John S. Werner, Ph.D.

Clinical Interests	Dr. Werner studies the neurophysiological computations and mechanisms that mediate human vision, particularly changes in color and spatial vision across the life span and in association with retinal and optic nerve disease. His work has demonstrated adaptive modifications of the visual system response to changes in signals due to aging of the eye's optics and retina. His laboratory has developed state-of-the-art methods for imaging the human retina of the living eye at a cellular scale.
Title	Distinguished Professor
Specialty	Ophthalmology
Department	Ophthalmology and Vision Science
Division	Ophthalmology
Center/Program Affiliation	Eye Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Ophthalmology Clinic-Eye Center, 4860 Y St. Suite 2400 Sacramento, CA 95817 **Phone:** 916-734-6602
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	Ph.D., Psychology, Brown University, Providence RI 1979 M.A., Human Development, University of Kansas, Lawrence KS 1974 B.A., University of Kansas, Lawrence KS 1974
Fellowships	Instituut voor Zintuigfysiologie - TNO (Institute for Perception), Soesterberg, The Netherlands, 1979 Universitat Freiburg, Abteilung fur Neurophysiologie, Freiburg, i, Br., Germany, 1981
Professional Memberships	American Association for the Advancement of Science Association for Research in Vision and Ophthalmology International Colour Vision Society Optical Society of America
Honors and Awards	International Colour Vision Society, Verriest Medal, 2015 Optical Society of America, Fellow?s International Lecture Award, 2012

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John S. Werner, Ph.D.

R&D 100 Award, 2010
Lighthouse International (New York), Pisart Vision Award, 2008
Jules and Doris Stein Research to Prevent Blindness Professorship, 2000
University of Colorado, Ninetieth Annual Distinguished Research Lecture, 1998
Humboldt Research Prize for Senior Scientists in the Natural Sciences, Bonn, Germany, 1994

Select Recent Publications

Werner, J.S. %26amp%3B Chalupa, L.M. (Eds.) The New Visual Neurosciences. Cambridge, MA: MIT Press. 2014.

Werner JS. The Verriest Lecture: Short-wave-sensitive cone pathways across the life span. J Opt Soc Am A Opt Image Sci Vis. 2016 Mar 1;33(3):A104-22.

Schwartz DM, Fingler J, Kim DY, Zawadzki RJ, Morse LS, Park SS, Fraser SE, Werner JS. Phase-variance optical coherence tomography: a technique for noninvasive angiography. Ophthalmology. 2014 Jan;121(1):180-7.

Kim DY, Fingler J, Zawadzki RJ, Park SS, Morse LS, Schwartz DM, Fraser SE, Werner JS. Optical imaging of the chorioretinal vasculature in the living human eye. Proc Natl Acad Sci U S A. 2013 Aug 27;110(35):14354-9.

Panorgias A, Zawadzki RJ, Capps AG, Hunter AA, Morse LS, Werner JS. Multimodal assessment of microscopic morphology and retinal function in patients with geographic atrophy. Invest Ophthalmol Vis Sci. 2013 Jun 26;54(6):4372-84.

Shinomori K, Werner JS. Aging of human short-wave cone pathways. Proc Natl Acad Sci U S A. 2012 Aug 14;109(33):13422-7.

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