

Leslie H. Sherlin
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Education:

- **Exp.2007 Doctor of Philosophy; Specialization: Psychology**
CAPELLA UNIVERSITY
Minneapolis, Minnesota
- **2003 Master of Science, Psychology; Specialization: Clinical Psychology**
CAPELLA UNIVERSITY
Minneapolis, Minnesota
- **2000 Bachelor of Arts, Psychology**
THE UNIVERSITY OF TENNESSEE
Knoxville, Tennessee

Professional Certification:

- **Certified Crisis Intervener – Level 1** by the American Psychotherapy Association and the American Board of Examiners in Crisis Intervention, 2005
- **Certified Biofeedback Practitioner in EEG Biofeedback** by the Biofeedback Certification Institution of America, 2005
- **Diplomate of Neurofeedback** by the Neurotherapy and Biofeedback Certification Board, 2005
- **Quantified Electroencephalography Diplomate** by the Quantitative Electroencephalograph Certification Board, 2004
- **Certified Neurofeedback Specialist** by the Neurotherapy and Biofeedback Certification Board, 2004
- **Certified Neurofeedback Instructor & Supervisor** by the Neurotherapy and Biofeedback Certification Board, 2004

Professional Appointments:

- May 07 to Present
Adjunct Associate Professor
Department of Psychology
NORTHERN ARIZONA UNIVERSITY, Flagstaff, AZ

- June 05 to Present
Director of QEEG Rapid Reporting Services
 Jack Johnstone, Ph.D. – President & CEO
Q-METRX, INC., Burbank, CA
- June 05 to Present
Neurofeedback/Biofeedback Practitioner
 Christine Girard, N.D. – Chief Medical Officer
SOUTHWEST NATUROPATHIC MEDICAL CENTER, Tempe, AZ
- May 05 to Present
Adjunct Faculty
 Department of Mind-Body Medicine
 John Dye, N.D. – Department Chair
SOUTHWEST COLLEGE OF NATUROPATHIC MEDICINE, Tempe, AZ
- Dec 05 to Present
QEEG Instructor
 Steve Stern – President
Stens Corporation, San Rafael, CA
- Nov 99 to Present
President
 Marco Congedo, PhD – Chairman of the Board
NOVA TECH EEG, INC., Mesa, AZ
- Mar 02 to June 05
QEEG Technician & Neurofeedback Practitioner
 Robert Gurnee, MSW – Director
 Janet Falgout, Ph.D. Psychologist - Supervisor
**ATTENTION DEFICIT DISORDER CLINIC AND SCOTTSDALE
 NEUROFEEDBACK INSTITUTE**, Scottsdale, AZ
- Apr 00 to Mar 02
Resident Counselor
 Jean Schaid, Ph. D. – Clinical Director
REFLECTIONS TREATMENT AGENCY, Knoxville, TN

Research Appointments:

- Mar 06 to Present
Research Associate Faculty
 Rick Eberst, PhD - Provost
SOUTHWEST COLLEGE RESEARCH INSTITUTE
 Southwest College of Naturopathic Medicine and Health Sciences, Tempe, AZ
- June 05 to Present

Research Associate

Jack Johnstone, Ph.D. – President & CEO
Q-METRX, INC., Burbank, CA

- Aug 98 to Mar 02
Laboratory Research Assistant
Joel F. Lubar, Ph.D. – Supervisor
BRAIN RESEARCH AND QEEG LABORATORY
The University of Tennessee, Knoxville, Tennessee

Field Training Appointments:

- June 05 to December 05
Doctoral Clinical Psychology Practicum
500 Hours - The primary emphasis of the practicum training is Psychological Screening, Critical Incident Stress Debriefings and Fitness for Duty Evaluations for contracted Police Departments and Public Safety organizations.
Stephen L. Carson, Ph.D. Psychologist - Supervisor
STEPHEN L. CARSON & ASSOCIATES, Tempe, AZ
- Apr 03 to Sept 03
Master Clinical Psychology Practicum
600 Hours - Service clients in a group private practice for psychological services, including clinical interview, diagnostic testing and treatment.
Janet Falgout, Ph.D. Psychologist - Supervisor
ATTENTION DEFICIT DISORDER CLINIC, Scottsdale, AZ

Professional Organization Appointments:

- September 06 to September 08
Member at Large to the Board of the
International Society for Neurofeedback and Research
- September 06 to September 08
Student Representative (2nd Term) to the Council of the
Society of Applied Neuroscience
- September 04 to September 06
Student Representative to the Council of the
Society of Applied Neuroscience

Current Projects:

- Role: Principle Investigator. Co-Investigators: Gevirtz, R, Lehrer, P. & Johnstone, J. “A Randomized Controlled Study of the Effects of an Ambulatory Biofeedback Device on Physiology and State Anxiety.” Industry Sponsor: Helicor, Inc. Amount: \$15,000 +. 07/06-07/07.

- Role: Co-Investigator. Principle Investigator: Erickson-Davis, C. Co-Investigators: Parashos, S., Wielinski, C., & Anderson, J. “Neurofeedback training for dyskinesia in Parkinson’s disease.” Pilot investigation for application to the NIH-National Center for Complementary and Alternative Medicine.

Published Articles (Refereed Journals):

- Sherlin, L., Budzynski, T., Budzynski, H.K., Congedo, M. Fischer, M.E., & Buchwald, D. (2007). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). *Neuroimage*. Vol 34, (4), 1438-1442.
- Sherlin, L., & Congedo, M., (2005). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA). *Neuroscience Letters*. Volume 387, Issue 2, October, Pages 72-74.
- Congedo, M., Ozen C., & Sherlin, L. (2002). Notes on EEG Resampling by Natural Cubic Spline Interpolation. *Journal of Neurotherapy*. Vol 6:4.

Published Abstracts (Refereed Journals):

- Townsend, A., Sherlin, L., & Hall, J. (2006). LORETA and QEEG Correlations with the Alzheimer's Disease Assessment Scale. [Abstract]. *Journal of Neurotherapy*. Vol 9:4.
- Sherlin, L., Townsend, A., & Hall, J. (2006). LORETA Analysis of Alzheimer’s Disease. [Abstract]. *Journal of Neurotherapy*. Vol 9:4.
- Sherlin, L., Budzynski, T., Budzynski, H.K., Congedo, M. Fischer, M.E., Goldberg, J., Ashton, S., & Buchwald, D. (2005). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). [Abstract]. *Journal of Neurotherapy*. Vol 9:1.
- Smith, P., Sams, M.W., & Sherlin, L. (2004). The Neurological Basis of Eating Disorders. I: EEG Findings and the Clinical Outcome of Adding Symptom-Based, QEEG-Based, and Analog/QEEG-Based Remedial Neurofeedback Training to Traditional Treatment Plans. [Abstract]. *Journal of Neurotherapy*. Vol 8:4.
- Sherlin, L., & Congedo, M., (2004). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA) [Abstract]. *Journal of Neurotherapy*. Vol 8:2.
- Sherlin, L., & Congedo, M., (2003). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA) [Abstract]. *Applied Psychophysiology and Biofeedback*. Vol 28:40 p311.

- Budzinski, T., Budzinski, H., & Sherlin, L. (2002). Short and Long Term effects of Audio Visual Stimulation (AVS) on an Alzheimer's Patient as documented by Quantitative Electroencephalography (QEEG) and Low Resolution Electromagnetic brain Tomography (LORETA) [Abstract]. *Journal of Neurotherapy*. Vol 6:1.

Presentations & Lectures:

- Sherlin, L. (May 2007). Independent Component Analysis (ICA): new advances in guiding neurofeedback intervention. . In Congedo, M. (Chair), LORETA, ICA and other advanced modeling. Symposium conducted at the Applied Neuroscience for Healthy Brain Function, Nijmegen, The Netherlands.
- Stevens, L. & Sherlin, L. (2007). A Movie of Continuous EEG Changes Occurring Across Hypnotic Induction, Deepening, and Suggestions. Video presentation as part of a symposium entitled “EEG Spectral, Coherence, MRI, and Database Analyses: Hypnosis and Pain” presented at the Association for Applied Psychophysiology and Biofeedback 38th Annual Meeting, Monterey, California, February 15-18.
- Greene, M., Stevens, L., & Sherlin, L. (2007). Continuous EEG Power Spectral and LORETA Virtual MRI Analyses Throughout a 7-Stage Clinical Hypnosis Trance Process. Paper presented as part of a symposium entitled “EEG Spectral, Coherence, MRI, and Database Analyses: Hypnosis and Pain” presented at the Association for Applied Psychophysiology and Biofeedback 38th Annual Meeting, Monterey, California, February 15-18.
- Wyckoff, S., Stevens, L., Sydeman, S., Wirtz, D., & Sherlin, L. (2007). QEEG Normative Database Comparison Across 7 Stages of Hypnotic Trance. Paper presented as part of a symposium entitled “EEG Spectral, Coherence, MRI, and Database Analyses: Hypnosis and Pain” presented at the Association for Applied Psychophysiology and Biofeedback 38th Annual Meeting, Monterey, California, February 15-18.
- Stevens, L., Pisano, D., & Sherlin, L. (2007). Synchronizing the Brain with Hypnosis: Effects of Hypnosis on EEG Coherence. Paper presented as part of a symposium entitled “EEG Spectral, Coherence, MRI, and Database Analyses: Hypnosis and Pain” presented at the Association for Applied Psychophysiology and Biofeedback 38th Annual Meeting, Monterey, California, February 15-18.
- Greene, M., Stevens, L., & Sherlin, L. (2007). Continuous 19-Channel EEG and Simulated MRI Recordings Throughout a 7- Stage Clinical Hypnosis Trance Process. Paper presented as part of a symposium entitled “EEG Brain map and MRI Studies of Clinical Hypnosis: Power Spectral, Normative Database, and Coherence Analyses” at the ASCH-SCEH 1st Joint Annual Meeting, Dallas, Texas, January 19-23.

- Wyckoff, S., Stevens, L., Sydeman, S., Wirtz, D., & Sherlin, L. (2007). Quantitative EEG Normative Database Analysis of Clinical Hypnosis. Paper presented as part of a symposium entitled “EEG Brain map and MRI Studies of Clinical Hypnosis: Power Spectral, Normative Database, and Coherence Analyses” at the ASCH-SCEH 1st Joint Annual Meeting, Dallas, Texas, January 19-23.
- Pisano, D., Stevens, L., & Sherlin, L. (2007). Effects of Clinical Hypnosis on EEG Coherence: Synchronizing the Brain with Hypnosis. Paper presented as part of a symposium entitled “EEG Brain map and MRI Studies of Clinical Hypnosis: Power Spectral, Normative Database, and Coherence Analyses” at the ASCH-SCEH 1st Joint Annual Meeting, Dallas, Texas, January 19-23.
- Stevens, L. & Sherlin, L. (2007). A Movie of Continuous EEG Changes Occurring Across Hypnotic Induction, Deepening, and Suggestions. Video presentation as part of a symposium entitled “EEG Brain map and MRI Studies of Clinical Hypnosis: Power Spectral, Normative Database, and Coherence Analyses” at the ASCH-SCEH 1st Joint Annual Meeting, Dallas, Texas, January 19-23.
- Sherlin, L., Congedo, M., & Kropotov, J. (September 2006). sLORETA – Tomographic Analysis and Feedback. Roundtable presentation at the 1st annual meeting of the Society of Applied Neuroscience, Swansea, Wales.
- Sherlin, L., Budzynski, T., Budzynski, H.K., & Congedo, M. (September 2006). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). Oral paper presentation at the 1st annual meeting of the Society of Applied Neuroscience, Swansea, Wales.
- Sherlin, L. (September 2006). Qualitative and Quantitative Analysis of a Single Case Study Examining the Effects of Neurofeedback Training in an Autism Diagnosed Child. Paper Presentation at the 14th annual meeting of the International Society for Neuronal Regulation, Atlanta, GA.
- Wyckoff, S., Stevens, L., & Sherlin, L. (September 2006). A Normative Database Analysis of EEG Effects of Clinical Hypnosis. Paper Presentation at the 14th annual meeting of the International Society for Neuronal Regulation, Atlanta, GA.
- Simms, L., Davis, R., Bodenhamer-Davis, E., & Sherlin, L. (September 2006). QEEG Findings with Adults Reporting a History of Sex Addiction. Paper Presentation at the 14th annual meeting of the International Society for Neuronal Regulation, Atlanta, GA.

- Sherlin, L., Townsend, A., & Hall, J. (March 2006). sLORETA Analysis of Alzheimer's Disease. Paper presentation at the 37th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Portland, OR.
- Townsend, A., Sherlin, L., & Hall, J. (March 2006). sLORETA and QEEG Correlations with the Alzheimer's Disease Assessment Scale. Paper presentation at the 37th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Portland, OR.
- Wyckoff, S., Stevens, L., & Sherlin, L. (March 2006). A Normative Database Analysis of EEG Effects of Clinical Hypnosis. Paper Presentation at the 37th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Portland, OR
- Larsen, S., Yee, W.K., Gerbarg, P., Brown, R.P., Gunkelman, J., Sherlin, L. (February 2006). Neurophysiological Markers of Sudarshan Kriya Yoga Practices: A Pilot Study. Paper presentation at the World Conference of Expanding Paradigms: Science, Consciousness & Spirituality, All India Institute of Medical Sciences, New Delhi, India.
- Sherlin, L., Townsend, A., & Hall, J. (September 2005). sLORETA Analysis of Alzheimer's Disease. Paper presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Morgan, E., & Sherlin, L. (September 2005). Cognitive Switching Deficits Reflected in the EEG. Paper presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Townsend, A., Sherlin, L., & Hall, J. (September 2005). sLORETA and QEEG Correlations with the Alzheimer's Disease Assessment Scale. Paper presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Sherlin, L., Budzynski, T., Budzynski, H.K., Congedo, M. Fischer, M.E., Goldberg, J., Ashton, S., & Buchwald, D. (March 2005). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). Paper presentation at the 36th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.
- Sherlin, L., Budzynski, T., Budzynski, H.K., & Congedo, M. (March 2005). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). Poster presentation at the 36th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.

- Morgan Canyock, E., Sherlin, L., & Baird, B. (March 2005). Cognitive Switching Deficits Reflected in the EEG. Paper presentation at the 36th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.
- Sherlin, L., Budzynski, T., Budzynski, H.K., Fischer, M.E., Goldberg, J., Ashton, S., & Buchwald, D. (August 2004). Low Resolution Electromagnetic Tomography (LORETA) in Monozygotic Twins Discordant for Chronic Fatigue Syndrome (CFS). Paper presentation at the 12th annual meeting of the International Society for Neuronal Regulation, Ft. Lauderdale, FL.
- Sherlin, L., & Congedo, M. (April 2004). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the 35th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Colorado Springs, CO.
- Sherlin, L., & Congedo, M. (April 2004). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA). Poster presentation at the 35th annual meeting of the Association of Applied Psychophysiology and Biofeedback, Colorado Springs, CO.
- Sherlin, L., & Congedo, M. (September 2003). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the 11th annual meeting of the International Society for Neuronal Regulation, Houston, TX.
- Smith, P., Sams, M., & Sherlin, L. (September 2003). The Neurological Basis of Eating Disorders. I: EEG Findings and the Clinical Outcome of Adding Symptom-Based, QEEG-Based, and Analog/QEEG-Based Remedial Neurofeedback Training to Traditional Treatment Plans. Paper presentation at the 11th annual meeting of the Society for Neuronal Regulation, Houston, TX
- Sherlin, L., & Congedo, M. (March 2003). Obsessive Compulsive Disorder Localized using Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the 34rd annual meeting of the Association of Applied Psychophysiology and Biofeedback, Jacksonville, FL
- Lubar, J.F., Congedo, M., & Sherlin, L. (September 2002). LORETA of Cerebral Activity in Chronic Depressive Disorder. Paper presentation at the 10th annual meeting of the Society for Neuronal Regulation, Scottsdale, AZ.
- Budzynski, T., Sherlin, L., & Seiver, D. (September 2002). QEEG, LORETA and SKIL Analyses of Monozygotic Twins Discordant for Chronic Fatigue Syndrome. Panel Discussion presentation at the 10th annual meeting of the Society for Neuronal Regulation, Scottsdale, AZ.

- Gurnee, R., & Sherlin, L. (September 2002). Learning Disabilities Case Study: Elevated Beta correlating with ADHD, Auditory Processing Disorder, Dyslexia, and Math Learning Disability. Poster presentation at the 10th annual meeting of the Society for Neuronal Regulation, Scottsdale, AZ.
- Budzinski, T., & Sherlin, L. (March 2002). Short and Long Term effects of Audio Visual Stimulation (AVS) on an Alzheimer's Patient as documented by Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the 33rd annual meeting of the Association of Applied Psychophysiology and Biofeedback, Las Vegas, NV.
- Budzinski, T., & Sherlin, L. (February 2002). Short and Long Term effects of Audio Visual Stimulation (AVS) on an Alzheimer's Patient as documented by Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the annual meeting Future Health, Miami, FL.
- Budzinski, T., & Sherlin, L. (October 2001). Short and Long Term effects of Audio Visual Stimulation (AVS) on an Alzheimer's Patient as documented by Quantitative Electroencephalography (QEEG) and Low Resolution Electromagnetic brain Tomography (LORETA). Paper presentation at the 9th annual meeting of the Society for Neuronal Regulation, Monterey, CA.
- Sherlin, L. (April 2001). LORETA differences in adult ADHD and non-clinical controls during three neuropsychological tasks. In J.F. Lubar (Chair), Low Resolution Electromagnetic Tomography (LORETA) in Adult ADHD. Symposium conducted at the 32nd annual meeting of the Association of Applied Psychophysiology and Biofeedback, Raleigh-Durham, NC.

Professional Workshops:

- Sherlin, L., & Gunkelman, J. (September 2006). Quantitative Electroencephalography – Back to the Basics (Days 1 & 2). Workshop presentation at the 14th annual meeting of the International Society for Neuronal Regulation, Atlanta, GA.
- Sherlin, L., & Demos, J. (September 2005). BCIA Didactic Training on Basic Neurophysiology & Neuroanatomy. Workshop presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Sherlin, L., & Demos, J. (September 2005). BCIA Didactic Training on Research and Psychopharmacological Considerations. Workshop presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Sherlin, L., & Demos, J. (September 2005). BCIA Didactic Training on Professional Conduct. Workshop presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.

- Sherlin, L., & Myer, D. (September 2005). QEEG & LORETA analysis: Details you were afraid to ask. Workshop presentation at the 13th annual meeting of the International Society for Neuronal Regulation, Denver, CO.
- Congedo, M., Lubar, J.F., & Sherlin, L. (September 2003). Exact Statistics for qEEG and LORETA Data: A Theoretical Tutorial and a Computer Program for Performing Analysis. Workshop presentation at the 11th annual meeting of the Society for Neuronal Regulation, Houston, TX.
- Congedo, M., Lubar, J.F., Pascual-Marqui, R., & Sherlin, L. (September 2002). Combining Enhanced QEEG and LORETA Analysis: Clinical Intervention and Research. Workshop presentation at the 10th annual meeting of the Society for Neuronal Regulation, Scottsdale, AZ.
- Lubar, J.F, Congedo, M., Joffe, D., Sherlin, L. (October 2001). LORETA 3-D Neurofeedback, Normative Database and New Findings (Part I and II). Workshop presentation at the 9th annual meeting of the Society for Neuronal Regulation, Monterey, CA.

Honors/Awards:

- Student Award, 1st annual meeting of the Society of Applied Neuroscience, Swansea, Wales.
- Student Scholarship Award, 14th annual meeting of the Society for Neuronal Regulation, Atlanta, GA.
- Citation Paper, 37th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Portland, OR.
- Student Scholarship Award, 13th annual meeting of the Society for Neuronal Regulation, Denver, CO.
- Certificate of honors by colleagues of the clinical psychology specialization for exceptional skill in cohort leadership. Presented by Scottsdale, AZ cohort of the Harold Abel School of Psychology, 2004-2005 Year-in-Residence, Capella University.
- Best Student Paper Presentation, 36th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX. Presented by Thought Technology, Inc.
- Citation Paper, 36th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.

- Citation Poster, 36th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.
- Student Scholarship Award, 36th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Austin, TX.
- Student Scholarship Award, 12th annual meeting of the Society for Neuronal Regulation, Ft. Lauderdale, FL.
- Student Scholarship Award, 35th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Colorado Springs, CO.
- Student Scholarship Award, 11th annual meeting of the Society for Neuronal Regulation, Houston, TX.
- Student Scholarship Award, 34th Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Jacksonville, FL.
- Citation Paper, 33rd Annual Meeting of the Association of Applied Psychophysiology and Biofeedback, Las Vegas, NV.
- Outstanding Undergraduate Research Assistant, Department of Psychology, The University of Tennessee, May 2001, Knoxville, Tennessee.

Professional Membership:

- Society of Applied Neuroscience. Member since 2005.
- Association of Applied Psychophysiology and Biofeedback- Neurofeedback Division. Member since 2005.
- Association of Applied Psychophysiology and Biofeedback. Member since 2005.
- American Psychological Association. Member since 2002.
- International Society for Neurofeedback and Research (Previously the International Society for Neuronal Regulation). Member since 2002.