



Julian R. Perks, Ph.D.

Clinical Interests Dr. Perks is a physicist whose clinical interests include stereotactic radiotherapy as well as radiosurgery planning and treatment delivery. In particular, he has been focusing on the commissioning and clinical integration of a new gamma-knife system for the treatment of intracranial lesions. He also is working to expand the department's intensity-modulated radiotherapy (IMRT) capabilities. Dr. Perks's research activities include the comparison of linear accelerator and gamma knife-based radiosurgery procedures, optimizing imaging protocols, and the retrospective analysis of cone beam CR predictive outcome models to develop data for UC Davis. As a researcher, he does not see patients.

Title Physicist

Specialty [Cancer, Radiation Oncology](#)

Department Radiation Oncology

Division Radiation Oncology

Center/Program Affiliation [UC Davis Comprehensive Cancer Center](#)

Address/Phone UC Davis Comprehensive Cancer Center, 4501 X St. G-126 Sacramento, CA 95817
Phone: 800-362-5566

Education Ph.D., University of Birmingham, Birmingham, England, 1996
B.Sc., University of Birmingham, Birmingham, 1993

Select Recent Publications Chen AM, Farwell DG, Luu Q, Donald PJ, Perks J, Purdy JA. Evaluation of the planning target volume in the treatment of head and neck cancer with intensity-modulated radiotherapy: what is the appropriate expansion margin in the setting of daily image guidance? *Int J Radiat Oncol Biol Phys.* 2011 Nov 15;81(4):943-9. Epub 2010 Oct 6.

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