

**UNE COM**

New England's Osteopathic Medical School

## COLLEGE OF OSTEOPATHIC MEDICINE

# Faculty Research Interests 2025

UNE COM faculty listed in this document are either conducting active research or, if not, are open to discussing their research interests with COM students as well as possibly directing students to someone who shares the student's research interests.

Faculty	Research Interests
<b>Kathleen Becker, Ph.D.</b> Assistant Professor <a href="mailto:kbecker3@une.edu">kbecker3@une.edu</a>	<ul style="list-style-type: none"><li>Bone formation and cross-talk between bone, fat, and the nervous system</li><li><b>Becker Lab:</b> <a href="https://une.edu/people/kathleen-becker">une.edu/people/kathleen-becker</a></li></ul>
<b>Ling Cao, M.D., Ph.D.</b> Professor <a href="mailto:lcao@une.edu">lcao@une.edu</a>	<ul style="list-style-type: none"><li>Neuroimmune mechanisms of chronic pain and HIV-associated neurological disorders</li><li>Chronic pain related clinical/population studies</li><li><b>Cao Lab:</b> <a href="https://une.edu/people/ling-cao">une.edu/people/ling-cao</a></li></ul>
<b>Stuart N. Damon, D.O., M.S.</b> Associate Clinical Professor <a href="mailto:sdamon@une.edu">sdamon@une.edu</a>	<ul style="list-style-type: none"><li>Using the NASA TLX to determine optimal cognitive load in high fidelity simulation among osteopathic medical students</li><li>Identifying and confirming properties of counterstrain points using ultrasonography</li></ul>
<b>Eben Estell, Ph.D.</b> Assistant Professor <a href="mailto:eestell2@une.edu">eestell2@une.edu</a>	<ul style="list-style-type: none"><li>Tissue engineering</li><li>Bone mechanobiology</li><li>Musculoskeletal cell signaling</li><li><b>More Information:</b> <a href="https://une.edu/people/eben-g-estell">une.edu/people/eben-g-estell</a></li></ul>
<b>Russ Ferland, Ph.D.</b> Professor; Chair of the Department of Biomedical Science <a href="mailto:rferland2@une.edu">rferland2@une.edu</a>	<ul style="list-style-type: none"><li>Genetics and mechanisms of epileptogenesis (epilepsy)</li><li>Primary cilia in developmental disorders</li><li><b>More Information:</b> <a href="https://une.edu/people/russ-ferland">une.edu/people/russ-ferland</a></li></ul>
<b>Charilaos (Harry) Filippakis, Ph.D.</b> Assistant Professor <a href="mailto:cfilippakis@une.edu">cfilippakis@une.edu</a>	<ul style="list-style-type: none"><li>Cancer metabolism and mechanisms of aberrant mTOR activation</li><li><b>Filippakis Lab:</b> <a href="https://une.edu/people/charilaos-harry-filippakis">une.edu/people/charilaos-harry-filippakis</a></li></ul>
<b>Diana Goode, Ph.D.</b> Associate Professor <a href="mailto:dgoode@une.edu">dgoode@une.edu</a>	<ul style="list-style-type: none"><li>Neuron-CD4+ T cell communication</li><li>Chemotherapy-induced peripheral neuropathy</li><li><b>Goode Lab:</b> <a href="https://une.edu/people/diana-j-goode">une.edu/people/diana-j-goode</a></li></ul>
<b>Eliza Grlickova-Duzevik, M.D., Ph.D.</b> Assistant Clinical Professor <a href="mailto:egrlickovaduzevik@une.edu">egrlickovaduzevik@une.edu</a>	<ul style="list-style-type: none"><li>Bioinformatics</li><li>Neuroscience</li><li>Molecular and cellular biology</li><li>Culinary medicine</li><li><b>More Information:</b> <a href="https://une.edu/people/eliza-grlickova-duzevik">une.edu/people/eliza-grlickova-duzevik</a></li></ul>
<b>Marilyn R. Gugliucci, M.A., Ph.D.</b> Professor; Director of Geriatrics Research <a href="mailto:mgugliucci@une.edu">mgugliucci@une.edu</a>	<ul style="list-style-type: none"><li>48 hour hospice home immersion research</li><li>Older adults falls and exercise research</li><li>Virtual reality education research</li><li>LGBT-focused projects</li></ul>

<b>Benjamin Harrison, Ph.D.</b> Associate Professor <a href="mailto:bharrison2@une.edu">bharrison2@une.edu</a>	<ul style="list-style-type: none"> <li>Neuroplasticity and genomics</li> <li><b>Harrison Lab:</b> <a href="https://une.edu/people/benjamin-j-harrison">une.edu/people/benjamin-j-harrison</a></li> </ul>
<b>Matt Havrda, Ph.D.</b> Associate Dean of Research and Scholarship <a href="mailto:mhavrda1@une.edu">mhavrda1@une.edu</a>	<ul style="list-style-type: none"> <li>Neuroinflammatory mechanisms in Parkinson's disease and related disorders</li> </ul>
<b>Selma C. Holden, M.D., M.P.H., M.S.</b> Clinical Associate Professor <a href="mailto:sholden1@une.edu">sholden1@une.edu</a>	<ul style="list-style-type: none"> <li>Ketamine-assisted psychotherapy in the general population</li> <li>M.D.M.A.-assisted psychotherapy for post traumatic stress</li> <li><b>More Information:</b> <a href="https://une.edu/people/selma-holden">une.edu/people/selma-holden</a></li> </ul>
<b>Karen Houseknecht, M.S., Ph.D.</b> Professor of Pharmacology; Vice President of Research and Scholarship <a href="mailto:khouseknecht@une.edu">khouseknecht@une.edu</a>	<ul style="list-style-type: none"> <li><b>More Information:</b> <a href="https://une.edu/people/karen-l-houseknecht">une.edu/people/karen-l-houseknecht</a></li> </ul>
<b>Tamara King, Ph.D.</b> Professor <a href="mailto:tking6@une.edu">tking6@une.edu</a>	<ul style="list-style-type: none"> <li>Musculoskeletal pain</li> <li>Osteoarthritis</li> <li>TMJ pain</li> <li>Discogenic back pain</li> <li><b>King Lab:</b> <a href="https://une.edu/people/tamara-king">une.edu/people/tamara-king</a></li> </ul>
<b>Kin S. Ly, Pharm.D., Ed.D.</b> Associate Clinical Professor <a href="mailto:kly@une.edu">kly@une.edu</a>	<ul style="list-style-type: none"> <li>Interprofessional Education (IPE) Research</li> <li>Social Determinants of Health (SDOH), racism in health care, and impacts of climate change on planetary and human health</li> <li>Medical Education Research: curriculum, assessment, AI for electronic learning (eLearning), student support</li> <li><b>More Information:</b> <a href="https://une.edu/people/kin-s-ly">une.edu/people/kin-s-ly</a></li> </ul>
<b>Geoffrey McCullen, M.D., M.S., FAAOS</b> Assistant Teaching Professor	<ul style="list-style-type: none"> <li>Literature Reviews (narrative and systematic) emphasizing important questions that exist at the intersections of medical disciplines and between medicine and economics, sociology, psychology, and policy</li> </ul>
<b>Ian D. Meng, Ph.D.</b> Professor; Director of the Center for Pain Research (COBRE) and the Center for Excellence in the Neurosciences <a href="mailto:imeng@une.edu">imeng@une.edu</a>	<ul style="list-style-type: none"> <li>Dry eye disease</li> <li>Trigeminal pain</li> <li>Neuroplasticity and chronic pain</li> <li><b>Meng Lab:</b> <a href="https://une.edu/people/ian-d-meng">une.edu/people/ian-d-meng</a></li> </ul>
<b>Derek C. Molliver, Ph.D.</b> Professor; Director of the Center for Cell Signaling Research (COBRE) <a href="mailto:dmolliver@une.edu">dmolliver@une.edu</a>	<ul style="list-style-type: none"> <li>Cell signaling</li> <li>Metabolic control of neuronal function</li> <li>Mechanisms of chronic pain in mouse and human models</li> <li><b>Molliver Lab:</b> <a href="https://une.edu/people/derek-molliver">une.edu/people/derek-molliver</a></li> </ul>
<b>Stacey Pierce-Talsma, D.O., M.S., FNAOME</b> Associate Dean of Academic Affairs <a href="mailto:spiercetalsma@une.edu">spiercetalsma@une.edu</a>	<ul style="list-style-type: none"> <li>Innovation in medical education</li> <li>Yoga</li> <li><b>More Information:</b> <a href="https://une.edu/people/stacey-l-pierce-talsma-0">une.edu/people/stacey-l-pierce-talsma-0</a></li> </ul>
<b>Luis Queme, M.D., Ph.D.</b> Assistant Professor <a href="mailto:lqueme@une.edu">lqueme@une.edu</a>	<ul style="list-style-type: none"> <li>Peripheral mechanisms of somatosensation</li> <li>Musculoskeletal pain</li> <li>Stress</li> <li>Neuroimmune interactions</li> <li><b>Queme Lab:</b> <a href="https://une.edu/people/luis-f-queme">une.edu/people/luis-f-queme</a></li> </ul>

**Tyler H. Redway, Ph.D.**

Assistant Professor of Anatomy; Director of  
AORTA Program  
[tredway@une.edu](mailto:tredway@une.edu)

- Community outreach impacts on participants and facilitators
- Educational and survey research

**Rebecca J. Rowe, Ph.D.**

Associate Professor  
[rrowe@une.edu](mailto:rrowe@une.edu)

- Medical Education Research

**Mark Schuenke, Ph.D.**

Professor; Associate Chair of the Department of  
Biomedical Science  
[mschuenke@une.edu](mailto:mschuenke@une.edu)

- Anatomical and biomechanical relationships related to lumbopelvic pain
- Peripheral nerve entrapment
- Countermeasures to age-related muscle atrophy and diabetes

**Douglas Spicer, Ph.D., M.MEdL**

Professor  
[dspicer@une.edu](mailto:dspicer@une.edu)

- Innovations in medical education
- Active learning pedagogies in medical education
- Clinical reasoning skills
- **More Information:** [une.edu/people/douglas-b-spicer](http://une.edu/people/douglas-b-spicer)

**Joel M. Talsma, M.S.**

Assistant Clinical Professor  
[jtalsma@une.edu](mailto:jtalsma@une.edu)

- Surgical approaches in pediatric surgery
- Neurovascular anatomy of human joints
- Relationship of fascia and connective tissue in sports related injuries

**Kerry L. Tucker, Ph.D.**

Associate Professor  
[ktucker2@une.edu](mailto:ktucker2@une.edu)

- Primary cilia and pain processing
- Primary cilia and brain development and function
- Mouse models of congenital heart defects
- **Tucker Lab:** [une.edu/people/kerry-l-tucker](http://une.edu/people/kerry-l-tucker)

**Susan Wehry, M.D.**

Director of AgingME, Geriatrics, and Primary Care  
[swehry@une.edu](mailto:swehry@une.edu)

- Post-pandemic growth and recovery
- Cognitive changes with aging
- Optimal engagement of people living with dementia
- Age friendly communities and dementia inclusivity

**Frank Willard, Ph.D.**

Professor  
[fwillard@une.edu](mailto:fwillard@une.edu)

- Neurovascular anatomy of the cervical and lumbosacral spine
- Myofascial and ligamentous support system of the lumbosacral spine and its dysfunction in patients with low back pain

**Scott Wood, Ph.D.**

Associate Professor  
[swood25@une.edu](mailto:swood25@une.edu)

- Mechanobiology
- Microphysiological systems
- Osteoarthritis modeling and cell signaling
- **Wood Lab:** [une.edu/people/scott-t-wood](http://une.edu/people/scott-t-wood)

**Mary Yee, D.O.**

Associate Clinical Professor  
[mhannanyee@une.edu](mailto:mhannanyee@une.edu)

- Retrospective medical chart studies evaluating the efficacy of osteopathic manipulative medicine applied to hospitalized patients

**Additional Information**

Additional research resources for UNE COM medical students:

[une1.sharepoint.com/teams/COM/Research/Resources/SitePages/Resources.aspx](http://une1.sharepoint.com/teams/COM/Research/Resources/SitePages/Resources.aspx)

UNE has several centers and institutes in support of research and scholarship designed to promote interdisciplinary research: [une.edu/research/centers](http://une.edu/research/centers)