

CURRICULUM VITAE

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Summary

Research and Teaching

- Taught and designed *Statistics and Research and Methods* classes in univariate and multivariate analysis of variance, regression analysis (linear and logistic), factor analysis, path analysis, and structural equation modeling
- Formal training and advanced teaching and applications experience in Statistics, Path Analysis/Structural Equation Modeling, and Research Methodology; experience includes a working knowledge of six statistical software packages: SPSS, Amos, SAS, BMDP, LISREL, and Systat.
- *Product and services market data analysis* – developed techniques combining data mining with trend analysis, time-series models, structural equation models, and factor analysis.
- Co-Developed InnerLife.com (www.InnerLife.com), a behavioral health site utilizing algorithms to match patients to treatment plans and therapists, thus optimizing outcomes.
- Researched healthcare matching models, optimal treatment psychotherapy programs, and outcomes patterns for alcoholic research patients (NIMH grant); conducted similar research with cocaine and amphetamine addicts under a separate grant (NIDA).
- *Focus group design and analysis* using demographics, logistic regression, and chi-square or likelihood analysis to render selection predictions
- Implemented research methods design, analysis, network administration, and database management of behavioral treatment outcomes evaluations programs, and psychiatric drug treatment effectiveness studies.

Management

- Designed and implemented skills training programs for a full spectrum of computer users; beginning to advanced workshops in Windows XP/Vista, MS Office applications (Word, Excel, PowerPoint, and Access), networks, and exercises in Internet/Web research
- Operated and grew Center for Behavioral HealthCare Technologies, Inc. (a behavioral treatment planning and outcomes management services company) including; product concept, funding, technical development and programming, business planning, operations, and marketing...without capital funding.
- Accomplished ground level planning, organization, engineering, and operations management for a start-up state-of-the-art medical electronics assembly facility.
- A documented track-record of well-honed verbal and written communications, presentation, and training/teaching skills to all levels of audiences

Technology

- Design and implementation of multimedia PC and internet-deployed computer/patient interface systems for managed behavioral healthcare outcomes tracking with CD-ROM packaging.
- Developed health practitioner training programs written in multi-media Visual Basic on CD-ROM.
- Developed electrophysiological measuring techniques and instruments, electroencephalographic assessment/recording of multi-task performance optimization, neuropsychological assessments with computers and electronic instrumentation, and personality and cognitive abilities profiles
- Ten years of experience in the development of custom software systems, sophisticated uses of computers in product development, business management and Computer Aided Design (CAD)
- Invented unique microelectronic optocoupled switch
- Invented portable EEG feedback monitor

Education

- Ph.D. , University of California, Santa Barbara; Clinical Psychology
- MS, University of California, Santa Barbara; Statistics/Methodology (Pending)
- MS, California Lutheran University; Counseling Psychology
- BS, University of California, Irvine; Psychology & Physics
- Post-Doctoral Research Fellow, Michigan State University and Vendell Psychiatric Hospital Systems; 9/94-9/95
- Psychology Intern, Camarillo State Hospital; 9/93-/9/94

Professional Experience

2004-Pres Lecturer / Instructor

Ventura County Community College District
Ventura College and Oxnard College

Teach:

Statistics for the Behavioral Sciences
Research Methodology
Physiological Psychology
Theories of Personality
Developmental Psychology
Introductory Psychology

Antioch University Lecturer/Instructor

Statistics for the Behavioral Sciences (QNT190 & QNT389)
Integrating Science and Practice (PSC740)

2003-Pres Research Consultant/Contractor

United Behavioral Health
San Francisco, CA
Contractor/Director of Clinical Analytics

The Holman Group
Canoga Park, CA
Research Analyst

Los Angeles Unified School District / KYDS Program
Van Nuys, CA
Contractor/Research Analyst

- Conducted research and analysis in behavioral health sciences to evaluate and improve development of clinical programs.
- Provided consultation to customers regarding research programs.

- Served as the liaison between research, operations, and sales/marketing.
- Developed new products and tools for clinical quality management, provider relations, and case management.
- Developed and managed research teams.

2010-2012 *Research Psychologist*

*Stars Behavioral Health Group
Oakland and Long Beach, CA*

2006-Pres *WebPsych, Inc.
Sausalito, CA
VP/Research & Development/Co-founder
www.InnerLife.com*

Reinvented CBHT (below) and Systematic Treatment Selection by developing a system targeted and tailored for public consumption, hence creating an expanded market, as well as opening reliable and empirically-based self-help mental health options to lay users.

2001-2005 *Center for Behavioral Healthcare Technologies, Inc.
Ventura, CA
Co-founder*

Co-conceptualized the revolutionary mental healthcare treatment planning and outcomes tracking system, *Systematic Treatment Selection*. Responsible for product concept, funding, technical development and programming, business planning, operations, and marketing. Specifically:

- Conceived software to match mental health patient variables to optimal treatment plan from a 15 minute patient self-responding IVR session, ultimately resulting in 10-30% less time in treatment, \$15-\$20 reductions in mental health intakes, 70-90% accurate probable projected course of treatment at intake, and 20-40% increases in patient satisfaction.
- Conducted high level university-based research over six years to test hypotheses and develop test items and factors (research funded by grants totaling over \$5M from NIMH and NIDA)
- Wrote first code in Basic for *Systematic Treatment Selection* in 1993 and demonstrated the computer program to 1000 psychological professionals at the International SPR Convention in Budapest, Hungary.
- Expanded the program to assess symptoms, plot outcomes, and provide “best practices” models in Windows 95 platform and Access database.

- Negotiated business contracts related to product development, sales, market entry, and internet deployment; implemented CBHT, Inc./STS web system without venture funding (i.e., Web system based on \$750K negotiated contract).
- Conducted high-level presentations to healthcare industry executives and healthcare providers (HealthNet, United Behavioral Health, The Holman Group, American Psychological Association, Behavioral Informatics Tomorrow Conferences, Society for Psychotherapy Research Conventions)
- Conceived, developed, and implemented fully deployed Web-enabled system for HMO's, patients, and providers for browser or IVR access (in both English and Spanish)
- Managed current system use with US and Argentinean agencies. Setup systems and managed all aspects of logistics and operations for implementation in Canoga Park, CA; Las Vegas, NV; Buenos Aires, Argentina; Stuttgart, Germany.

University of California, Santa Barbara
Instructor, Researcher and
Director of Data Management, Psychotherapy Research Programs

- Designed curricula and taught graduate level statistics courses in univariate and multivariate analysis, regression analysis, and structural equation modeling (taught 2-3 courses/year to classes of 20-25 students in a computer/stats lab).
- Designed and managed Unix and Access databases for outcomes and treatment planning research programs involving subject populations from 300 to 5000 and as many as 250 variables per subject.
- Functioned as general statistics, methodology, and computer advisor for over 100 graduate students, faculty, and staff resulting in 12 doctoral dissertations and over 50 scholarly publications.
- Case manager and researcher in a four year \$2.5M grant program researching over 200 dual-diagnosed male alcoholics in committed relationships. Hands-on clinical experience included individual therapy, intakes, and administration of assessment tests and breathalyzers. Results of this research changed the focus in some alcoholic rehab programs for improved success rates, and is also incorporated into STS (see above) matching algorithms.

Semtech Corporation, Camarillo, CA
Marketing Research Analyst

Job duties and goals were to develop global marketing analysis and penetration programs and procedures for bipolar semiconductors. During my tenure, corporate revenues grew from \$80M/year to \$200M/year. Specifically:

Developed synchronized and real-time online systems for data input from field and regional sales offices and agents.

Developed accurate and reliable sales forecasting models and tools, which included:

- Cogent and useable reports displaying selectable market application, customer, product, region, and business unit (cost center) information
- Integrated forecast data into historical data for time series regressions and comparisons
- Generated graphs and charts to show trends toward goals, comparisons against other regions/divisions, or relative product share of market.
- Provided manufacturing precise product forecast information. Resulted in 40% manufacturing lead time reductions; 20%-50% inventory reductions across products
- Provided useable statistical analysis of blended data from path analysis, time series regressions, and cluster analysis in order to forecast future trends.

Also,

- Set up systems for magazine and journal inquiries to database for query
- Developed procedures for analyzing Website hits and downloads
- Business card scanning and database creation
- Business contacts available in a database
- Database searchable and available anywhere in the world via PC, Palm, or IVR

1994-1995 Michigan State University E. Lansing, MI

Adjunct Assistant Professor (Post doctoral fellow)

- Designed, set-up, and supervised data entry operation for N=25000 Outcomes study
- Performed statistical analyses on behavioral outcomes data.
- Wrote software for *patient level administration* of diagnostic, demographic, social history, and treatment selection evaluation
- Taught and supervised students and graduate assistants in related areas of data entry applications, procedures, and analyses.
- Developed unique software routine for rapid and discriminant assessment of ADD

1993-1994 Camarillo State Hospital and Developmental Center Camarillo, CA

Psychology Intern

- One year rotation in Children's Unit*
- One year rotation in Schizophrenia Research Unit of UCLA Neuropsychiatric Research Center
- Six month rotation in Developmentally Disabled Sex Offender unit
- Performed psychophysiological testing (EDR, EMG, respiration) on patients and non-patients as part of an advance Respirodome study for Jensen Drug Co.
- Conducted research in implicit/explicit memory differences between schizophrenia patients and non-patients.

* Rotations are part-time

PUBLICATIONS

Beutler, L.E. & Williams, O.B. (1995). Computer applications for the selection of optimal psychosocial therapeutic interventions. *Behavioral Healthcare Tomorrow*, 4, 66-68.

Beutler, L.E. and Williams, O.B.(2002). www.innerlife.com [Internet-deployed interactive system]. Oxnard, CA: Center for Behavioral HealthCare Technologies, Inc.

Beutler, Larry E. & Williams, Oliver B. (1998). Thumbnail systematic assessment and treatment matching. In Gerald P. Koocher, John C. Norcross, & Sam S. Hill III (Eds.), *Psychologists' Desk Reference* (pp. 219-225). Oxford University Press

- Corrigan, P.W., Stephenson, J., & Williams, O.B. (1998). Limits to remediating verbal recall in schizophrenia. Behavior Therapy, (submitted for publication).
- Corrigan, P.W., Williams, O.B., McCracken, S. Kommona, S., Edwards, M. & Brunner, J. (1998). Staff attitudes that impede the implementation of behavioral treatment programs. Behavior Modification, 22, 548-562.
- Fisher, D., Beutler, L. E., & Williams, O. B. (1999). STS Clinician Rating Form: Patient assessment and treatment planning. Journal of Clinical Psychology, 55, 825-842.
- Harwood, T.M. and Williams, O.B. (2003). Identifying Treatment Relevant Assessment: The STS. In Beutler, L.E. and Groth-Marnat, G. (Eds.), Integrative Assessment of Adult Personality (2nd rev). New York: Guilford Press.
- Saddler, D., Williams, O.B. & Gallick, M. (1998). A path analysis of learning style, study style, and academic achievement in college students. Journal of Educational Psychology (Submitted for publication)
- Williams, O. B. (1994). The mediating effects of shame and social support on distress and attributional processing in adults abused as children: A structural model. Dissertation Abstracts International.
- Williams, O.B. (1986). How to Plan a Hybrid Assembly Facility. Hybrid Circuit Technology, 3, 25-31.
- Williams, OB. & Corrigan, P.W. (1992). The differential effects of parental alcoholism and mental illness on their adult children. Journal of Clinical Psychology, 48, 406-414.

GRANTS

Principal Investigator, A Structural Model of Twelve-Step Group Process. NIMH DA-04-008, 2004-2008 (\$1,455,873) (Submitted 2/20/04).

Co-Principal Investigator (with Larry Beutler), Virtual Reality (VR) Training for Psychotherapists, UCSB Faculty Research Award, 2000-2001 (\$14,000).

EDITORSHIPS

Ad hoc Editor, Journal of Consulting and Clinical Psychology, 1992-1995.

POSTER SESSIONS & PRESENTATIONS

Beutler, L.E., Harwood, T.M., Williams, O.B., Romanelli, R.E., & Kabasakal, A. “*Virtual Reality: A Methodology for Training Psychotherapists?*” Society for Psychotherapy Research (SPR, Santa Barbara, June 2002)

Williams, O.B. & Beutler, L. E. A Computer Program for a Systematic and Integrative Approach to the Selection of Optimal Psychosocial Therapeutic Interventions. Society for Psychotherapy Research/European Conference; Budapest, Hungary; Sept. 1993.

Saddler, D., & Williams, O.B. A path analysis of learning style, study style, and academic achievement in college students. Western Psychological Association Conference; Phoenix, AZ; April, 1993.

*Designed curriculum

WORKSHOPS AND PRESENTATIONS

- 1994/1995 Applications of path analysis in treatment efficacy research,
Michigan State University, Faculty/student symposium
- 1994-1998 Drugs and Human Behavior; Graduate level course examining the
neuropharmacological and neuropsychological effects of medical
and recreational state-altering drugs; University of California, Santa
Barbara
- 1992 Optimal "small n" models for LISREL and EQS, California Lutheran
University, Faculty symposium
- 1992 Fast Fourier analysis of EEG waveforms with IBM/PCs, Brain and
Mind Symposium, Los Angeles, CA.
- 1990-1992 Applications of personal EEG feedback devices; Biofeedback
Conference, San Diego, CA.

HONORS

Doctoral Scholars Fellowship, 1990

President's Predoctoral Fellowship, 1991

LANGUAGES

Speak, read, and write German and Spanish