



David Fyhrie, Ph.D.

Research/Academic Interests David Fyhrie is a member of the faculty of Orthopaedic Surgery and Biomedical Engineering. His research interests include bone biomechanics; bone remodeling; cartilage mechanical properties; bone cell mechanobiology; bone remodeling; fracture mechanics; and finite element modeling.

Title Professor

Specialty Orthopaedic Surgery, Biomedical Engineering, Research

Department [Orthopaedic Surgery](#)

Division Orthopaedic Research

Education Ph.D., Mechanical Engineering, Stanford University, Stanford CA 1986

B.S., Gonzaga University, Spokane WA 1977

M.S., Stanford University, Stanford CA 1978

Professional Memberships American Society of Biomechanics

Biomedical Engineering Society

Orthopaedic Research Society

Select Recent Publications Fyhrie DP, Christiansen BA. Bone Material Properties and Skeletal Fragility. *Calcif Tissue Int.* 2015 Sep;97(3):213-28.

Symons JE, Fyhrie DP, Hawkins DA, Upadhyaya SK, Stover SM. Modeling equine race surface vertical mechanical behaviors in a musculoskeletal modeling environment. *J Biomech.* 2015 Feb 26;48(4):566-72.

Fyhrie DP, Zuel R. Directional tortuosity as a predictor of modulus damage for vertebral cancellous bone. *J Biomech Eng.* 2015 Jan;137(1).

Amanatullah DF, Williams JC, Fyhrie DP, Tamurian RM. Torsional properties of distal femoral cortical defects. *Orthopedics.* 2014 Mar;37(3):158-62.

Hardisty MR, Kienle DF, Kuhl TL, Stover SM, Fyhrie DP. Strain-induced optical changes in



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demineralized bone. J Biomed Opt. 2014 Mar;19(3):35001.

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