

## 2021-2022 Carmen Pettapiece Student Research Fellowship

TO: UNE COM faculty, staff, and students  
FROM: UNE COM SGA Professional Development Committee  
DATE: March, 31 2021

The Student Government Association's Professional Development Committee at UNE COM would like to congratulate the following UNE COM students who have received the 2021-2022 Carmen Pettapiece Student Research Fellowship:

### SGA/Dean Funds

- 1. Alyssa Ahern (Class of 2023)**  
**Project title:** Transgender, Gender Non-Conforming, and Gender Diverse (TGD) Inclusive Curriculum in Emergency Medicine Graduate Medical Programs: A Literature  
**Mentor:** Marilyn Gugliucci, MA, PhD UNE COM
- 2. Marah Alian (Class of 2024)**  
**Project title:** Contribution of Bone Morphogenic Protein Signaling in Ultraviolet Irradiation Induced Corneal Nerve Sensitization  
**Mentor:** Ian Meng, PhD UNE COM
- 3. Stephen Cheng (Class of 2023)**  
**Project title:** Rat Sex Dependent Immune Cells Differences in Synovial Fluid of Monosodium Iodoacetate-Induced Knee Osteoarthritis  
**Mentors:** Tamara King, PhD and Diana Goode, PhD UNE COM
- 4. Hsin I Chu & Rushi Shah (Class of 2022)**  
**Project title:** Trending chief complaints among COVID-19 positive patients of the Eastern Connecticut Health Network healthcare system  
**Mentor:** Hwyda Arafat, MD, PhD UNE COM
- 5. Kaye Dandrea (Class of 2024)**  
**Project title:** File of Life™: Older Adult Perspectives and Counsel to Increase Usage  
**Mentor:** Marilyn Gugliucci, MA, PhD UNE COM
- 6. Savannah Dimick (Class of 2024)**  
**Project title:** Primary Care Provider's Use of the Social Determinants of Health (SDoH) in Patient Care: A Pilot Study  
**Mentor:** Richard Stefanacci, DO Jefferson College of Population Health

- 7. Madeline Egan and Cassandra Papaleo (Class of 2024)**  
**Project title:** Death Awareness and Well-Being in Older Adults  
**Mentor:** Thomas Meuser, PhD UNE COM
- 8. Samuel Hanlon and Benjamin Packard (Class of 2023)**  
**Project title:** Data and Thematic Analyses: Significance of Participating in the 48 Hour Hospice Home Immersion Project  
**Mentor:** Marilyn Gugliucci, MA, PhD UNE COM
- 9. Rachel Hampton (Class of 2024)**  
**Project title:** Ketamine Assisted Psychotherapy (KAP) in Maine: An Investigation of Patient Demographics  
**Mentor:** Selma Holden, DO UNE COM
- 10. Gesele Henderson (Class of 2024)**  
**Project title:** Investigating the effects of saphenous nerve transection on early tibia bone remodeling  
**Mentor:** Kathleen Becker, PhD and Tamara King, PhD UNE COM
- 11. Tara Herbert (Class of 2024)**  
**Project title:** The Effects of Peer Support Groups and Patient Education on Weight Loss in Adults  
**Mentor:** Beth Mazyck, MD UMass Fitchburg Family Medicine Residency / HealthAlliance Fitchburg Family Practice
- 12. Cathleen Huang (Class of 2022)**  
**Project title:** Perivascular Adipocyte Tissue Surrounding Aneurysms  
**Mentor:** Lucy Liaw, PhD Maine Medical Center Research Institute
- 13. Kevin Huang (Class of 2024)**  
**Project title:** Examining the Effects of Morphine and Sertraline on Bone Density of Mice  
**Mentor:** Katherine Motyl, PhD Maine Medical Center Research Institute
- 14. Laila Khatib (Class of 2024)**  
**Project title:** The Enigma of GVHD Resolution: Which T Cell Subset is at Play?  
**Mentor:** Sherrie Divito, MD, PhD Brigham and Women's Hospital Dana Farber Cancer Institute Harvard Medical School
- 15. Garen Koutoujian (Class of 2024)**  
**Project title:** Measuring the Impacts Of Osteopathic Manipulative Medicine On Allostatic Load Biomarkers Associated With Adverse Childhood Experiences  
**Mentor:** Christopher Frothingham, DO UNE COM

- 16. Melanie Kusakavitch (Class of 2024)**  
**Project title:** Optical Coherence Tomography as a Novel Approach to Guide FAI Resection  
**Mentor:** Mark Brezinski, MD, PhD UNE COM
- 17. Conner Lajoie (Class of 2024)**  
**Project title:** Elucidating the role of Dock7 in osteoblast differentiation in a novel knockout mouse model  
**Mentor:** Kathleen Becker, PhD UNE COM
- 18. Kaitlyn Lavarney (Class of 2023)**  
**Project title:** The Utility of Student Lead Medical Education During a Pandemic  
**Mentor:** Carol Brenner, PhD UNE COM
- 19. Anna McLean (Class of 2022)**  
**Project title:** Exploring the Efficacy of Baclofen as a Pharmacological Therapy for Methamphetamine Use Disorder Through a 12-week Trial in Adult Individuals  
**Mentor:** Paul Rancicot, MD LRG Healthcare
- 20. Shana Morel (Class of 2024)**  
**Project title:** Quantitative Examination of Hedgehog Signaling in Primary Cilia of Neural Crest Cells in A Mouse Model of Congenital Heart Disease  
**Mentor:** Kerry Tucker, PhD UNE COM
- 21. Shannon Munro (Class 2024)**  
**Project title:** Dropout Rate in the Lead- In Phase of "Beta1-selective blockade for prevention of postmenopausal bone loss: A randomized controlled trial," due to subjective and objective symptoms.  
**Mentor:** Clifford Rosen, MD Maine Medical Center Research Institute
- 22. Savannah Nelson (Class of 2023)**  
**Project title:** Identifying Coronary Plaques That Lead to Myocardial Infarction: Identifying the Most Effective OCT Techniques for Use in Upcoming Double-Blind Clinical Trials  
**Mentor:** Mark Brezinski, MD, PhD UNE COM
- 23. Keeyon Olia (Class of 2024)**  
**Project title:** Sleep Disparities and Lifestyle Factors in a Diverse Group of Adolescents from Different Neighborhoods in Boston  
**Mentor:** Monika Haack, MD Harvard Medical School
- 24. Rachel Shoemaker (Class of 2024)**  
**Project title:** Intrauterine Device use by Transgender AFAB Individuals: A Pilot Study  
**Mentor:** Brandy Brown, LCSW Maine Medical Partners Pediatric Specialty Care

## The Kahn Family Foundation Funds

25. **Paige Ahlholm (Class of 2024)**  
**Project title:** The role of CD2AP scaffold protein in Alzheimer's disease  
**Mentor:** Benjamin Harrison, PhD UNE COM
26. **Aishwarya Ayyappan (Class of 2024)**  
**Project title:** Investigating whether optogenetic activation of CRF+ cells in the CeA is sufficient for inducing an increased pain-susceptible state in rats that have been exposed to neonatal trauma.  
**Mentor:** Michael Burman, PhD UNE CAS
27. **Nora Connors (Class of 2024)**  
**Project title:** Inflammatory responses within lumbar dorsal root ganglia following sciatic nerve crush in microglial CD137L conditional knockout mice.  
**Mentor:** Ling Cao, MD, PhD UNE COM
28. **Kimberly Drago (Class of 2024)**  
**Project title:** The Role of Spinal Cord Processing of Sensory Input in Maintaining Movement Evoked Breakthrough Pain  
**Mentor:** Tamara King, PhD UNE COM
29. **Siobhan Fennel (Class of 2024)**  
**Project title:** Neuronal major histocompatibility complex II and the regulation of anti-inflammatory CD4+ T cells in chemotherapy-induced peripheral neuropathy  
**Mentor:** Diana Goode, PhD UNE COM
30. **Daniel Gehan (Class of 2024)**  
**Project title:** Building a Fiber Photo-Optometry Set-Up to Measure in vivo Acetylcholine Levels in Mouse Nucleus Accumbens in the Context of Pain Chronification  
**Mentor:** Christoph Straub, PhD UNE COM
31. **Aj Grahm (Class of 2024)**  
**Project title:** Conditioned Pain Modulation and it's Utilization in Pain Management  
**Mentor:** Katherine S. Rudolph, PhD, PT UNE WCHP
32. **Mariza Nary (Class of 2024)**  
**Project title:** An investigation of the NMDA receptor expression and activity in its involvement in pain sensitivity between sexes in *Drosophila melanogaster*  
**Mentor:** Geoffrey Ganter, PhD UNE CAS

## UNE Center of Excellence for the Neurosciences Funds

### 33. Connor Devoe (Class of 2024)

**Project title:** Determining the Role of the Transcriptional Regulatory Protein CELF4 on Pro-Nociceptive Protein Expression in Dorsal Root Ganglion Neurons

**Mentors:** Benjamin Harrison, PhD and Diana Goode, PhD UNE COM

### 34. Bruno Sousa DiNucci (Class of 2024)

**Project title:** Sciatic nerve responses in CD137L knockout mice following sciatic nerve crush-induced neuropathic pain

**Mentor:** Ling Cao, MD, PhD UNE COM