



## John S. Werner, Ph.D.

<b>Clinical Interests</b>	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. Dr. Werner clinical and research interests include visual psychophysics.
<b>Title</b>	Distinguished Professor
<b>Specialty</b>	Ophthalmology
<b>Department</b>	Ophthalmology and Vision Science
<b>Division</b>	Ophthalmology
<b>Center/Program Affiliation</b>	<a href="#">Eye Center</a>
<b>Address/Phone</b>	Lawrence J. Ellison Ambulatory Care Center, * Lawrence J. Ellison Ambulatory Care Center, 4860 Y St., Suite 0100 Sacramento, CA 95817
<b>Education</b>	Ph.D., Brown University, Providence, Rhode Island, 1979 B.A., University of Kansas, Lawrence, Kansas, 1974
<b>Fellowships</b>	Instituut voor Zintuigfysiologie - TNO (Institute for Perception), Soesterberg, The Netherlands, 1979 Universitat Freiburg, Abteilung fur Neurophysiologie, Freiburg, i, Br., Germany, 1981
<b>Professional Memberships</b>	American Association for the Advancement of Science Association for Research in Vision and Ophthalmology International Colour Vision Society Optical Society of America
<b>Select Recent Publications</b>	2009 Elliott, S.L., Choi, S.S., Doble, N, Hardy, J.L., Evans, J.W., and Werner, J.S. Role of high-order aberrations in senescent changes in spatial vision. <i>Journal of Vision</i> , 9(2):24,1-16. 2009 Zawadzki, R.J., Choi, S.S., Fuller, A.R, Evans, J.W., Hamann, 8. and Werner, J.S. Cellular resolution volumetric in vivo retinal imaging with adaptive optics - optical coherence tomography. <i>Optics Express</i> , 17:4084-4094. 2008 Choi, S.S., Zawadzki, R.J., Keltner, J.L. and Werner, J.S. Changes in cellular structures



## John S. Werner, Ph.D.

revealed by ultra-high resolution retinal imaging in Publications and Contributions to Jointly Authored Works 12 optic neuropathies. *Investigative Ophthalmology & Visual Science*, 49:2103-2119.

2008 Marmor, M.F., Choi, S.S., Zawadzki, R.J. and Werner, J.S. Visual insignificance of the foveal pit. Reassessment of foveal hypoplasia as fovea plana. *Archives of Ophthalmology*, 126:907-913.

2007 Werner, J.S., Pinna, S. and Spillmann, L.: The brain and the world of illusory color. *Scientific American* (translations published in 15 international editions, and reprinted in *Scientific American Special Issue on Perception*, May 2008 82-88), 296(3):90-95.

© 2015 UC Regents