

Zachary C. Lum, DO, FAOA is an Assistant Clinical Professor of Orthopaedic Surgery at the University of California, Davis, specializing in adult hip and knee reconstruction. He serves as the department's Chief Wellness Officer and has held additional leadership roles supporting departmental strategy, education, and community-focused orthopaedic care. His clinical practice centers on primary and revision arthroplasty, with particular interests in complex reconstruction, periprosthetic joint infection, and optimizing outcomes through evidence-based perioperative care.

Dr. Lum's academic work spans arthroplasty outcomes, infection prevention and treatment, spinopelvic and kinematic considerations in total hip and knee arthroplasty, and the practical implications of payment reform, access to care, and health literacy. In parallel, he has contributed to emerging scholarship at the intersection of orthopaedics and artificial intelligence, including the reliability and appropriate use of large language models in education and selection. He has been competitively funded through national and institutional mechanisms, including an AAHKS Fellowship Education and Innovation Program Grant and an OREF/Goldberg Arthritis Research Grant supporting AI-enabled, patient-centered communication in osteoarthritis.

Nationally, Dr. Lum is active in organized orthopaedics and health policy, including service as an AAHKS Health Policy Fellow, AAOS Knee Program Committee member, and leadership within AAHKS Diversity Advisory Board (including Chair) as well as Movement is Life and the International Orthopaedic Diversity Alliance (IODA). He also contributes to the peer-review ecosystem as an Assistant Editor-in-Chief and section editor within the Journal of the American Osteopathic Academy of Orthopaedics and as a reviewer for multiple journals in arthroplasty and orthopaedic surgery. His honors include research and leadership recognition such as the Lee Vander Lugt Leadership Award, repeated "Top 1%" Orthopaedic Surgery Research All-Stars distinction, and multiple awards for scholarly presentations and communication excellence.