

Connecting Optometry with Neuroscience

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page 1 of 5			
Education	1977 – 1981	University of Illinois Major – Statistics	Champaign, IL
	1981 – 1983	Illinois College of Optometry Bachelor of Science in Visual Science (B.S.V.S.)	Chicago, IL
	1981 – 1985	Illinois College of Optometry Doctorate in Optometry (O.D.)	Chicago, IL
Professional Experience	1984 – 1984	Minneapolis Society for the Blind Low Vision Externship with Russ Osnes, O.D.	Minneapolis, MN
	1985 – 1987	Ft. Lauderdale Eye Institute Staff Optometrist	Ft. Lauderdale, FL
	1988 – 1989	Sunrise Rehabilitation Institute Consultant for Brain Injured Patients	Sunrise, FL
	1986 – 1989	Eye Contact, Private Practice Emphasis on Optometric Rehabilitation for Brain Development	Coral Springs, FL
	1988 – 1991	Schwartzman-Steinberg Low Vision Clinic Director of Macular Degeneration Clinic	Ft. Lauderdale, FL
	1992 – present	 The Mind-Eye Connection, now Mind-Eye Institute Emphasis on the Diagnosis, Treatment and Rehabilitation of Patients with: Traumatic Brain Injury Autism and Developmental Delay Processing and Learning Difficulties 	Northbrook, IL
	2001 – present	Consultant in Optometric Litigation	Chicago, IL
	2012 – present	Clinical Associate Professor at Western University of Health S	ciences Pomona, CA
	2020 -2022	Hosted Interns from Midwestern University Optometry School	Downers Grove, IL
Featured/Mentioned in Books		ed in a Book "The Ghost in My Brain: How a Concussion Stole r and How the New Science of Brain Plasticity Helped Me Get It Viking Publishers 2015, ISBN 978-0525426561	ny Life
	2019Discus2020Mentio2021Mentio2021Discus2023Intervi2024Sex w	ned in New York Times Best Seller "The Brain's Way of Hea Norman Doidge, Viking-Penguin Publishers 2015, ISBN-13: sed on pg. 381 in 2 nd Edition of "Outsmarting Autism" by Patrici ned in "Just Give Me the Road", Anne Marie Romer ISBN-13: ned in "Are You Drowning? Overcoming in the Midst of Trauma Jenna Shotmeyer ISBN-13: 978-0578982427 sed as part of a brain injury protocol in "The Silent Epidemic: W Should Know About Brain Injury" by Mark John Condon ISBN ewed for All in the Mind, Lynne Malcolm ith a Brain Injury mentions the Ghost in My Brain wledged as helping lessen symptoms in the book People, Proc	978-0143128373 a Lemer 978-1970063486 a and Loss", /hat Everyone 978-1664153028
Languages	English (Primar French (Fluent) Greek (Convers Spanish (Minima	ational)	



Connecting Optometry with Neuroscience

page	20	of 5

SOME RECENT PRESENTATIONS Brain Injury

Alzheimer's Neurology Cardiology Ophthalmology

Neuro-Optometry

•	Inclusion of Brain Mapping and Retinal Neuromodulation in Eye Car	e Policy	Los Angeles, CA
•	Shedding Light on the Connection between Retinal Circuitry & Brain (Virtual N20 Neuroscience summit, writing policy for G20 Leaders)		Saudi Arabia
•	Influencing Mental Health Through an Overlooked Mind-Eye Conne	ction Buer	nos Aires, Argentina
•	Neuroplasticity of Visual Processing	Madrid ar	nd Barcelona, Spain
•	North Carolina's Family Physician's Weekend, - Neuro-Optometry and Concussion	ons	Asheville, NC
•	93 rd Annual American Congress of Rehabilitative Medicine (ACRM) The Neurological Effect of Lenses and Puzzles on Brain Plasticity		Chicago, IL
•	12 th Annual Congress for Brain Mapping and Therapeutics , Chairperson Ocular Measurements as Novel Diagnostic and Therapeutic Tools	in Brain F	Los Angeles, CA unction
•	Lutheran General Hospital Rehabilitation Department See with Yo	ur Ears	Park Ridge, IL
•	World Congress on NeuroTherapeutics: Dilemmas, Debates & Discussions (DDD	N)	Basel, Switzerland
•	Behavioral Optometry Academy Foundation The Importance of Having a Solid Mind-Eye Connection		Maintz, Germany
•	Cedars-Sinai Medical Center Retinal Stimulation as a means of neuromodulation	We	est Hollywood, CA
•	2 nd International Conference on Neurology and Therapeutics Non-invasive assessment and treatment of autonomic function		Chicago, IL
•	10 th Annual Congress for Brain Mapping & Image Guided Therapy Unexpected effects of selective retinal stimulation on metabolism		Baltimore, MD
•	3 rd International Conference on Clinical and Experimental Ophthalm The effect of retinal stimulation on internal visualization systems	ology	Chicago, IL
•	1st International Symposium on Deep Brain Connectomics Effects on deep brain circuitry by modulation of retinal signals	Clermont-F	Ferrand, France
•	9 th Annual World Congress for Brain Mapping & Image Guided The Non-invasive assessment and treatment of autonomic function	ару	Toronto, CAN
•	1st International Conference on Clinical Research in Cardiology Overlooked effects of ambient lighting on cardiovascular disease	Sa	n Francisco, CA
	ICOO 2024: XVIII International Conference on Ophthalmology and Limbic Involvement in Visual Processing	Optometry	Venice, Italy
•	6 th International Congress of Behavioral Optometry A Novel Contribution to the Optometric Rehabilitation of Amblyopia	I	Pomona, CA
•	Society for Applied Neuroscience Clinical Applications of the Neurological Aspects of Lenses		Seville, Spain
•	Illinois Brain Injury Foundation The Mind-Eye Connection: How TBI affects Daily Function		Chicago, IL
•	International Neuro-Optometric Rehabilitation Association Testing of the Ignored Retino-Collicular Pathway	Lo	ong Beach, CA
•	International Occupational Therapy Convention Occupational Therapy and Neuro-Optometry Together		Athens, Greece

 French Optometry Students – Guest Lecturer Paris, France Beyond Traditional Vision Care



Connecting Optometry with Neuroscience

page 3 of 5	• Int	ernational Congress of Optometry	Melbourne, Australia
RECENT PRESENTATIONS		otometry: the Juggling of Sensory and Motor Systems Invitational Symposium The Z-Bell Test Auditory and Visual Linkage	s Skive, Denmark
Autistic and Learning Issues	• Th • Kid • Lu	tism One Awareness & Attention: How To Use Visual Clues In Autis e Mind-Eye Your Child's Window to the World ds on the Move, Teaching Professionals about Brain Development theran General Hospital Effects of Attention Deficit Disorder in Every ayslake High School Visualization and Reading	Park City, UT Orem, UT
Low Vision	• Ida	e Breakers Retirement Community Learning to Live with Macular De aho Commission for the Blind and Visually Impaired Neuro-Optometry's Role in Visual Rehabilitation	Boise, ID
Mental Health Pharmacology Public Health	• Dis • We Th • Ple He	lind Service Association Enhancing Peripheral Vision in Macular Deg scovery Low Vision Conference A New Way of Seeing with Macular I orld Pharma Global Virtual Summit on Pharmaceutical and Novel Dru e Effect of Retinal Neuromodulation on Brain Activity enary Speaker European Public Health Conference: Non-invasively I ealth with Innovations in the Central Nervous System via Retinal Neu- ome Base, Inc. Impact of the Eye on Mental Health:	Degeneration Chicago, IL Ig Delivery Systems Virtual mproving Public
AWARDS		lping Veterans Enhance their Mind-Eye Connection	Boston, MA
		Founding Fathers Award from the Neuro-Optometric Rehabilitation As	ssociation
		Theia Award for Innovation from Women in Optometry	
		Golden Axon Award for Leadership from Society for Brain Mapping &	
	2024 E	Best Presentation Award at XVIII International Conference on Ophtha	lmology and Optometry
PUBLICATIONS	2002	Open Your Eyes and Listen Book for Parents & Teachers explaining how the eyes are connected to more than eyesight	Carrington Press, Inc.
	2004 2004	<u>An Insight to Vision</u> Text and medical illustrations encompassing how new neuroscience research affects visual pathways <u>Abre los Ojos y Escuche</u> (Spanish translation)	Carrington Press, Inc. Carrington Press, Inc.
	2007	Neuro-Optometric Diagnosis, Treatment and Rehabilitation following Traumatic Brain Injuries. Zelinsky, D. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , February 2007, Vol. 18:1, p 87-107	Elsevier
	2008	Diagnostic neuron-optometrique prise en charge et readaptation après les traumas craniens, La Revue D'Optometrie, No. 25, Avril 2008, ISSN 1632-806X	Optometric Society, France
	2010	Brain Injury Rehabilitation: Cortical and Subcortical Interfacing via Retinal Pathways. PM & R, September 2010, Vol 2 (9) p. 852-857	Elsevier
	2012	fMRI Analysis of Three Concurrent Processing Pathways, Functional Magnetic Resonance Imaging - Advanced Neuroimaging Aj Rakesh Sharma (Ed.), May, 2012, ISBN: 978-953-51-0541-1 imaging-advanced- neuroimaging-applications/fmri-analysis-of-three-concurrent-proce	
	2014	Auditory/Visual Integration Assessment & Treatment in Brain Inju Traumatic Brain Injury, Dr. Farid Sadaka (Editor), ISBN: 978-953-5 Available from http://www.intechopen.com/books/traumatic- brain-	51-1222-8,
		visual-integration-assessment-and-treatment-in-brain-injury-rehabi	
	2017	Neuromodulation via Retinal Stimulation, Textbook of Advanced Neurophotonics and Brain Mapping. Drs. Yu Chen and Babak Kate Taylor Francis ISBN 13: 9781482236859/	eb (Editors),
	2017	The Emerging Field of Neuro-Optometry Provides a Synergistic Effe Ophthalmology Remedy. 2017; 2:1075 http://remedyoa.com/pdfs_folder	
1414 7	echny Ro	ad, Northbrook, IL 60062 • P: (847) 501-2020 • F: (847) 501- © 2025 Mind-Eye Institute • www.mindeye.com	2021



Connecting Optometry with Neuroscience

page 4 of 5	2019 Collaboration and Coordination, chapter in Patrick Quaid's book, pp 55-60. Learning to See=		
PUBLICATIONS (continued)	Seeing to Learn ISBN 13: 978-1999059224 2019 Computer Vision Conference, Advances in Computer Vision pp 564–579 Elliott C, Putnam, C Zelinsky D, et al, Using the Z-bell SM Test to Remediate Spatial Deficiencies in Non-Image- Forming Retinal Pathways		
	2021 Morris K, Nami M, Bolanos JF, et al. Neuroscience20 (BRAIN20, SPINE20, and MENTAL20) Health Initiative: A Global Consortium Addressing the Human and Economic Burden of Brain, Spine, and Mental Disorders Through Neurotech Innovations and Policies. Journal of Alzheimer's Disease. 2021;83(4):1563-1601. doi:10.3233/JAD-215190		
	2021 How Eyeglasses Impact the Brain, Chapter 12 in Concussion Discussions, Edited by Amy . Zellmer and Shane Steadman ISBN13: 9781736632000		
	2022 Nami, M., et al., A Proposed Brain-, Spine-, and Mental- Health Screening Methodology (NEUROSCREEN) for Healthcare Systems Position of the Society for Brain Mapping and Therapeutics. J. Alzheimers Dis, 2022. 86(1): p. 21-42.		
	2023 Total War on PTSD, Chapter 30, p. 363-382. Southern Arizona Press, edited by Lieutenant Courtenay Nold. SBN-13: 978-1960038418		
	2024 Pierce, S., et al., EPIC Technique Spinal Procedure Improves Ocular Motion and Dizziness by Resolving Cranial Nerve VI Palsy. Acta Sci Neurol, 2024. 7(7): p. 3-10.		
	 2024 Retinal Neuromodulation as an Influence on Brain Function by Applying Nanoneuroscience Discoveries Chapter 40 Springer Publishers of Textbook 2nd edition of the Textbook of Nanoneuroscience and Nanoneurosurgery ISBN 978-1439849415 		
RESEARCH	2005 U.S. Navy Optometry Research Project led by Dr. Chidi Kena and Dr. Suzanne Krause		
Learning Difficulties	regarding scotopic sensitivity in Naval recruits 2005 – present The Effects of Retinal Stimulation on Auditory Localization		
PROFESSIONAL MEMBERSHIPS	Life Member of MENSA 1985 – present Member of Optometric Extension Program (O.E.P.)		
	1989 – present (Fellowship in 2010) Charter Member of the Neuro-Optometric Rehabilitation Association (N.O.R.A)		
	2008 – 2021 Community Leader for the Society for Neuroscience (SFN) NeurOnline		
	2009 – 2021 Member of the American Association for the Advancement of Science (AAAS) 2009 – present Board Member of the Society for Brain Mapping and Therapeutics worldbrainmapping.org		
	2011 – reinstated as a Fellow Member of Optometrists in Vision Development and Rehabilitation		
	(F.O.V.D.R.) Originally earned in 1989 as (F.C.O.V.D. – name changed due to COVID-19 2013 – present Member of the American Optometric Association		
	2023-2024 – President of the Society for Brain Mapping and Therapeutics		
PROFESSIONAL ACTIVITIES	American Institute of Biological Sciences Scientific Peer Advisory and Review Services for the Department of Defense Congressionally Directed Medical Research and Development Programs		
Grant Reviewer Traumatic	2007 Clinical Management Panel Peer Review of the Investigator Initiated and New Investigator Proposals for the Extramural Traumatic Brain Injury Research Program		
Brain Injury	2008 Clinical Treatment and Rehabilitation Panel Peer Review of the Multidisciplinary Research Consortium Proposals for the Extramural Traumatic Brain Injury Research Program		
	2009 Blast Peer Review Panel for the Defense Medical Research Program's Intramural Applied Research and Advanced Technology Development		
	2014 Screening tools for mild Traumatic Brain Injury		
Grant Reviewer	2008 Eye and Vision Research Grant Proposals for Dept. of Defense's Congressionally		
Eye and Vision Research	Directed Medical Research Program's Fiscal Year 2008 2016 Vision Research Grant Proposals for Dept. of Defense's Congressionally Directed Medical Research Program's Fiscal Year 2016		
	2017 Vision Research Program - Cell-Based Therapies for Department of Defense's Congressionally Directed Medical Research Program Fiscal Year 2017		
Editorial Reviewer	2010 – present Elsevier's Physical Medicine and Rehabilitation Journal		



Connecting Optometry with Neuroscience

page 5 of 5

Boards and Advisory Committees	 2014 – present JoVE (Journal of Visualized Experiments) Peer Reviewed Scientific Video Journal 2016 – present Remedy Open Access Ophthalmology Journal 2004 – present Scientific Learning Corporation 2019 – present Medical Advisory Board, Hope for HIE (Hypoxic Ischemic Encephalopathy) 2020 – present Board of Directors, Society for Brain Mapping and Therapeutics 	
Teaching and Certification	 2011 Exploration of sensory-motor interactions program to the Society of European Optometrists in Brussels, Belgium 2012 Exploration of patient-environment interactions program to optometrists, 	
	occupational and physical therapists in Northbrook, Illinois	
	2013 Exploration of visual/auditory integration program to optometrists in Mainz, Germany	
	2014 ImPACT certification for concussions	
	2014 The Importance of Visual/Auditory Interactions in Patients - program in Vienna, Austria 2015	
	2014 Exploration of changes in retinal biochemistry in concussions in Northbrook, IL	
	2017- present Founder of The Mind-Eye Campus, a monthly webinar featuring new brain research	
	2017 An Insight to Vision–beginning of certification process for Z-Bell Testing in Northbrook, IL	
	2017 Neuroplasticity of Visual Processing scheduled in Montreal, Canada	
	2019 The Overlooked Effect of Retinal Stimulation on Cardiovascular Health in Amsterdam	
PATENTS	2008 U.S. Patent # 7,427,136 issued on the Z-Bell Test Method	
	2009 U.S. Patent # 7,607,777 issued on alteration of corneal tear film	
	2011 U.S. Patent # 8,083,351 issued on alteration of body hormones through corneal tear film	
	2015 U.S. Patent # 9,155,489 issued on retinal tolerance device	
	2016 U.S. Patent # 9.433.354 issued on modifying retinal input for retinal neuromodulation	

2016 U.S. Patent # 9,433,354 issued on modifying retinal input for retinal neuromodulation