon from Ixodid ticks in the Cumberland Gap Region"
- Ian Cook for his project, "Can Eastern Hellbender (*Cryptobranchus alleganiensis*) populations be detected in the Susquehanna River Watershed of New York State using eDNA survey methods?"
- Caitlin Davidson for her project, "Assessing the growth and survival of two species of endangered freshwater mussels native to the Powell River, *Epioblasma capsaeformis* and *Epioblasma brevidens*"
- Jarvis Pennington for his project, "Characterization of the Lumbar Arteries in Relationship to Lateral Lumbar Interbody Fusion Surgical Landmarks"
- Emily Roark for her project, "Activity of ticks from various habitats and times of day, and corresponding infection status with *Borrielia* spp. And *Babesia* spp."
- Eli Tate for his project, "Estimate of owl diversity and habitat preferences that various owl species utilize in East Tennessee"
- Lena Watson for her project, "Generation of an LM and SEM-based marine copepod identification database and guide"

Dr. Martin Sellers, Dean of the Paul V. Hamilton School of Arts, Humanities and Social Sciences presented at the ASPA Virtual Conference, Potential Directions for the Future of Technology through a Social Equity Lens. The conference was held on April 10, 2021 and the title of his presentation was, "Online MPA Program: When, Why and How to Transition from Seated to Online".

Should a seated MPA program be transitioned to an online or blended online? This was the issue that was discussed and debated at Lincoln Memorial University for over a year. Trustees, administrators, faculty, students and staff had a hand in the decision making process. The compelling components were tuition, enrollment, flexibility and student need. The elements weighing against a transition were teaching pedagogy, participation of local and state speakers, internships, and a desire to have students connect outside the classroom. The pathway to transitioning to an online program is a tangled one, but can be straightened out by sticking to a few well thought out rules.

Honors Scholars Program

In February, five Honors Scholars, Emily Roark, Sarah Hopkins, Jarvis Pennington, Kurtis Orrson and Emma Cummings, presented at the Tennessee Collegiate Honors Council Conference, along with honors students from 11 other institutions in the state. HSP students competed with other colleges and universities in a trivia contest midday, the winning school received bragging rights! Dr. Sandra Weems, Assistant Professor of English, represented the LMU HSP by hosting and moderating one of the sessions at the virtual conference.

In March, Dr. Weems and two students presented papers at an all-LMU panel at the 10th Annual International Health Humanities Consortium. The virtual conference was hosted by Penn State University and attended by an interdisciplinary group of 250 attendees, including physicians and humanities scholars from a wide range of specialties and disciplines.

The conference theme was *Crisis and Community: The Role of Health Humanities*. Dr. Weems said when the call for proposals came out last fall, she realized that she and two of her students had overlapping interests about ways the global pandemic had affected many people's relationship to food and, as a result, their physical and mental health. So, we proposed and were accepted to present a paper panel that examined these issues in different ways.

Katherine DeMars, a medical student at DCOM, drew on her experiences in her third-year rotations and research in social determinants of health to present "Hungry for Change: The complex relationship between nutrition, socioeconomic status, and health outcomes."

Jennifer Gambrel, an English undergraduate, surveyed the new and growing sub-field of medicine and psychology called "culinary therapy" and presented her research in a paper titled "Culinary Therapy Cooks Up Benefits."

Dr. Weems presented a paper based on pedagogy and student response in my ENGL 350 class, Narrative, Healing, and the Body, called "Lessons Online: Teaching Jessica Fechter's *Stir* During Lockdown in Appalachia."

News from the College of Veterinary Medicine

Publications:

Wells, J., Watson, K., Davis, R. E., Quadri, S. S. A., Mann, J. R., Verma, A., Sharma, M., & Nahar, V. K. (In Press). "Associations among Stress, Anxiety, Depression, and Emotional Intelligence among Veterinary Medicine Students". *International Journal of Environmental Research and Public Health*

Matveychuk, D., MacKenzie, E.M., Kumpula, D., Song, M.S., Holt, A., Kar, S., Todd, K.G., Wood, P.L. and Baker, G.B., 2021. "Overview of the Neuroprotective Effects of the MAO-Inhibiting Antidepressant Phenelzine". *Cellular and Molecular Neurobiology*

Fogelberg, K., Simons, M. and Anderson, S. (2020). "Qualitative Analysis of Student Responses to Survey Questions Investigating Student Perceptions of Case-Based Learning". *Education in the Health Professions* (in press)

Hunt, J.A., Anderson, S.L. "Remote delivery of veterinary clinical skills courses during the COVID-19 pandemic," *Journal of Veterinary Medical Education*, <https://doi.org/10.3138/jvme-2020-0084>

Conley, K.J., Seimon, T.A., Popescu, I.S., Wellehan Jr, J.F., Fox, J.G., Shen, Z., Haakonsson, J., Seimon, A., Brown, A.T., King, V. and Burton, F., 2021. "Systemic Helicobacter infection and associated mortalities in endangered Grand Cayman blue iguanas (*Cyclura lewisi*) and introduced green iguanas (*Iguana iguana*)". *PloS one*, 16(2), p.e0247010.

Anderson S.L., Miller L., Gibbons P., Hunt J.A., Roberson J., Raines J.A., Patterson G., Dascanio J.J. "Development and validation of a bovine castration model and rubric".

Journal of Veterinary Medical Education. 2021. 48(1):96-104. doi.org/10.3138/jvme.2018-0016

Hunt J.A., Anderson S.L., White J., Kelly C., Spangler D. "The impact of extracurricular surgical experience on veterinary students' performance of canine ovariohysterectomy and orchidectomy in a clinical skills curriculum". *Journal of Veterinary Medical Education* 2021. 48(1):105-114. doi.org/10.3138/jvme.2019-0008

Presentations:

Fogelberg, K., Price, B., Bhatka, H., Simons, M., Loy, M., Raghavan, M. (2020) Association of Veterinary Technician Educators 2021 Conference. St. Louis, MO.

Karen Gruszynski presented at the American Association of Geographers 2021 Annual Conference. Title was "Livestock and Poultry Throughout Appalachian States." Special session based upon chapters submitted for the forthcoming Economic Geographies of US Livestock book being published by Palgrave-MacMillan.

Submitted Article:

Karen Gruszynski and Gary Vroegindewey will be featured in the next *Cumberland Mountain Naturalist*, which is a quarterly journal published by the Lincoln Memorial University's Cumberland Mountain Research Center. Article will be titled "COVID-19: A One Health Issue". The article highlights work conducted on OIE Project over the summer.

Submitted Abstracts:

Emma Pawlowski, Daniel Handler, Karen Gruszynski, Gary Vroegindewey. COVID-19: Impact of wet markets and wildlife trade. American Public Health Association 2021 Annual Meeting and Expo.

Andrea Rios Gonzalez, Karen Gruszynski, Gary Vroegindewey. Informatics search results for animal welfare issues during sars-cov-2 pandemic. American Public Health Association 2021 Annual Meeting and Expo.



LMU recently hosted the Blue Ridge Undergraduate Research Conference and LMU Research Day as virtual events. Students submitted their recorded presentations and they were posted on LMU's website for a week, with winners posted on Friday. Both events were a success with a total of over 100 students submitting presentations. Below are the winners from each event, the presentations will remain on LMU's website on the ORGSP's webpage throughout the summer for viewing.

Blue Ridge Undergraduate Research Conference 2021 Winners by Presentation Category

Allied Health

First Place Poster - **Sadie Pittman** - Lincoln Memorial University
First Place Oral - **C. Angelica Barnett** - Lincoln Memorial University
Second Place Poster - **Natalie Monroe** - Lincoln Memorial University

Humanities / Arts / Language

First Place Poster - **Mykaela Chaffin** - Eastern Kentucky University
First Place Oral - **Laura Kimzey** - Bluefield College
Second Place Poster - **Jesse Day** - Eastern Kentucky University
Second Place Oral - **Jennifer Gambrel** - Lincoln Memorial University
Third Place Poster - Tie: **Brandi Mills and Jami Fisher** - Eastern Kentucky University
Third Place Oral - **Samantha Smith** - Eastern Kentucky University

Mathematics / Computer Science

First Place Poster - **Ethan Nusso** - East Tennessee State University

Natural Life Science

First Place Poster - **Emily Roark** - Lincoln Memorial University
First Place Oral - **Tyra Sanchez** - Lincoln Memorial University
Second Place Poster - **Dakota Topp** - Mars Hill University
Second Place Oral - **Giselle Ghabussi** - Lincoln Memorial University
Third Place Poster - **Kayla Hammer** - Lincoln Memorial University
Third Place Oral - **Joseph Serrenho** - Lincoln Memorial University

Psychology

First Place Poster - **Thomas Morris** - Eastern Kentucky University
First Place Oral - **Lindsey Nangle** - King University
Second Place Poster - **Saul Barrera** - Union College
Second Place Oral - **Maya Houston** - King University
Third Place Poster - **Kammey Powers** - Union College
Third Place Oral - **Kaitlyn Hornbeck** - King University

Social Sciences

First Place Oral - **Mahalia Cain** - Lindsey Wilson College

LMU RESEARCH DAY WINNERS

Oral Presentation - Graduate/Professional

First Place - **Andrew Kleehammer and Kale Davidson**

DeBusk College of Osteopathic Medicine

Second Place – Tie: **Stephanie Kendrick and Kai Ming Tan**

DeBusk College of Osteopathic Medicine

Oral Presentation – Undergraduate

First Place - **Tyra Sanchez**

School of Mathematics and Sciences

Second Place – Tie: **Bethany Boggs and Austyn Simmons**

School of Mathematics and Sciences

Poster Presentation – Graduate/Professional

First Place – **Almujeeb Danmole**

DeBusk College of Osteopathic Medicine

Second Place – **Andrea Crickard**

College of Veterinary Medicine

Poster Presentation – Undergraduate

First Place – **Kayla Hammer**

Carter and Moyers School of Education

Second Place – **Natalie Monroe**

School of Allied Health Sciences

Recent Submissions and Awards

Recent Grant Submissions:

Dr. Sherry Jimenez submitted a proposal to the American Association of Colleges of Osteopathic Medicine.

Dr. Kathleen Makolinski submitted a proposal to PetSmart.

Ms. Robin Susong submitted a proposal to the Tennessee Highway Safety Patrol High Visibility Grant

Dr. John McCook submitted a grant to the Tennessee Higher Education Commission.

Recent Grant Awards:

Seven LMU students were awarded Ledford Scholar Awards from the Appalachian College Association:

Lena Watson, Eli Tate and Jarvis Pennington / faculty mentor Dr. LaRoy Brandt

Evan Collett and Emily Roark / faculty mentor Dr. Barbara Shock

Caitlin Davidson / faculty mentor Dr. Aggy Vanderpool

Ian Cook / faculty mentor Dr. Whitney Kistler

Dr. Kathleen Makolinski and student Elizabeth Hall were awarded a grant from PetSmart

The College of Veterinary Medicine was awarded a grant from the U. S. Department of Agriculture, National Institute of Food and Agriculture.

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Reminder from the LMU Institutional Review Board (IRB)

Please remember that all research proposals and projects involving human subjects, must have IRB approval **prior** to the presentation of any information gathered during the course of the research.

Under federal policy, the IRB cannot grant retroactive IRB approval.

All applications for external funding must first begin by contacting the ORGSP.

If your grant award, application, presentation, or publication has not been mentioned in this edition, please forward your information to us using the contact information listed above. Thank you!

Institutional Animal and Care Use Committee (IACUC)

All research proposals and projects involving animals must have IACUC approval. Please have protocols submitted at least one week before the next scheduled meeting for committee review. Below is a schedule of upcoming IACUC meetings:

May 11, 2021

June 8, 2021

July 13, 2021

August 10, 2021

September 14, 2021