

## **CURRICULUM VITAE**

### **ISRAEL ABRAMOV**

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Born: 23 June 1938, Bulawayo, S. Rhodesia (Zimbabwe)  
Citizenship: U.S.A.

### **1) HIGHER EDUCATION**

<b>INSTITUTION</b>	<b>DATES</b>	<b>DEGREE AND MAJOR</b>
University College London	1956-1959	LL.B, Laws
University College London	1959-1961	B.A.(Hons.), Psychology
Indiana University	1961-1967	Ph.D., Physiological Psychology
The Johns Hopkins University	1967-1968	USPHS Post-doctoral Fellow, Biophysics (Laboratory of Dr. E. F. MacNichol)

### **2) ACADEMIC EXPERIENCE**

<b>INSTITUTION</b>	<b>DATES</b>	<b>RANK</b>	<b>DEPARTMENT</b>
Indiana University	1960-1961	Teaching Assistant	Psychology
Indiana University	1961-1965	Research Assistant	Psychology
Indiana University	1966-1967	Research Fellow	Psychology
Johns Hopkins University	1967-1968	Post-doctoral Fellow	Biophysics
Rockefeller University	1968-1973	Assistant Professor	Biophysics
Brooklyn College of CUNY	1973-1978	Associate Professor	Psychology
Graduate Center of CUNY	1973-1978	Associate Professor	Experimental Psychology
Rockefeller University	1973-1978	Adjunct Associate Professor	Biophysics
Columbia University	1977-1978	Research Scientist	Division of Artificial Organs College of Physicians & Surgeons
Brooklyn College of CUNY	1978-	Professor	Psychology
Graduate Center of CUNY	1978-	Professor	Cognition, Brain, and Behavior
Rockefeller University	1978-2009	Adjunct Professor	Biophysics
Downstate Medical Center	1979-1984	Lecturer	Pediatrics
Polytechnic University	1984-1990	Faculty	Institute of Imaging Sciences
Brooklyn College of CUNY	1987-	Co-Director	Brooklyn Early Evaluation Program
Brooklyn College of CUNY	1991-	Co-Director	Applied Vision Institute, Applied Science Institute
City University of NY	1993-	Member	Center for Applied Biomedicine & Biotechnology, Division of Neuroscience, Applied Science Coordinating Institute
Graduate Center of CUNY	1997-2012	Professor	Biopsychology & Behavioral Neuroscience
Graduate Center of CUNY	2012 -	Professor	Cognition, Language & Development

### **3) ACADEMIC HONORS AND MEMBERSHIPS IN SCHOLARLY SOCIETIES**

Sir Alfred Beit Scholar at University College London, 1956-1961

Jollowicz Prize, University College London, 1961

Woodrow Wilson Dissertation Year Fellow at Indiana University, 1966-1967

Member Sigma Xi, 1967

USPHS Post-doctoral Fellow, 1967-1968

Member, Developmental Working Group, FDA-NCDRH Workshop on long-term visual health risks of optical radiation, September, 1983

Grants Advisory Committee, The Harry F. Guggenheim Foundation 1988-1998.

Member of technical committee of C.I.E. (TC1-42, on color appearance in peripheral vision).

Optical Society of America

Association for Research in Vision and Ophthalmology

Society for Neuroscience

American Association for the Advancement of Science

Society of Photo-Optical Instrumentation Engineers

Organization for the Study of Sex Differences

### **4) PUBLICATIONS**

De Valois, R. L., Jacobs, G. H. and Abramov, I. (1964) Response of single cells in the visual system to shifts in the wavelength of light. *Science*, 146, 1184-1186.

De Valois, R. L. and Abramov, I. (1966) Color Vision, *Annual Review of Psychology*, 17, 337-362.

De Valois, R. L., Abramov, I., and Jacobs, G. H. (1966) Analysis of response patterns of LGN cells. *Journal of the Optical Society of America*, 56, 966-977.

De Valois, R. L., Abramov, I., and Mead, W. R. (1967) Single cell analysis of wavelength discrimination at the lateral geniculate nucleus in the macaque. *Journal of Neurophysiology*, 30, 415-433.

Abramov, I. (1967) A model of the response patterns of single cells in the macaque lateral geniculate nucleus. Ph. D. Dissertation, Indiana University.

Abramov, I. (1968) Further analysis of the response of LGN cells. *Journal of the Optical Society of America*, 58, 574-579.

Abramov, I. (1968) Mechanisms of color vision. *Visual/Sonic Medicine*, 2, 15-23.

Rosen, P., Levine, M. W., Rossetto, M., and Abramov, I. (1970) A system for controlling the light output of a monochromator by any simple function and for temporally modulating the intensity. *Behavioral Research Methods & Instruments*, 2, 297-300.

Abramov, I. and Levine, M. W. (1972) The effects of carbon dioxide on the excised goldfish retina. *Vision Research*, 12, 1881-1895.

Abramov, I. (1972) Retinal mechanisms of color vision. In M. F. G. Fuortes (Ed.) *Handbook of Sensory Physiology*, Vol VII/2. Ch. 15. Berlin: Springer-Verlag, pp. 567-607.

Abramov, I. and Gordon, J. (1973) Vision. In E. Carterette and M. Friedman (Eds.) *Handbook of Perception*, Vol. 3. Ch. 16, pp. 327-357. New York: Academic Press.

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Levine, M. W., and Abramov., I. (1975) An analysis of spatial summation in the receptive fields of goldfish retinal ganglion cells. *Vision Research*, 15, 777-789.

Abramov, I. and Levine, M. W. (1975) On the lack of lateral inhibition within the receptive fields of goldfish retinal ganglion cells. *Vision Research*, 15, 791-798.

Sirovich, L. and Abramov, I. (1977) Photopigments and pseudo-pigments. *Vision Research*, 17, 5-16.

Abramov, I. and Gordon, J. (1977) Color vision in the peripheral retina. I. Spectral sensitivity. *Journal of the Optical Society of America*, 67, 195-202.

- Gordon, J. and Abramov, I. (1977) Color vision in the peripheral retina. II. Hue and saturation. *Journal of the Optical Society of America*, 67, 202-207.
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- Girvin, J. P., Evans, J. R., Dobbelle, W. H., Mladejovsky, M. G., Henderson, D.C., Abramov, I., Gordon, J. and Turkel, J. (1979) Electrical stimulation of human visual cortex: The effect of stimulus parameters on phosphene threshold. *Sensory Processes*, 3, 66-81.
- Evans, J. R., Gordon, J., Abramov, I., Mladejovsky, M. G., and Dobbelle, W. H. (1979) Brightness of phosphenes elicited by electrical stimulation of human visual cortex. *Sensory Processes*, 3, 82-94.
- Harris, C. M., Hainline, L., and Abramov, I. (1981) A method for calibrating an eye-monitoring system for use with infants. *Behavioral Research Methods & Instruments*, 13, 11-17.
- Abramov, I. (1981) Physiological mechanisms of color vision. *Proceedings of the 4th AIC Congress, Color-81-Berlin*, Berlin West Germany.
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- Hainline, L., Lemerise, E., Abramov, I., and Turkel, J. (1984) Orientational asymmetries in small-field optokinetic nystagmus in human infants. *Behavioral Brain Research*, 13, 217-230.
- Harris, C.M., Abramov, I., and Hainline, L. (1984) Instrument considerations in measuring fast eye movements. *Behavioral Research Methods, Instruments, & Computers*, 16, 341-350.
- Abramov, I., Hainline, L., Turkel, J., Lemerise, E., Smith, H., Gordon, J., and Petry, S. (1984) Rocket-ship psychophysics: assessing visual functioning in young children. *Investigative Ophthalmology & Visual Science*, 25, 1307-1315.
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- Hall, E.C., Gordon, J., Abel, L.A., Hainline, L., and Abramov, I. (2000) Nystagmus waveforms in blindness. *Visual Impairment Research*, 2, 65-73.
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- Abramov, I., and Gordon, J. (2009) Color Vision Panel Tests: A Metric for Interpreting Numeric Analytic Indices. *Optometry and Vision Science*, 86, 146-152.
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- Abramov, I., Gordon, J., Feldman, O., Chavarga, A. (2012) Sex and vision II: color appearance of monochromatic lights. (Highly Accessed) *Biology of Sex Differences* 2012 3:21 <http://www.bsd-journal.com/content/3/1/20>
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Abramov, I. (2013) Vision Deficits in Adults with Down Syndrome. *Journal of Applied Research in Intellectual Disabilities*, 27, 247-263.

**5) PUBLISHED ABSTRACTS** (papers, peer reviewed, presented at scientific conferences)

- De Valois, R. L., Jacobs, G. H., and Abramov, I. (1964) Single-cell analysis of brightness and hue discrimination. *American Psychologist*, 19, 516.
- Abramov, I., Dobbelle, W.H., Evans, J.R., Girvin, J.P., Henderson, D.C., Mladejovsky, M.G., and Turkel, J. (1978) Cortical phosphenes: applications for visual prosthesis. *Investigative Ophthalmology & Visual Science, Supplement*, 17, 175.
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- Harris, C., Hainline, L., Lemerise, E., and Abramov, I. (1985) Infant eye movements: quality of fixations. *Investigative Ophthalmology & Visual Science, Supplement*, 26, 252.
- Bilotta, J. and Abramov, I. (1985) Spatial properties of goldfish ganglion cells. *Investigative Ophthalmology & Visual Science, Supplement*, 26, 117.
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- Bilotta, J., and Abramov, I. (1987) Spatio-spectral interactions of goldfish ganglion cells. *Investigative Ophthalmology & Visual Science, Supplement*, 28, 404.
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