



# College of Osteopathic Medicine - Faculty Research Interests 2020

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Faculty	Research Interests
<b>Hywda A. Arafat, MD, PhD, MSc.,MEdL</b> <i>Clinical Professor</i> <a href="mailto:harafat@une.edu">harafat@une.edu</a>	<ul style="list-style-type: none"> <li>• Medical education related to cultural humility, social determinants of health and health care disparities; curricular modifications as tools for the development of both faculty and students</li> </ul>
<b>Kathleen Becker, PhD</b> <i>Assistant Professor</i> <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>• Development and utilization of novel genetic models for the study of disease</li> </ul>
<b>Carol A. Brenner, PhD</b> <a href="mailto:cbrenner1@une.edu">cbrenner1@une.edu</a> <i>Clinical Prof.; Assoc. Dean, Research &amp; Scholarship</i>	<ul style="list-style-type: none"> <li>• Mitochondrial biology   Clinical Research   Reproductive sciences   Infertility  </li> <li>• Rural and underserved medicine   Public Health Research</li> </ul>
<b>Mark Brezinski, MD, PhD, CPT</b> <i>Clinical Professor</i> <a href="mailto:mbrezinski@une.edu">mbrezinski@une.edu</a>	<ul style="list-style-type: none"> <li>• To learn more on Dr. Brezinski’s research interests, please visit:  <a href="https://www.une.edu/people/mark-brezinski">https://www.une.edu/people/mark-brezinski</a></li> </ul>
<b>Ling Cao, M.D., PhD</b> <i>Professor</i> <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> </ul>
<b>Stuart N. Damon, DO, MS</b> <i>Assistant Clinical Professor</i> <a href="mailto:sdamon@une.edu">sdamon@une.edu</a>	<ul style="list-style-type: none"> <li>• Cognitive Load Theory applied to simulation   Asperger autism   Rural medicine</li> </ul>
<b>Russell J. Ferland, PhD,</b> <i>Professor; Chair,</i> <i>Dept. of Biomedical Sciences</i> <a href="mailto:rferland2@une.edu">rferland2@une.edu</a>	<ul style="list-style-type: none"> <li>• Primary cilia in developmental disorders</li> <li>• Genetics &amp; mechanisms of epileptogenesis (epilepsy)</li> </ul>
<b>Diana Goode, PhD</b> <i>Assistant Professor</i> <a href="mailto:dgoode@une.edu">dgoode@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuro-immune interactions in pain   HIV pathogenesis &amp; peripheral neuropathy</li> </ul>
<b>Eliza Grlickova-Duzevik, MD, PhD</b> <i>Assistant Clinical Prof.</i> <a href="mailto:egrlickovaduzevik@une.edu">egrlickovaduzevik@une.edu</a>	<ul style="list-style-type: none"> <li>• Bioinformatics   Neuroscience   Molecular and cellular Biology</li> </ul>
<b>Marilyn R. Gugliucci, MA, PhD, Professor</b> <i>Director of Geriatrics Research</i> <a href="mailto:mgugliucci@une.edu">mgugliucci@une.edu</a>	<ul style="list-style-type: none"> <li>• Learning by Living: Nursing Home Immersion Research   48 Hour Hospice Home Immersion Research   Balancing Act Falls Prevention Research   Virtual Reality Education Research</li> </ul>
<b>Benjamin Harrison, PhD</b> <i>Assistant Professor</i> <a href="mailto:bharrison2@une.edu">bharrison2@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuroplasticity and Genomics</li> </ul>
<b>Jodie Hermann, DO, FACOI, FACP, MBA</b> <i>Asst. Clin. Prof.; Chair, OMM</i> <a href="mailto:jhermann@une.edu">jhermann@une.edu</a>	<ul style="list-style-type: none"> <li>• Osteopathic Manipulation &amp; Osteoarthritis   Osteopathic Manipulation &amp; COPD in Nursing Home Patients   Sub-concussive Head Impacts in Ice Hockey: Post-game considerations</li> </ul>
<b>Selma C. Holden, MD, MPH, MS</b> <i>Assistant Clinical Professor</i> <a href="mailto:sholden1@une.edu">sholden1@une.edu</a>	<ul style="list-style-type: none"> <li>• Medication Assisted Psychotherapy</li> <li>• Prenatal Yoga’s Effects on Maternal Wellness &amp; Mobility</li> </ul>
<b>Karen Houseknecht, PhD, Prof.; Associate Provost, Research&amp;Scholarship</b> <a href="mailto:khouseknecht@une.edu">khouseknecht@une.edu</a>	<ul style="list-style-type: none"> <li>• To learn more about Dr. Houseknecht’s vast research interests, please visit:  <a href="https://www.une.edu/people/karen-l-houseknecht">https://www.une.edu/people/karen-l-houseknecht</a></li> </ul>
<b>Tamara King, PhD</b> <i>Associate Professor</i> <a href="mailto:tking6@une.edu">tking6@une.edu</a>	<ul style="list-style-type: none"> <li>• Mechanisms underlying cancer-induced bone pain</li> <li>• Mechanisms underlying advanced osteoarthritis induced pain</li> </ul>

Please note that the UNE COM faculty listed here are either conducting active research and, if not, are open to discussing their research interests with COM students as well as direct them to someone who shares their research interests. In addition, UNE has several centers and institutes in support of research and scholarship designed to promote interdisciplinary research and also expand student research opportunities, bringing together students, faculty, and partner institutions in pursuit of cooperative goals:  
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Faculty	Research Interests
<b>Meghan May, MS, PhD</b> <i>Professor</i> <a href="mailto:mmay3@une.edu">mmay3@une.edu</a>	<ul style="list-style-type: none"> <li>• Pathogen Evolution &amp; Genomics; Emerging Infectious Diseases   Mechanisms of Infection-mediated Pain   Improved Clinical Diagnostics for Infections &amp; Case Reports in Infectious Disease</li> </ul>
<b>Ian D. Meng, PhD, Prof.; Director of COBRE &amp; Ctr for Excellence in Neuroscience</b> <a href="mailto:imeng@une.edu">imeng@une.edu</a>	<ul style="list-style-type: none"> <li>• Migraine headache; Medication overuse headache</li> <li>• Transformation of migraine headache to chronic daily headache   Chronic Dry Eye Syndrome</li> </ul>
<b>Derek C. Molliver, PhD</b> <i>Professor</i> <a href="mailto:dmolliver@une.edu">dmolliver@une.edu</a>	<ul style="list-style-type: none"> <li>• Signal transduction and proteomics in chronic pain   Control of neuronal response properties through changes in modular signaling complexes   G protein-coupled receptor signaling pathways</li> </ul>
<b>Stacey Pierce-Talsma, DO, MS, FNAOME</b> <i>Associate Dean, Academic Affairs</i>	<ul style="list-style-type: none"> <li>• Osteopathic manipulative medicine   Innovation in medical education   Yoga</li> </ul>
<b>Rebecca J. Rowe, PhD</b> <i>Associate Professor</i> <a href="mailto:rrowe@une.edu">rrowe@une.edu</a>	<ul style="list-style-type: none"> <li>• Medical Education Research</li> </ul>
<b>Mark Schuenke, PhD</b> <i>Professor; Associate Chair, Biomedical Sci. Dept.</i> <a href="mailto:mschuenke@une.edu">mschuenke@une.edu</a>	<ul style="list-style-type: none"> <li>• Anatomical and biomechanical relationships related to lumbopelvic pain   Peripheral nerve entrapment   Countermeasures to age-related muscle atrophy and diabetes</li> </ul>
<b>Kyle R. Scully, PhD</b> <i>Assistant Clinical Professor</i> <a href="mailto:kscully3@une.edu">kscully3@une.edu</a>	<ul style="list-style-type: none"> <li>• Prehospital emergency medicine and natural products</li> </ul>
<b>Ryan M. Smith, DO, MEd, PhD</b> <i>Associate Clinical Prof.; Chief, Psychiatry</i> <a href="mailto:rsmith8@une.edu">rsmith8@une.edu</a>	<ul style="list-style-type: none"> <li>• Medical student/resident physician mental health   Electroconvulsive therapy   Suicide/psychiatric disorders &amp; treatment   Standardized test assessment preparation methods</li> </ul>
<b>Douglas Spicer, PhD, MMEdL</b> <i>Associate Professor</i> <a href="mailto:dspicer@une.edu">dspicer@une.edu</a>	<ul style="list-style-type: none"> <li>• Innovations in medical education   Active learning pedagogies in medical education</li> </ul>
<b>Christoph Straub, PhD</b> <i>Assistant Professor</i> <a href="mailto:cstraub@une.edu">cstraub@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuroscience   Neurophysiology   Microcircuits   Chronic Pain</li> </ul>
<b>Victoria S. Thieme, DO, Clinical Associate Professor; Dir., Clinical Experience</b> <a href="mailto:vthieme@une.edu">vthieme@une.edu</a>	<ul style="list-style-type: none"> <li>• Substance Use Disorders in Rural Clinics   Geriatrics   Inter-professional Work   Nutrition in Older Adults   Movement Therapy with Older Adults   Intellectual Developmental Disabilities   Osteopathy</li> </ul>
<b>Kathryn Thompson, PhD</b> <i>Professor</i> <a href="mailto:kthompson@une.edu">kthompson@une.edu</a>	<ul style="list-style-type: none"> <li>• Cognitive integration of basic and clinical sciences to improve learning and retention</li> <li>• Culinary medicine   Concept mapping, team based learning</li> </ul>
<b>Kerry L. Tucker, PhD</b> <i>Associate Professor</i> <a href="mailto:ktucker2@une.edu">ktucker2@une.edu</a>	<ul style="list-style-type: none"> <li>• Primary cilia and pain processing   Primary cilia and brain development and function   Mouse models of congenital heart defects</li> </ul>
<b>Jenifer Van Deusen, M.Ed., PI ME-PCSS-U Interprof. Education Coord.</b> <a href="mailto:jvandeusen2@une.edu">jvandeusen2@une.edu</a>	<ul style="list-style-type: none"> <li>• Impact of Medication-Assisted Treatment/ Stigmatizing of people with OUD/ Training providers to treat people with OUD/SUD   Interprofessional education and team-based practice</li> </ul>
<b>Susan Wehry, MD</b> <i>Chief of Geriatrics, Primary Care</i> <a href="mailto:swehry@une.edu">swehry@une.edu</a>	<ul style="list-style-type: none"> <li>• Effect of enhanced self-efficacy on optimal aging   Use of digital technology by persons living with dementia   Reframing the physician burnout narrative</li> </ul>
<b>Frank Willard, PhD</b> <i>Professor of Anatomy</i> <a href="mailto:fwillard@une.edu">fwillard@une.edu</a>	<ul style="list-style-type: none"> <li>• Neurovascular anatomy of the cervical &amp; lumbosacral spine   Myofascial &amp; ligamentous support system of the lumbosacral spine &amp; its dysfunction in patients with low back pain</li> </ul>

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