

CURRICULUM VITAE

Vance Zemon, Ph.D.

Ferkauf Graduate School of Psychology
Albert Einstein College of Medicine
Yeshiva University
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Bronx, NY 10461

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EDUCATION

- Oct.'79-Jan.'82 **The Rockefeller University**, New York, NY
Postdoctoral Associate, Ratliff-Hartline Laboratory of Biophysics
Research in visual neuroscience. Training in neurophysiology and quantitative methods (e.g., linear and nonlinear systems analysis).
Adviser: Prof. Floyd Ratliff
- Sept.'76-Sept.'79 **Northeastern University**, Boston, MA
Ph.D., Psychology
Research in experimental sensory and physiological psychology.
Dissertation consisted of psychophysical and electrophysiological studies on the human visual system.
Adviser: Prof. John C. Armington
- Sept.'74-Sept.'76 **Northeastern University**, Boston, MA
M.A., Psychology
Research on sensory-motor systems. Thesis consisted of electrophysiological studies of neural signals preceding saccadic eye movements. Training in learning theory, sensory and physiological psychology.
- Sept.'69-June'73 **Clarkson College of Technology**, Potsdam, NY
(Presently, Clarkson University)
B.S., Physics

PROFESSIONAL HISTORY

- Aug.'92-present Yeshiva University, New York, NY
Ferkauf Graduate School of Psychology
Albert Einstein College of Medicine
Professor of Psychology (Sept.'06-present)
Associate Professor (Aug. '92-Aug'06)
Director, Laboratory of Systems Neuroscience
Basic and clinical research on the visual pathways of the brain:
1) electrogenesis of visual evoked potentials. 2) relations between evoked potentials and visual perception. 3) applications of linear and nonlinear systems analysis techniques. 4) modeling of visual system based on existing physiological and psychophysical data. 5) development of neurodiagnostic tests for neurologic and ophthalmic disorders. 6) developmental studies of the visual system.
Teach graduate courses in *systems neuroscience, physiological psychology, statistics, and perception*. Taught graduate courses in *psychopharmacology* and *fundamentals of disease processes*. Taught undergraduate course in *neurobiology* at Yeshiva College.

Mentor of doctoral candidates in thesis research and member of dissertation committees. Advise graduate students on research design and statistics.

- Oct.'79-present The Rockefeller University, New York, NY
Laboratory of Biophysics
Adjunct Faculty (Aug.'92-present)
Assistant Professor (July'85-July'92)
Adjunct Assistant Professor (Jan.'83-Jun.'85)
Research Associate (Feb.'82-Dec.'82)
Postdoctoral Associate (Oct.'79-Jan.'82)
Research in all of the areas listed above.
Jointly taught graduate course in neuroscience.
- Mar.'99-present Nathan Kline Institute for Psychiatric Research, Orangeburg, NY
Cognitive Neuroscience and Schizophrenia Program
Visiting Scientist
- July'03-present Blythedale Children's Hospital, Valhalla, NY
Institutional Review Board Member
Scientific Advisory Board Member
- Jan.'96-July'96 New Jersey Institute of Technology
Department of Biomedical Engineering
Adjunct Professor
- Feb.'95-Dec.'95 New Jersey Medical School, UMDNJ, Newark, NJ
Department of Neurosciences
Guest Investigator
- June'87-July'02 Neuroscientific Corporation, Farmingdale, NY
Diopsys Corporation, Metuchen, NJ
Scientific Consultant
- Jan.'88-May'94 New School for Social Research, New York, NY
Department of Psychology
Adjunct Faculty
Taught a graduate course in physiological psychology.
- Jan.'85-May'93 Columbia University, College of Physicians and Surgeons, New York, NY
Harkness Eye Institute, Dept. of Ophthalmology
Visiting Associate Research Scientist
Developed a psychophysical laboratory for neuro-ophthalmic testing.
- Sept.'80-Oct.'85 The Lighthouse Inc., New York, NY
Department of Research
Consulting Scientist
Developed psychophysical techniques to study suprathreshold contrast perception in normal subjects and ophthalmic patients.
- Feb.'83-June'83
Feb.'85-June'85 Hunter College, City University of New York, New York, NY
Department of Psychology
Adjunct Assistant Professor
Taught undergraduate and graduate level courses in *Sensation and Perception* and *Physiological Psychology*. Thesis advisor to doctoral candidates.
- Sept.'76-June'79 Northeastern University, Boston, MA
Department of Psychology
Lecturer

Taught *Introductory Psychology, Sensation and Perception, Sensation and Perception Laboratory*, and *Senior Seminar*.

- Aug.'78-Dec.'78 Wrentham State School, Wrentham, MA
Department of Psychology
Consulting Psychologist
Performed psychological evaluations of mentally retarded clients.
- Feb.'78-June'78 Commonwealth of Massachusetts
Dept. of Mental Health
Qualified Mental Retardation Professional
Member of *Independent Professional Review Team*. Evaluated client care and behavioral programs at the Wrentham State School.
- Sept.'74-Sept.'76 Northeastern University, Boston, MA
Department of Psychology
Research Fellow
Conducted psychophysical and physiological research on the visual and oculomotor systems in humans.
- June'73-June'74 Neurocommunication Laboratories, Inc., Danbury, CT
Research Scientist
Studied psychophysiological responses to auditory and visual stimuli.

HONORS / RECOGNITION, AND MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Fellow, Association for Research in Vision and Ophthalmology, 2010
U.S. PHS Research Service Award, 1979
New York State Regents Scholarship, 1969

Labe Scheinberg Award for Best Neurorehabilitation Platform Presentation,
Consortium of Multiple Sclerosis Centers Annual Conference,
Washington, D.C. Authors: Foley, F.W., Zemon, V., Campagnolo, D.,
Devitt, M., Tyry, T., Marrie, R., Cutter, G., Sipski, M.L., Vollmer, T.
"The Epidemiology of Sexual Dysfunction in Multiple Sclerosis in the United States."

Past or Present Membership:

American Psychological Association
American Statistical Association
Association for Research in Vision and Ophthalmology
International Society for Clinical Electrophysiology of Vision
New York Academy of Sciences
Optical Society of America
Sigma Xi, National Scientific Research Society
Society for Neuroscience

Chair, Program Committee for Visual Neurophysiology, *Association for Research in Vision and Ophthalmology*, 2004-2005
Member, Program Committee for Visual Neurophysiology, *Association for Research in Vision and Ophthalmology*, 2002-2005
Editor, *Electrical and Magnetic Activity Section, International Journal of Neuroscience*, 1990-1992
Member, Advisory Board, *International Journal of Neuroscience*, 1992-present
Member, Consortium Committee, *Visual Disabilities Research Foundation*, 1994
Moderator, *Annual Meeting of Association for Research in Vision and Ophthalmology*, 1996, 2002, 2007
Reviewer, *National Science Foundation*

Reviewer, *City University of New York PSC Research Award Program*
Consulting Editor, *Clinical Vision Sciences*
Consulting Editor, *Documenta Ophthalmologica*
Consulting Editor, *Electroencephalography and Clinical Neurophysiology*
Consulting Editor, *Experimental Brain Research*
Consulting Editor, *Investigative Ophthalmology and Visual Science*
Consulting Editor, *Journal of the Optical Society of America*
Consulting Editor, *Journal of Vision*
Consulting Editor, *Life Sciences Journal*
Consulting Editor, *Progress in Neuro-Psychopharmacology & Biological Psychiatry Review*
Consulting Editor, *Psychophysiology*
Consulting Editor, *Optometry and Vision Science*
Consulting Editor, *Schizophrenia Bulletin*
Consulting Editor, *The World Journal of Biological Psychiatry*
Consulting Editor, *Visual Neuroscience*
Consulting Editor, *Vision Research*

RESEARCH SUPPORT

Principal Investigator on funded project from Ross Products Division of Abbott Laboratories
"Visual Evoked Potentials Among Low-Birth-Weight Infants Fed Formula with or without Long-Chain-Polyunsaturated Fatty Acids"
April 1, 1997 – December 31, 1999

Principal Investigator on funded project from Ross Products Division of Abbott Laboratories
"Electrophysiological Study of Visual Development in Full-term Infants: Effects of Long-Chain Fatty Acid Supplements in Formula Compared to Breast Milk and Formula without Supplements."
Jan. 1, 1996 - Dec. 31, 1997

Principal Investigator on grant from the National Eye Institute of the National Institutes of Health (EY02439) "Visual Stimulator/Data Analyzer for Clinical Research."
Jan. 1, 1986 - June 30, 1988

Investigator and Consultant on several grants from the National Institutes of Health.
Feb. 1, 1982 - present

Public Health Service Postdoctoral Training Grant
Oct. 1, 1979 - Jan. 31, 1982

INVITED PRESENTATIONS

American Academy of Clinical Neurophysiology, Boston, MA
Association of Community Neurologists, Toronto, Canada
Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL
Brooklyn College of the City University of New York, Department of Psychology, Brooklyn, NY
Contact Lens Association of Ophthalmologists, Annual Meeting, Las Vegas
Contact Lens Association of Ophthalmologists, Annual Meeting, New Orleans
Eastern Association of Electroencephalographers, Quebec, Canada
IEEE Engineering and Medicine in Biology Society, Annual Meeting, Los Angeles
IEEE Engineering and Medicine in Biology Society, Annual Meeting, Chicago
IEEE Engineering and Medicine in Biology Society, Annual Meeting, Boston
IEEE Regional Control Conference, Brooklyn, NY
Hunter College of the City University of New York, Department of Psychology, New York, NY
Mount Sinai Medical Center, Department of Neurology, New York, NY
Mount Sinai Medical Center, Neuroscience Program, New York, NY
New Jersey Institute of Technology, Sigma Xi Lecture, Newark, NJ
New York Academy of Medicine, Glaucoma III Symposium, New York, NY

New York College of Podiatric Medicine, Neurophysiology Lecture, New York, NY
New York Hospital-Cornell Medical Center, Department of Neuroscience and Neurology, New York, NY
New York University, Department of Psychology, New York, NY
North Shore University Hospital-Cornell Medical College, Department of Ophthalmology
Northeastern University, Department of Psychology, Boston, MA
Optical Society of America, Annual Meeting, Portland, OR
Rockefeller University, Hospital Lecture Series, New York City
Rutgers University, Center for Molecular and Behavioral Neuroscience, Newark, NJ
Rutgers University, Department of Biomedical Engineering, Piscataway, NJ
Smith Kettlewell Institute for the Visual Sciences, San Francisco
State University of NY Downstate Medical Center, Department of Neurology, Bklyn, NY
State University of NY at Stony Brook, Department of Psychology, Stony Brook, NY
University of Alabama, Birmingham, AL, Visiting Scholar Program, College of Optometry
University of Basel, Department of Ophthalmology, Switzerland
University of Medicine and Dentistry of New Jersey, Functional MRI Group, Newark, NJ
West Virginia University, Neuroscience Seminar Series, Morgantown, WV
Yale University School of Medicine & VA Medical Center, West Haven, CT
Yeshiva University, Ferkauf Graduate School of Psychology, Bronx, NY

BIBLIOGRAPHY

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- Green, M., Corwin, T. and Zemon, V.: Orientation-specific masking and two-dimensional Fourier analysis. *Association for Research in Vision and Ophthalmology*, 1976, 18.
- Green, M., Corwin, T. and Zemon, V.: Checkerboards and color aftereffects. *Science*, 1977, **198**, 207-210.
- Zemon, V. and Armington, J.: Cerebral potentials preceding saccadic eye movement. *Eastern Psychological Association, 48th Annual Meeting*, 1977, 32.
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- Zemon, V., Kaplan, E. and Ratliff, F.: Bicuculline enhances a negative component and diminishes a positive component of the visual evoked cortical potential in the cat. *Proc. Nat. Acad. Sci.*, 1980, **77**, 7476-7478.
- Zemon, V. and Ratliff, F.: Intermodulation responses in the visual evoked potential. *J. Opt. Soc. Amer.*, 1981, **71**, 1617.
- Ratliff, F. and Zemon, V.: Some new methods for the analysis of lateral interactions that influence the visual evoked potential. *Ann. N.Y. Acad. Sci.*, 1982, **388**, 113-124.
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- Conte, M., Zemon, V., Camisa, J. and Milkman, N.: Comparing psychophysical and VEP contrast sensitivity functions. *Supplement to Invest. Ophthal. Vis. Sci.*, 1983, **24**, (3), 47.
- Zemon, V., Camisa, J., Conte, M., Ratliff, F. and Milkman, N.: Orientation interactions in human vision. *Supplement to Invest. Ophthal. Vis. Sci.*, 1983, **24**, (3), 188.

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- Zemon, V. and Pinkhasov, E.: Dichoptic visual evoked potentials and nonlinear mechanisms in human vision. *J. Opt. Soc. Amer.*, 1983, **73**, 1923-1924.
- Victor, J.D. and Zemon, V.: Two distinct local contrast mechanisms in the VEP. *Supplement to Invest. Ophthalm. Vis. Sci.*, 1984, **25** (3), 35.
- Camisa, J. and Zemon, V.: The absence of the oblique effect at suprathreshold contrasts. *Supplement to Invest. Ophthalm. Vis. Sci.*, 1984, **25** (3), 180.
- Zemon, V. and Brodie, S.: What is the role of the pattern in the "pattern electroretinogram"? *Supplement to Invest. Ophthalm. Vis. Sci.*, 1984, **25** (3), 290.
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- Victor, J.D. and Zemon, V.: Separation of components of the pattern VER using complex visual textures. *Proceedings of the Sixth Annual Conference of the IEEE Engineering in Medicine and Biology Society*, 1984, 420-425.
- Zemon, V.: The VEP: analysis of functional subsystems in the brain. *Proceedings of the Sixth Annual Conference of the IEEE Engineering in Medicine and Biology Society*, 1984, 426-431.
- Zemon, V. and Ratliff, F.: Intermodulation components of the visual evoked potential: responses to lateral and superimposed stimuli. *Biol. Cybernetics*, 1984, **50**, 401-408.
- Ratliff, F. and Zemon, V.: Visual evoked potentials elicited in normal subjects and in epileptic patients by windmill-dartboard stimuli. In: *Evoked Potentials II*, R. Nodar and C. Barber, eds., Butterworth Publishers, Woburn, Mass., 1984, pp. 251-259.
- Camisa, J., Zemon, V. and Conte, M.: Contrast Matching and temporal frequency. *Supplement to Invest. Ophthalm. Vis. Sci.*, 1985, **26** (3), 138.
- Zemon, V., Conte, M., Jindra, L. and Camisa, J.: Evoked potential estimates of temporal filters in the human visual system. *Proceedings of the Seventh Annual Conference of the IEEE Engineering in Medicine and Biology Society*, 1985, 431-436.
- Victor, J.D. and Zemon, V.: The human visual evoked potential: analysis of components due to elementary and complex aspects of form. *Vision Res.*, 1985, **25**, 1829-1842.
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Zemon, V., Camisa, J. and Conte M.: Acute and chronic effects of alcohol on visual evoked potentials. *Topical Meeting on Noninvasive Assessment of the Visual System, Opt. Soc. Amer.*, 1986, MC4-1-MC4-4.

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Zemon, V., Conte, M. and Camisa, J.: Effects of contrast on temporal filters in the human visual system. *Proceedings of the Ninth Annual Conference of the IEEE Engineering in Medicine and Biology Society*, 1987, 0963-0965.

Victor, J. D., Conte, M. M., and Zemon, V.: Visual evoked potential (VEP) manifestations of abnormal neural interactions in patients with epilepsy. *International Society for the Clinical Electrophysiology of Vision*, 1988, Meeting in Sarasota, Florida.

Zemon, V., Gordon, J. and Welch, J.: Asymmetries in ON and OFF visual pathways of humans revealed using *contrast-evoked* cortical potentials. *Visual Neuroscience*, 1988, **1**, 145-150.

Zemon, V. and Gordon, J.: Spatial tuning characteristics of functional subsystems in the visual pathways of humans. *Supplement to Investigative Ophthalmology and Visual Science*, 1988, **29**, 297.

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Jindra, L. F. and Zemon, V.: Contrast sensitivity testing: A more complete assessment of vision. *J. Cataract Refract. Surg.*, 1989, **15**, 141-148.

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Maccabee, P. J., Amassian, V. E., Cracco, R. Q., Zemon, V., Rudell, A. and Eberle, L.: Suppression of chromatic and achromatic letter perception by magnetic coil stimulation of human visual cortex. *Abstracts of Society for Neuroscience*, 1989, **15** part 1, 121.

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Mittl, R. N., Lopez, R. and Zemon, V.: Contrast sensitivity after successful retinal detachment repair. *Investigative Ophthalmology and Visual Science*, 1990, **31/4**, 26.

Prünke, A., Zemon, V. and Gordon, J.: Temporal properties of central foveal pathways in humans studied using visual evoked potentials (VEPs). *Investigative Ophthalmology and Visual Science*, 1990, **31/4**, 396.

Zemon, V., Gordon, J., Greenstein, V., Holopigian, K. and Seiple, W.: Properties of chromatic and luminance channels measured electrophysiologically in humans. *Investigative Ophthalmology and Visual Science*, 1990, **31/4**, 263.

Maccabee, P. J., Amassian, V. E., Cracco, R. Q., Cracco, J. B., Rudell, A. P., Eberle, L. P. and Zemon, V.: Magnetic coil stimulation of human visual cortex: Studies of perception. In: *Magnetic Motor Stimulation: Basic Principles and Clinical Experience (EEG Suppl. 43)*, W.J. Levy, R.Q. Cracco, A.T. Barker and J. Rothwell, eds., Elsevier Science Publishers, B. V., 1991, pp. 111-120.

Ladenheim, B., Zemon, V. and Gordon, J.: Interhemispheric transfer of visual information: Steady-state VEP measures. *Investigative Ophthalmology and Visual Science*, 1991, **32/4**, 909.

Zemon, V., Siegfried, J. and Gordon, J.: Magno and Parvo pathways in humans studied using VEPs to luminance and chromatic contrast. *Investigative Ophthalmology and Visual Science*, 1991, **32/4**, 1033.

Grose-Fifer, J., Zemon, V. and Gordon, J.: The development of Magno and Parvo pathways in human infants investigated using the sweep VEP. *Investigative Ophthalmology and Visual Science*, 1991, **32/4**, 1045.

Conte, M., Victor, J., Labar, D., Solomon, G., Carson, D. and Zemon, V.: Effects of adjuvant gabapentin therapy on visual evoked potentials in refractory epilepsy. *Third IBRO World Congress of Neuroscience*, Montreal, 1991.

Sokol, S., Zemon, V. and Moskowitz, A.: Development of lateral inhibitory interactions in the infant visual system. *Visual Neuroscience*, 1992, **8**, 3-8.

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Zemon, V., Pinkhasov, E. and Gordon, J.: Models of human binocular vision assessed neurophysiologically and psychophysically. *IEEE Proceedings of the 1st Regional Control Conference*, 1992, 68-72.

Zemon, V., Gordon, J., Siegfried, J. and Lam, C.: The effects of light adaptation on luminance and chromatic channels in the human visual system measured electrophysiologically. *Investigative Ophthalmology and Visual Science*, 1992, **33/4**, 833.

Hartmann, E.E., Hitchcox, S.M. and Zemon, V.: Development of pattern responses to contrast-increment and decrement stimuli in infants: A VEP measure of functional subsystems. *Investigative Ophthalmology and Visual Science*, 1992, **33/4**, 1351.

Prünke-Glowazki, A. and Zemon, V.: Sweep-VEP: a new method for objective visual assessment in small children. *Klinische Monatsblätter für Augenheilkunde*, 1993, **202**, 422-424.

Zemon, V., Pinkhasov, E. and Gordon, J.: Electrophysiological tests of neural models: Evidence for nonlinear binocular interactions in humans. *Proc. Natl. Acad. Sci. USA*, 1993, **90**, 2975-2978.

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- Zemon, V., Eisner, W. and Gordon, J.: Transient VEP measures of visual development in children. *Investigative Ophthalmology and Visual Science*, 1994, **35/4**, 2415.
- Hu, Z., Meyer, A.U., Zemon, V. and Haupt, E.J.: Modeling of human visual system dynamics: A visual evoked potential study. *Proceedings of the International Federation of Automatic Control (IFAC) Symposium: Modeling and Control in Biomedical Systems*, Galveston, Texas, 1994, 513-514.
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- Zemon, V., Mehta, A.D., Schroeder, C.E. and Gordon, J.: Parallel pathways in humans and monkeys: A VEP study. *Investigative Ophthalmology and Visual Science*, 1995, **36/4**, 3165.
- Zemon, V., Schneider, S., Gordon, J. and Eisner, W.: Lateral interactions within ON and OFF pathways: A VEP analysis. *Investigative Ophthalmology and Visual Science*, 1996, **37/3**, S446.
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- Zemon, V., Buckley, S.W., Fitzgerald, K.M., Gordon, J., Hartmann, E.E., Meyer, A. and Montalto, M.B.: A swept-parameter transient visual evoked potential (VEP) technique for the study of visual development. *Investigative Ophthalmology and Visual Science*, 1997, **38/3**, S992.
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- Hartmann, E.E., Zemon, V., Buckley S.W., Fitzgerald, K.M., Gordon J., Montalto M.B.: Visual evoked potential (VEP) estimates of spatial acuity in 4-month-old infants: A new swept-parameter technique. In *Vision Science and Its Applications, OSA Technical Digest Series (Optical Society of America)*, Washington DC, 1998, **1**, 154-157.
- Riddell, P.M., Wilkins, A., Zemon, V., Gordon, J., Hainline, L.: Effect of coloured lenses on the visual evoked response in photophobic children. *Investigative Ophthalmology and Visual Science*, 1998, **39/4**, S181.
- Zemon, V., Buckley, S.W., Fitzgerald, K.M., Gordon, J., Hartmann, E.E., Montalto, M.B.: Development of spatial vision: An objective visual evoked potential measure. *Investigative Ophthalmology and Visual Science*, 1998, **39/4**, S183.
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