

CURRICULUM VITAE

(Last updated 2-18-2025)

NAME: David S. Shannahoff-Khalsa

PLACE OF BIRTH: Los Angeles, California, USA

NATIONALITY: United States

EDUCATION: B.A., Biology, University of California, San Diego, Revelle College, 1971

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PROFESSIONAL EXPERIENCE:

August 1, 2024 – Present, Visiting Scholar, Aiso Yufeng Li Family Department of
Chemical and Nano Engineering, Jacobs School of Engineering, University of
California, San Diego

May 2022 – September 2023, Topic and Guest Associate Editor, Special Topic Issue for
Frontiers in Psychiatry – Neuroimaging and Stimulation, “Advances in Brain
Dynamics in the Healthy and Psychiatric Disorders” See:
<https://www.frontiersin.org/research-topics/40210/advances-in-brain-dynamics-in-the-healthy-and-psychiatric-disorders#overview>

January 2021 - December 2021, Faculty-Instructor, Psychiatry Redefined

2009 – 2023 - The Research Group for Mind-Body Dynamics, BioCircuits Institute,
University of California, San Diego (Visiting Scholar 2009-2015, Staff
Volunteer 2015-2023)

2003 - 2009 - Honorary Associate, The University of Sydney, Australia, Faculty
of Health Sciences, Associate Supervisor for Thesis Dissertation using Yoga
Meditation to treat Attention Deficit Hyperactive Disorder

1994 - 2009 - The Research Group for Mind-Body Dynamics, Institute for Nonlinear
Science, University of California, San Diego

1984 - present - President, The Khalsa Foundation for Medical Science, Del Mar, CA

1990 - 2001 - Visiting Scientist, Laboratory of Michael G. Ziegler, MD, Department of Medicine, Division of Nephrology, University of California, San Diego

1983 - 1984 - Research Associate, Senior Staff Laboratory, Salk Institute for Biological Studies, La Jolla, CA

1976 - 1983 - Collaborative Research Associate, Arthur Vining Davis Laboratory for Behavioral Neurobiology, Salk Institute for Biological Studies, La Jolla, CA

1976 - 1977 - Research Consultant, Terra Marine Bioresearch, San Diego

1975 - 1983 - Research Assistant, Molecular Biology & Virology Laboratory, Salk Institute for Biological Studies, La Jolla, CA

1970 - 1973 - Research Assistant, Chemical Evolution Laboratory, Salk Institute

1968 (6 months) - Research Assistant, Surgical Research Laboratories, UC San Diego

ADDITIONAL EXPERIENCE:

2023-pres - Editorial Advisory Board, Nonlinear Engineering

2014-pres - CEO/President of SacredTherapies.com Productions – The Kundalini Yoga Meditation Psychiatric Disorder-Specific Multi-part Protocol Videos

2016-pres - Associate Editor - The Journal of Integrative and Complementary Medicine (was previously The Journal of Alternative and Complementary Medicine until 12-31- 2021)

2009-2016 - Senior Editor – The Journal of Alternative and Complementary Medicine

2006-2008 - Associate Editor - The Journal of Alternative and Complementary Medicine

2005-2016 - Senior Editorial Board – Natural Standard: The Authority on Integrative Medicine

2016-pres - Senior Editorial Board – Natural Medicine (previously the Natural Standard)

2005-2007 - Member of the Technical Expert Panel, University of Alberta Evidence-Based Practice Center, Evidence Report on “Effectiveness of Meditation in Healthcare”, funded by the National Center for Complementary and Alternative Medicine, NIH, managed by the Agency for Healthcare

Research and Quality.

2000-2006 - Editorial Board - The Journal of Alternative and Complementary Medicine.

1997-2000 - Practitioners Advisory Panel - The Journal of Alternative and Complementary Medicine.

1989-1991 - Consultant/Advisor - National Research Council, Committee on Techniques for the Enhancement of Human Performance, Committee formed at the request of the Army Research Institute to investigate methods/techniques to overcome stress and maintain competence under unusually high levels of stress.

1987-1990 - Task Force Member - The California Task Force to Promote Self-Esteem, and Personal, and Social Responsibility (California legislature passed bill to investigate and recommend programs for prevention and rehabilitation in 6 areas: (1) crime and violence, (2) drug and alcohol abuse, (3) child and spousal abuse, (4) teenage pregnancy, (5) chronic welfare dependency, (6) failure to learn in the educational system.

1988-1990 - Consultant - San Diego City Unified School District, workshops for staff, teachers, and students, techniques to reduce stress, enhance mental development and educational performance.

1985-1987 - Editorial Advisory Board - Human Neurobiology (Springer Verlag)

1976-1990 - Consultant - 3HO SuperHealth (Drug & Alcohol Rehabilitation Hospital), Tucson, Arizona.

1974-pres - Studied Yogic Medicine and taught Kundalini Yoga.

PRESENTATIONS AT CONFERENCES:

AMERICAN PSYCHIATRIC ASSOCIATION ANNUAL MEETING CONFERENCES:

2014 **American Psychiatric Association, 66th Institute on Psychiatric Services**, Full Day 6 Hour Accredited CME Course, Kundalini Yoga Meditation Techniques for Anxiety Disorders Including OCD, Depression, Attention Deficit Hyperactivity Disorder, and Posttraumatic Stress Disorder, San Francisco, California, October 30-November 2, 2014.

165th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Anxiety Disorders Including OCD, Depression, Attention Deficit Hyperactivity Disorder, and Posttraumatic Stress Disorder” Course 5, May, 5, 2012, Philadelphia.

165th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Schizophrenia, the Personality Disorders, and Autism” Course 19, May, 6, 2012, Philadelphia.

164th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Anxiety Disorders Including OCD, Depression, Attention Deficit Hyperactivity Disorder, and Posttraumatic Stress Disorder” May 14, 2011, Honolulu.

164th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Schizophrenia, the Personality Disorders, and Autism” May 15, 2011, Honolulu.

163rd Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Anxiety Disorders Including OCD, Depression, Attention Deficit Hyperactivity Disorder, and Posttraumatic Stress Disorder” May 25, 2010, New Orleans.

163rd Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Schizophrenia, the Personality Disorders, and Autism” May 26, 2010, New Orleans.

161st Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Psychiatric Disorders” May 3, 2008, Washington, DC.

160th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Mental Health” May 20, 2007, San Diego, California.

159th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Mental Health” May 21, 2006, Toronto, Ontario, Canada.

158th Annual Meeting, **American Psychiatric Association**, Full Day 6 Hour Accredited CME Course, “Kundalini Yoga Meditation Techniques for Psychiatric Disorders” May 22, 2005, Atlanta, Georgia.

157th Annual Meeting, **American Psychiatric Association**, 90 min workshop, "Kundalini Yoga Meditation Techniques for Psychiatric Disorders" May 5, 2004, New York City, NY.

156th Annual Meeting, **American Psychiatric Association**, OCD Symposium on "New Research and Current Strategies for the Treatment of Obsessive-Compulsive Disorder," "Kundalini Yoga Meditation for the Treatment of OCD," May 21, 2003, San Francisco, CA.

Other Conferences:

Embodied Brain Conference 2019, (online by EmbodiedPhilosophy.com)
"Advanced Pranayama Techniques From Kundalini Yoga As Taught By Yogi Bhajan™" July 19-21, 2019, New York City.

Embodied Brain Conference 2019, (online by EmbodiedPhilosophy.com)
"Kundalini Yoga As Taught By Yogi Bhajan: Selected Contributions to the Basic Sciences and Clinical Treatment, and a Variety of Meditation Techniques for Treating Psychiatric Disorders," February 1-3, 2019, New York City.

18th Annual Santa Fe Symposia, New England Educational Institute, "Kundalini Yoga Meditation Techniques and Protocols Specific for Treating GAD, OCD, Addictions, Impulse Control and Eating Disorders, MDD, Bipolar Disorders, ADHD and Co-morbid Disorders, and PTSD" October 29 - 31, 2010, Santa Fe, NM.

International Conference on Total Health – Modern Medicine, Yoga and Ayurveda: Research Perspectives, "Kundalini Yoga Meditation Techniques Specific for the Treatment of Psychiatric Disorders," September 24-26, 2010, Orlando, Florida.

6th International Conference on Hemodynamics, Time Series Analysis and Sleep-Related Ultradian Variations in Beat-to-Beat Measures of MAP vs SI and CNS-ANS States, Vechta, Germany, June 4-5, 2009.

The National Institute for Developmental Psychiatry, Inauguration Conference, Psychiatry for Development of Infants and Adolescents, A New Paradigm for Psychiatry, "A Novel Non-invasive Approach for the Treatment of Children and Adolescents at Risk for the Development of Psychiatric Disorders," Department of Psychiatry, University of Sao Paulo, Brazil, March 19-20, 2009.

8th World Congress on Qigong, San Francisco, CA, Nov 19, 2005, lecture – "Physiological Studies in Mind-Body Medicine Based on Concepts and Techniques from

Kundalini Yoga and a Randomized Controlled Trial Treating Obsessive Compulsive Disorder.”

8th World Congress on Qigong, San Francisco, CA, Nov 19, 2005, “An Experiential Workshop with Kundalini Yoga Meditation Techniques Specific for Psychiatric Disorders.”

Whole Person Health Summit 2005, Highlights of Novel Studies in Mind-Body Medicine Based on Concepts and Techniques from Kundalini Yoga, Bethesda, MD, April 14-17, 2005.

Cyber Physiology and Self Regulation in Pediatrics, April 27, 2002, Children’s Hospital and Health Center, Children’s Integrative Medicine, San Diego, CA

8th Annual Obsessive Compulsive Foundation Conference, July 20-22, 2001, Denver, CO

7th Annual Obsessive Compulsive Foundation Conference, August 11-13, 2000, Schaumburg, IL

6th International MusicMedicine Symposium on Music, Physiology, and Medicine, The University of Texas Health Science Center, October 10-12, 1996, San Antonio, Texas

Alternative Medicine Program Advisory Council, National Institutes of Health, Department of Health and Human Services, presentation: Clinical Case Report: Efficacy of Yogic Techniques in the Treatment of Obsessive Compulsive Disorders, September 18-19, 1995, Rockville, Maryland

5th International MusicMedicine Symposium on Music, Physiology and Medicine, University of Texas Health Science Center, March 17-19, 1994, San Antonio, Texas

6th International Congress of Psychophysiology, Symposium on Hemispheric Imbalance and the Modifiability of Maladaptive Processes, September 1-6, 1992, Berlin, Germany

Education For The 21st Century - Exploring the Brain's Potential, May 3-5, 1991, San Diego, sponsored by the San Diego City & County Schools & USD

The Asian Conference on Chronobiology and Chronomedicine, March 24-29, 1991, West Chengdu Medical School, Chengdu, China

5th International Congress of Psychophysiology, Symposium on Lateralization in

Autonomic and Neuroendocrine Control, July 9-14, 1990, Budapest, Hungary

4th International Symposium for Music in Medicine, Annenberg Center for Health Sciences, Eisenhower Medical Center, Palm Springs, CA, October 24-29, 1989

California Association of Child Care Workers, June 6, 1988, San Diego, CA.

International Child and Youth Care Conference, March 22-25, 1988, Wash. D.C.

The First International Conference on Energy Medicine, Feb 27 - March 1, 1987, Madras, India.

The Third International Conference for Music and Medicine, Oct 11-12, 1986, Ludenscheid, Germany.

The Third International Conference on Multiple Personality/Dissociative States, Sept 19-21, 1986, Chicago, Ill.

Beyond the Relaxation Response: Self-Regulation & Healing for Clinicians, Oct 26-28, 1984, University of California, Los Angeles.

How Might Positive Emotions Affect Physical Health, Stanford University, May 13-15, 1984, Stanford, CA.

GRAND ROUNDS LECTURES & OTHER RECENT PRESENTATIONS:

“Psychophysiological States and Multivariate Physiology – Insights from the Lateralized Ultradian Rhythms of the Autonomic & Central Nervous Systems,” UC San Diego, Jacobs School of Engineering, Department of Chemical and NanoEngineering, Department of Electrical and Computer Engineering, Department of Bioengineering, April 11, 2024.

“Kundalini Yoga Meditation Techniques for Integrative Mental Health,” UC San Diego Center for Integrative Education, “Integrative Health Grand Rounds” by Zoom on April 19, 2023.

“What is Kundalini Yoga as Taught by Yogi Bhajan,” Seminar for Sarayu Trust Sangam Talks (India based), video filmed via Zoom September 19, 2021, presented online October, 23, 2021 via Youtube for 336,000 subscribers.

“Kundalini Yoga Meditation for Treating Obsessive Compulsive Disorders: The 11-Part

OCD-Specific Protocol in Practice,” Psychiatry Redefined, June 5, 2021 Zoom presentation 3 hours (12pm-3pm).

“Treating OCD Using Kundalini Yoga Meditation Techniques: A Review of Three Clinical Trials,” Psychiatry Redefined, April 6, 2021 Zoom presentation 90 min (5pm-6:30pm).

“High Resolution Spatial Temporal Analysis of Whole-Head 306-Channel Magnetoencephalography & 66-Channel Electroencephalography Brain Imaging in Humans During Sleep” September 15, 2020, Presenter(s): David Shannahoff-Khalsa (UCSD) Mona Wong (San Diego Super Computer Center (SDSC)) Jeff Sale (SDSC); The XSEDE ECSS Symposium, SDSC. The Extreme Science and Engineering Discovery Environment (XSEDE) is supported by the National Science Foundation; Extended Collaborative Support Services (ECSS).

“Kundalini Meditation Techniques for Vitality, Clarity, Bliss, and Rejuvenation,” Department of Psychiatry, Residents Rounds, UCSD, La Jolla, CA, September 19, 2019.

“Advanced Kundalini Yoga Pranayams As Taught by Yogi Bhajan™” A Four-Week Online Course with David Shannahoff-Khalsa, July 24, 31, August 7, 14, 2019.

“Kundalini Yoga Meditation Techniques for Rapid Stress Management and Rejuvenation,” Department of Psychiatry, Residents Rounds, UCSD, La Jolla, CA, November 3, 2016.

“Kundalini Yoga Meditation Techniques Specific for Psycho-oncology Patients and Techniques Specific for Cancer,” 1 hr lecture, Pfizer, La Jolla, CA, December 14, 2015.

“Kundalini Yoga Meditation for Post Traumatic Stress Disorder and the Addictive, Impulse Control, and Eating Disorders,” 4 hr workshop, San Diego State University, Community-Based Block Program, Department of Counseling & School Psychology, College of Education, April 29, 2015.

Science and Nonduality Conference 2013 - Presentations, Pre-Conference Workshop (3 hrs) “Kundalini Yoga Meditation Techniques for Enlightenment,” Lecture (35 min) “Kundalini Yoga Meditation: Disorder-Specific Techniques for Treating Psychiatric Disorders,” Experiential class (50 min) “A Kundalini Yoga Pranayam to Awaken the Dormant Regions of the Brain and a Mantra to Awaken, Balance, and Heal the Eight Chakras,” San Jose, CA October 24-25, 2013.

“Kundalini Yoga Meditation Techniques as Taught by Yogi Bhajan” In: Dharma & Yoga Festival 2013 Celebrating the 150th Birth Anniversary of Swami Vivekananda, San Diego, CA, September 29, 2013.

“Kundalini Yoga Meditation: An Ancient Technology of the Mind” In Symposium - Innovative Methods and Devices for Personal Health, The Indus Entrepreneurs (South Coast), La Jolla, CA April 23, 2013.

“On Rhythms and Reality: Contributions Towards Perception and Healing from Kundalini Yoga,” Lecture, The V.S. Ramachandran Research Group, UCSD, April 4, 2013.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders” at the UCSD Center for Integrative Medicine – Executive Team Members, January 25, 2012.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders” at the UC San Diego Center for Integrative Medicine – Humanizing Health Care, Inaugural Conference, UCSD Moores Cancer Center, August 27, 2011.

Exploring the Science of Yoga Series: “Scientific Discoveries Based on Kundalini Yoga and an Array of Meditation Techniques for Psychiatric Disorders, Health, Longevity and as Anti-Aging Therapies,” California Institute for Telecommunications and Information Technology (Calit2), University of California, San Diego, March 24, 2011.

“Kundalini Yoga Meditation Techniques for Longevity and as Anti-Aging Therapies” Stein Institute for Research on Aging, University of California, San Diego January 10, 2011.

"Kundalini Yoga Meditation Techniques Specific for the Addictions, OCD, Impulse Control Disorders, and Compulsive Behavior," National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH), Oct 15, 2010.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders,” Professor’s Rounds, Department of Psychiatry, Rady Children’s Hospital, San Diego, November 20, 2009.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders,” 2nd Year Psychiatric Residents, UCSD Department of Psychiatry, March 26, 2009 and earlier presentations on Jan 23, 2004, Jan 26, 2006, Jan 11, 2007, and March 27, 2008.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders,” PROTOC Group, Department of Psychiatry, University of Sao Paulo, Brazil, March 18, 2009.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders” A Full Day 7 hr CE Course, The Center for Integrative Psychology at Alliant International University, November 1, 2008.

“Kundalini Yoga Meditation Techniques for Psycho-Oncology Patients and Care Givers: An Interactive Participant Workshop” The Psycho-Oncology Seminar Series, Moores UCSD Cancer Center, September 17, 2008.

“A Multi-Part Kundalini Yoga Meditation Protocol for Psycho-Oncology Patients,” The Psycho-Oncology Seminar Series Grand Rounds, Moores UCSD Cancer Center, August 20, 2008.

"Psychophysiological States: The Ultradian Dynamics of Mind-Body Interactions," The Department of Cognitive Science, UCSD, April 22, 2008.

"Psychophysiological States: The Ultradian Dynamics of Mind-Body Interactions," J.C. Gillan Sleep and Chronobiology Seminar Series, UCSD Department of Psychiatry, February 5, 2008.

“Kundalini Yoga Meditation Techniques for Psychiatric Disorders” October 5, 2007, Grand Rounds Lecture, Department of Psychiatry, Rady Children's Hospital San Diego.

"Kundalini Yoga Meditation Techniques for the Treatment of Fatigue, Depression, and Anxiety" and "Yogic Insights and Contributions Towards Understanding Brain Function, the Nervous System, and Physiology", at The War-Related Illness and Injury Study Center, VA Medical Hospital, East Orange, New Jersey, and University of Medicine and Dentistry of New Jersey, May 4, 2004.

A Randomized Controlled Trial Using Yogic Meditation Techniques to Treat Obsessive Compulsive Disorder: Clinical Results and Experiential Introduction to the Meditation Protocol - University of Virginia, Charlottesville, Department of Psychiatry, June 4, 2000.

Yogic Meditation Techniques are Effective in the Treatment of Obsessive Compulsive Disorders: Implications for Psychiatry - Children's Hospital, San Diego, Department of Psychiatry, December 6, 1996.

PUBLICATIONS:

Scientific Publications:

In Preparation:

Shannahoff-Khalsa DS, Wong-Barnum M, Sale J, Golshan S, Schlosser A, Dehghani N, Halgren H, Ultradian Rhythms of Alternating Cerebral Hemispheric Activity and Sleep Stages in Humans: Whole-Head 306-Channel MEG and 66-Channel EEG (to be submitted to *Frontiers in Psychiatry*).

Shannahoff-Khalsa DS, Sale J, Wright JA, Bucolo M, Peterson, CT. Whole-Head 148-Channel Magnetoencephalography Imaging of a Yogic Breathing Technique that is Effective for Treating Obsessive Compulsive Disorders (to be submitted to *Frontiers in Psychiatry*).

To Be Submitted:

D'Urso M, Buscarino A, Sanalidro D, **Shannahoff-Khalsa D**, Bucolo M, MEG Data Analysis in Gamma Band Unveils Effects of Yogic Breathing Techniques on Brain Activity

In Submission:

Shannahoff-Khalsa D, Philippu A, Dentico D, A Model for the Hypothalamic Regulation of the Lateralized Ultradian Rhythms of the Autonomic and Central Nervous Systems (submitted to *Heliyon Neuroscience*)

In Press:

Published:

Divya Ramakrishnan, Luis C. Farhat, Edoardo F. Q. Vattimo, Jessica J. L. S. Levine, Jessica A. Johnson, Bekir B. Artukoglu, Angeli Landeros-Weisenberger, Abraham Zangen, Antoine Pelissolo, Carlos A. de B. Pereira, Christian Rück, Daniel L. C. Costa, David Mataix-Cols, **David Shannahoff-Khalsa**, David F. Tolin, Elham Zarean, Elisabeth Meyer, Emily R. Hawken, Eric A. Storch, Erik Andersson, Euripedes C. Miguel, Giuseppe Maina, James F. Leckman, Jerome Sarris, John S. March, Juliana B. Diniz, Kenneth Kobak, Luc Mallet, Nienke C. C. Vulink, Revital Amiaz, Rodrigo Yacubian Fernandes, Roseli G. Shavitt, Sabine Wilhelm, Shahrokh Golshan, Sophie Tezenas du Montcel, Stefano Erzegovesi, Upasana Baruah, William M. Greenberg, Yuki Kobayashi, and Michael H. Bloch. An evaluation of treatment response and remission definitions in adult obsessive-compulsive disorder: a systematic review and individual-patient data meta-analysis. *Journal of Psychiatric Research* 2024, Volume 173, May 2024, 387-397.

Papo D, Bucolo M, Dimitriadis S I, Onton, J A, Philippu A, **Shannahoff-Khalsa D**, (2023), Editorial: Advances in brain dynamics in the healthy and psychiatric disorders, *Frontiers in Psychiatry, Neuroimaging Section*, 14:1284670. doi: 10.3389/fpsy.2023.1284670.

Bernardi D, **Shannahoff-Khalsa D**, Sale J, Wright JA, Fadiga L, and Papo D, (2023) The Time scales of irreversibility in spontaneous brain activity are altered in obsessive compulsive disorder, *Frontiers in Psychiatry, Neuroimaging Section*, 14:1158404. doi: 10.3389/fpsy.2023.1158404.

Shannahoff-Khalsa D, Schult R, Bo Sramek B. Ultradian Hemodynamics and Autonomic-Central Nervous System Activity During Sleep: A Pilot Study with Insights for Hypertension. *Integrative Medicine Reports*. Aug 2022. 1.1, pp. 164-176. <http://doi.org/10.1089/imr.2021.0031>

Shannahoff-Khalsa D, Fernandes RY, Pereira CAB, March JS, Leckman JF, Golshan S, Vieira MSR, Polanczyk GV, Miguel EC and Shavitt RG (2019). Kundalini Yoga Meditation Versus the Relaxation Response Meditation for Treating Adults with Obsessive-Compulsive Disorder: A Randomized Clinical Trial. *Frontiers in Psychiatry* 10:793. doi: 10.3389/fpsy.2019.00793.

Shannahoff-Khalsa DS, My Kundalini Yoga Research Contributions to the Basic Sciences and for Treating Psychiatric Disorders: A Brief Historical Narrative, *Tarka by Embodied Philosophy*, Issue # 010, January 9, 2019, pp. 140-151.

Shannahoff-Khalsa DS, Golshan S, Nasal cycle dominance and hallucinations in an adult schizophrenic female, *Psychiatry Research*, 226, pp. 289-292, 2015.

Shannahoff-Khalsa DS, *Sacred Therapies: The Kundalini Yoga Meditation Handbook for Mental Health*. W. W. Norton & Co. Inc., New York, London, 2012.

Shannahoff-Khalsa D. (2012) Meditation: The Science and the Art. In: V.S. Ramachandran (ed.) *The Encyclopedia of Human Behavior*, vol. 2, pp. 576-584. Academic Press.

Shannahoff-Khalsa DS, *Kundalini Yoga Meditation for Complex Psychiatric Disorders: Techniques Specific for Treating the Psychoses, Personality, and Pervasive Developmental Disorders*, W. W. Norton & Co. Inc, New York, London, 2010 (professional book division).

Bucolo M, Di Grazia F, Sapuppo F, **Shannahoff-Khalsa D**, Identification of MEG-Related Brain Dynamics Induced by a Yogic Breathing Technique, Conference Proceedings, IEEE Workshop on Health Care Management, Venice, Italy — February 18-20, 2010.

Di Grazia F, Sapuppo F, Pistagna C, **Shannahoff-Khalsa D**, Fortuna L, Bucolo M. (2009). Brain Functional Synchronization on Grid. Final Workshop on Grid Projects "Research" PON 2000-2006 - Advise 1575. Department of Physics and Astronomy, Catania, Italy. February 10 -12, 2009.

Di Grazia F, Sapuppo F, **Shannahoff-Khalsa D**, Bucolo M, Network Parameters for Studying Functional Connectivity in Brain MEG Data, International Journal of Bioelectromagnetism, Vol. 11, No. 4, pp.161-169, 2009.

Bucolo M, Di Grazia F, Sapuppo F, **Shannahoff-Khalsa D**, Unsupervised Classification for Nonlinear Dynamical Analysis of Brain MEG Activity. 7th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart & 7th International Conference on Bioelectromagnetism, Rome, Italy, March 29-34, 2009.

Bucolo M, Di Grazia F, Sapuppo F, **Shannahoff-Khalsa D**, Network Parameters for Studying Functional Connectivity in Brain MEG Data. 7th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart & 7th International Conference on Bioelectromagnetism, Rome, Italy, March 29-34, 2009.

Shannahoff-Khalsa, D.S., Comments on the Short Publication "Immediate Effects of Right and Left Nostril Breathing on Verbal and Spatial Scores" by Meesha Joshi and Shirley Telles in IJPP 2008; 52: 197-200. Indian Journal of Physiology and Pharmacology 2009; 53(1):102-104.

Bond K, Ospina MB, Hooton N, Bialy L, Dryden DM, Buscemi N, **Shannahoff-Khalsa D**, Dusek J, Carlson, LE. Defining a Complex Intervention: The Development of Demarcation Criteria for "Meditation." Psychology of Religion and Spirituality. Vol 1(2), 2009, 129-137.

Ospina MB, Bond K, Karkaneh M, Buscemi N, Dryden DM, Barnes V, Carlson LE, Dusek JA, **Shannahoff-Khalsa D**. Clinical trials of Meditation Practices in Healthcare: Characteristics and Quality, The Journal of Alternative and Complementary Medicine, December 2008, 14(10): 1199-1213.

Shannahoff-Khalsa DS, Kundalini Yoga meditation techniques in the treatment of obsessive compulsive and OC spectrum disorders. In: Editor, Albert R. Roberts, Ph.D., Social Workers' Desk Reference, second edition, New York, N.Y. Oxford University

Press, Chapter 86 pp. 606-612, 2008.

Bucolo M, Di Grazia F, Frasca M, Sapuppo F, **Shannahoff-Khalsa D**.
From Synchronization to Network Theory: A Strategy for MEG Data Analysis.
Proceedings of the 16th Mediterranean Conference on Control and Automation,
MED'08, Ajaccio, France, June 25-27, art. no. 4602069, pages 854-859, 2008.

Shannahoff-Khalsa, DS, Psychophysiological States: The Ultradian Dynamics of Mind-
Body Interactions, In the series "International Review of Neurobiology," Academic Press
(Elsevier Scientific Publications), vol 80, pps. 1-249, 2008 (written by invitation).

Shannahoff-Khalsa, DS, Selective Unilateral Autonomic Activation: Implications for
Psychiatry (a review article), CNS Spectrums: The International Journal of
Neuropsychiatric Medicine, 12(8), pp. 625-634, Aug 2007.

Bucolo M, Di Grazia F, Fortuna L, Frasca M, Sapuppo F, **Shannahoff-Khalsa D**,
Complementary Methods for Interpreting Brain Signals: Linear versus Nonlinear
Techniques, Engineering in Medicine and Biology Society, 2007. EMBS 2007. 29th
Annual International Conference of the IEEE, 22-26 Aug. 2007, art. no. 4352704,
Page(s):1969-1972.

Arena P, Bucolo M, Fortuna L, Frasca M, La Rosa M, Sapuppo F, Umana E,
Shannahoff-Khalsa, D. d-infinite criteria for MEG characterization, Proceedings - IEEE
International Symposium on Circuits and Systems, art. no. 4252889, pp. 1317-1320.

Shannahoff-Khalsa DS, Kundalini Yoga Meditation: Techniques Specific for
Psychiatric Disorders, Couples Therapy, and Personal Growth, W. W. Norton &
Company, New York, London, 2006 (a professional book, written by invitation).

Shannahoff-Khalsa D, A perspective on the emergence of meditation techniques for
medical disorders. The Journal of Alternative and Complementary Medicine, 12(8), 709-
713, 2006.

Sapuppo, F., Umana, E., Frasca, M., La Rosa, M., **Shannahoff-Khalsa, D.**, Fortuna, L.,
Bucolo, M., Complex spatio-temporal features in MEG data. Mathematical Biosciences
and Engineering, 3(4), 697-716, 2006.

Shannahoff-Khalsa DS. Patient perspectives: Kundalini yoga meditation techniques for
psycho-oncology and as potential therapies for cancer. Integrative Cancer Therapies,
4(1):87-100, 2005.

Sapuppo F, La Rosa M, Frasca M, **Shannahoff-Khalsa D**, Bucolo M, Fortuna L, A New Approach for Exploring Complexity in MEG Signals, The 13th International IEEE Workshop on Nonlinear Dynamics of Electronic Systems (NDES 05), Potsdam, Germany, 13-22 September 2005.

La Rosa M, **Shannahoff-Khalsa D**, Frasca M, Bucolo M, Fortuna L, Indicators in brain regions: the energy spatial patterns, Proceedings - The 3rd European Medical and Biological Engineering Conference November 20 – 25, 2005, Prague, Czech Republic, IFMBE Proc. 2005 11(1) ISSN: 1727-1983.

Shannahoff-Khalsa D, Sramek BB, Kennel MB, Jamieson SW, Hemodynamic Observations on a Yogic Breathing Technique Claimed to Help Eliminate and Prevent Heart Attacks: A Pilot Study, The Journal of Alternative and Complementary Medicine, 10(5), 757-766, 2004.

Shannahoff-Khalsa D, An Introduction to Kundalini Yoga Meditation Techniques that are Specific for the Treatment of Psychiatric Disorders, The Journal of Alternative and Complementary Medicine, 10(1), 91-101, 2004.

Bucolo M, Fortuna L, Frasca M, La Rosa M, Virzì MC, **Shannahoff-Khalsa D**, A nonlinear circuit architecture for magnetoencephalographic signal analysis, Methods of Information in Medicine, 43(1), 89-93, 2004.

La Rosa M, Bucolo M, Bucolo G, Fortuna L, Frasca M, **Shannahoff-Khalsa D**, Sorbello M. Nonlinear techniques and neural activity: Emergent trends in MEG data. Proceedings - IEEE International Symposium on Circuits and Systems 4, pp. IV-65-IV-68, 2004.

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