

# CURRICULUM VITAE

## PERSONAL DATA

Name: Edward R. Simco

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Nova Southeastern University  
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## EDUCATION:

B.S.	University of Pittsburgh, Physics	1961
M.S.	University of Pittsburgh, Physics	1965
Ph.D.	Nova University, Science Education	1971

## PROFESSIONAL EXPERIENCE:

### Academic and Administrative

1993-Present Professor, Center for Psychological Studies, Nova Southeastern University, Ft. Lauderdale, Florida.

1989-1993 Dean, Center for Computer and Information Sciences, and Associate Professor, Center for Computer and Information Sciences, Nova University, Ft. Lauderdale, Florida.

1987-1989 Dean, Center for Computer Science, Associate Professor, Nova University, Ft. Lauderdale, Florida.

1984-1987 Director, Department of Computer Science  
Director, Computer Center, and Associate Professor, Nova University, Ft. Lauderdale, Florida.

1981-1984 Director, Computer Center and Associate Professor, Nova University, Ft. Lauderdale, Florida.

1976-1981 Director, Computer Center, Director, Computer Science Program, and Associate Professor, Nova University, Ft. Lauderdale, Florida.

1973-1976 Director, Computer Center and Associate Professor, Nova University, Ft. Lauderdale, Florida.

- 1972-1973 National Lecturer, Ed.D. Program for Educational Leaders, Nova University, Ft. Lauderdale, Florida.
- 1972-1973 Director, Professional Semester and Teacher Intern Program, Nova University, Ft. Lauderdale, Florida.
- 1972-1973 Director, Research and Evaluation, Institute of Child Centered Education, Nova University, Ft. Lauderdale, Florida.
- 1971-1972 Post Doctoral Fellow, Nova University, Ft. Lauderdale, Florida.
- 1969-1971 Research Fellow, Nova University, Ft. Lauderdale, Florida.
- 1966-1968 Research Assistant, Individually Prescribed Instruction Project, The Learning Research and Development Center, University of Pittsburgh, Pittsburgh, Pennsylvania.
- 1965-1967 Teacher of Physics and Mathematics and Head of the Science Department, South Allegheny High School, Liberty, Pennsylvania.
- 1965 Research Scientist, Research Center, Allegheny Ludlum Steel Corporation, Brakenridge, Pennsylvania.
- 1963-1965 Teaching Assistant, Department of Physics, University of Pittsburgh, Pittsburgh, Pennsylvania.
- 1962-1963 Research Scientist, Nuclear Reactor and Design Department, Bettis Atomic Power Division, Westinghouse Electric Corporation, West Mifflin, Pennsylvania.

**Academic Programs**

- 1990 Created the continuing education program for computer professionals for the Center for Computer and Information Sciences.
- 1989 Created the Center for Computer and Information Sciences at Nova University.
- 1987 Created the Center for Computer Science at Nova University.
- 1986 Created the program and developed the curriculum for the Doctoral Degree in Computer Science at Nova University.
- 1979 Created the program and developed the curriculum for the Master's Degree in Computer Systems Management at Nova University.
- 1978 Created the Department of Computer Science at Nova University.
- 1975-1976 Created the program and developed the curriculum for the Bachelor's and Master's Degree in Computer Science at Nova University.

## **Non-Academic**

- 1987            Designed and implemented the campus wide fiber optic computer network at Nova University.
- 1985            Implemented the first UNIX operating system (BSD 4.2) for academic use at Nova University.
- 1985            Designed and implemented the first separate mini-computer systems (VAX, 11/780) for academic and administrative use at Nova University.
- 1975            Designed and implemented the first time-sharing computing system for academic and administrative use at Nova University.

## **Computer Systems and Software**

- 1993-2001      Designed, programmed, documented, and revised an interactive statistical and mathematical software package.
- 1988-1993      Designed, programmed, documented, and revised a computer simulation software package.
- 1985-1988      Designed, programmed, documented, and revised the University School of Nova University student information software system.
- 1983-1988      Designed, programmed, documented, and revised Nova University's personnel management and accounting software system.
- 1973-1988      Designed, programmed, documented, and revised Nova University's batch and interactive statistical and mathematical analysis software packages.

## **TEACHING EXPERIENCE**

Graduate and undergraduate courses taught:

Introduction to Statistics  
Intermediate Statistics  
Advanced Statistics  
Probability and Statistics  
Multiple Regression and Correlation Analysis  
Multivariate Statistics  
Mathematical Statistics  
Cluster Analysis  
Modeling and Simulation  
Design of Simulation Experiments

Experimental Design  
Advanced Research Design  
Research Methodology  
Factor analysis  
Psychometrics  
Test and Measurement  
FORTRAN  
Pascal  
Artificial Intelligence and Expert Systems  
Matrix Algebra  
Discrete Mathematics  
Numerical Analysis  
Design and Analysis of Computer Algorithms  
Physics

### **CONSULTING AND PROGRAM EVALUATIONS**

Biofeedback Certification Institute of America, Wheat Ridge, Colorado (1994).

Motorola Corporation, Boynton Beach, Florida (1991-1993).

Harris Corporation, Ft. Lauderdale, Florida (1990).

Motorola Corporation, Plantation, Florida (1989-1993).

IBM Corporation, Boca Raton, Florida (1988-1993).

Citicorp Latino Inc., Pompano Beach, Florida (1987)

Regression Analyses of Test Scores and Merit Pay, School Board of Broward County, Florida (1984-1985).

Role of Computers in Legal Education, Association of American Law School Conference, Innisbrook, Florida (1983).

Broward County Bar Association, Judicial Pool, Broward County, Florida (1982).

Computer-System Dynamics, RSS Associates, Inc., Arlington, Virginia (1982).

Gould Inc., S. E. L. Computer Systems Division, Plantation, Florida (1982).

Bendix Avionic Corporation, Ft. Lauderdale, Florida (1981).

Camp Safety Institute Assessment, Scranton, Pennsylvania (1981).

Board of County Commissioners, Data Processing Center, Broward County, Florida (1975).

Comprehensive Youth Study Project, Broward County Criminal Justice Planning, Ft. Lauderdale, Florida (1974).

State Language Arts Conference Evaluation, Florida Migratory Child Compensatory Program (1974).

Strategy Research Corporation, Miami, Florida (1974).

Educational Testing Service, Princeton, New Jersey (1973-1975).

Computer Based Instructional Management System, Learning Disabilities Program, University of South Dakota, Vermillion, South Dakota (1973).

Half Hollow Hills Assessment Program, Half Hollow Hills School District, New York (1973).

Fairfield-Suisun Assessment Program, Fairfield-Suisun Unified School District, California (1972).

Evaluation of Selected Drug Rehabilitation Programs of the Broward County Narcotics Guidance Council, Broward County, Florida (1972).

Dade County Dropout Prevention Assessment Project, Dade County Schools, Miami, Florida (1971).

Merrick Assessment Program, Merrick Public Schools, Merrick, New York (1971).

K-6 Integrated Mathematics and Science Development Project, Learning Research Associates, New York, New York (1970).

## **PUBLICATIONS AND PAPERS**

- Carrasco, R.M., Grups, J., Evans, B., Simco, E., & Mittenberg, W. (In Press). Apparently abnormal Wechsler Memory Scale index score patterns in the normal population. *Applied Neuropsychology: Adult*.
- Voluse, A.C., Gioia, C.J., Sobell, L.C., Dum, M., Sobell, M.B., & Simco, E.R. (2012). Psychometric properties of the drug use disorders identification test (DUDIT) with substance abusers in outpatient and residential treatment. *Addictive Behaviors, 37*, 36-41.
- Odland, A.P., Martin, P., Perle, J., Simco, E.R., & Mittenberg, W. (2011). Rates of apparently abnormal MMPI-2 profiles in the normal population. *The Clinical Neuropsychologist, 25* (7), 1134-1144.
- Foley, J., Golden, C., Simco, E., Schneider, B., McCue, R., & Shaw, L. (2009). Corollary-and discrepancy-based approaches for examining the appropriateness of premorbid cognitive estimation in geriatric schizophrenia. *International Journal of Neuroscience, 119*, 1810-1829.

- Myers, A., Mantilla, M., Tavarez, B., Kuemmel, A., Simco, E.R., and Mittenberg, W. (August, 2009). *Validation of the Mini Mental State Exam in Ecuador*. Presented at the American Psychological Association Convention, Toronto, Canada.
- Fins, A.I., Siebern, A.T., and Simco, E. (2008). *Can Sleep Diaries Be Accurately Completed Retrospectively?* Presented at the 22<sup>nd</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC, Baltimore, Maryland.
- Foley, J., Golden, C., Simco, E., Schneider, B., McCue, R., & Shaw, L. (2008). Pattern of memory compromise in chronic geriatric schizophrenia, frontotemporal dementia, and normal geriatric controls. *Acta Neuropsychiatrica*, 20 (1), 9-19.
- Vakili, S., Sobell, L. C., Sobell, M. B., Simco, E. R., & Agrawal, S. (2008). Using the Timeline Followback to determine time windows representative of annual alcohol consumption with problem drinkers. *Addictive Behaviors*, 33, 1123–1130.
- Roy, M., Sobell, L. C., Sobell, M. B., Simco, E. R., Manor, H., Palmerio, R., & Dum, M. (2008). Comparison of the Quick Drinking Screen and the Alcohol Timeline Followback with Outpatient Alcohol Abusers. *Substance Use and Misuse*, 43, (14) 2116-2123.
- Bedregal, L. E, Sobell, L. C., Sobell, M. B., & Simco, E. R. (2006). Psychometric characteristics of a Spanish Version of the DAST-10 and the RAGS. *Addictive Behaviors*, 31, 309-319.
- Helvig, T., Sobell, L. C., Sobell, M. B, & Simco, E. R. (2006). Smokers' Narrative Accounts of Quit Attempts: Aids and Impediments to Success. *Psychology of Addictive Behaviors*, 20, 219-224.
- Feijó, L., Hernanedz-Reif, M., Field, T., Burns, W., Valley-Gray, S., & Simco, E. (2006). Mothers' depressed mood and anxiety levels are reduced after massaging their preterm infants, *Infant Behavior Development*: 29(3), 476-80.
- Cook, J. M., Orvaschel, H., Simco, E. R., Hersen, M., & Joiner, T. (2004). A test of the tripartite model of depression and anxiety in older adult psychiatric outpatients. *Psychology and Aging*, 19, 444-451.
- Sobell, L.C., Agrawal, S., Sobell, M.B., Leo, G.I., Young, L.J., Cunningham, J.A., and Simco, E.R. (2003). Comparison of a quick drinking screen with the timeline followback for individuals with alcohol problems. *Journal of Studies on Alcohol*, 64, 858-861.
- Millward, G.N., Lewis, J.E., Cass, A.M., & Simco, E.R. (July, 2002). *United States stockbrokers: The cost of success*. Presented at the XXV Annual Convention of the International Congress of Applied Psychology, Singapore.
- Petersen, R., Mittenberg, W., Gass, C., Theroux, S., & Simco, E. (February, 2001). *Estimation of WAIS-III premorbid IQ in neurologic and psychiatric patients*. Presented at 29<sup>th</sup> Annual Meeting of the International Neuropsychological Society, Chicago, IL.
- Cooper, J.T., Beer, M.J., Schiller, A.R., Palamara, L.B., Magazine, L.B., Combs, M.R., & Simco, E.R.

- (August, 2001). *Perceptual bias in the 2000 presidential election in South Florida*. Presented at the American Psychological Association Convention, San Francisco, CA.
- Millward, G.N., Lewis, J.E., Cass, A.M., & Simco, E.R. (August, 2001). *Florida stockbrokers feeling the heat: Assessing clinical and organizational factors*. Presented at the American Psychological Association Convention, San Francisco, CA.
- Sobell, L.C., Sobell, M.B., Agrawal, S., Leo, G.I., Johnson-Young, L., Toneatto, T., & Simco, E.R. (November, 2001). *A longitudinal prospective study of recovery and relapse among untreated alcohol abusers*. Presented at the 35<sup>th</sup> Annual Meeting of the Association for Advancement of Behavior Therapy, Philadelphia, PA.
- Cass, A., Lewis, J., & Simco, E.R. (2000). *Casualties of Wall Street: The walking wounded*. Presented at the American Psychological Association Convention, Washington, D.C.
- Lewis, J., Cass, A., & Simco, E.R. (2000). *Effects of high stress on anxiety, depression, and coping skills: A study of Wall Street stockbrokers*. Presented at the meeting of the XXVII International Congress of Psychology, Stockholm, Sweden.
- Patton, D., Selevan-Eisenstein, D., Montgomery, D., Simco, E., Widmayer, S., & Burns, W. (November, 2000). *QEEG asymmetry rasion is related to intelligence*. Presented at the National Academy of Neuropsychology, Orlando, FL.
- Vayalakkara, J., Devaraju-Backhaus, S., Bradley, J., Simco E. R., & Golden, C. J. (2000). Abbreviated form of the Wisconsin card sort test. *International Journal of Neuroscience* 103(1-4), 131-137.
- Hill, E.L., Gold, S.N., Simco, E.R., Faust, J., & Bornstein, R.F. (August, 1999). *Predictors of dependency among childhood sexual abuse survivors in therapy*. Presented at the American Psychological Association Convention, Boston, MA.
- Kaplan, J., Kelleher, W. J., & Simco, E.R. (August, 1999). *Identification and therapeutic relevance of clients' treatment goals in an older adult clinic*. Presented at the American Psychological Association Convention, Boston, MA.
- Leonard, S.T., Dorfman, W., Burns, J., and Simco, E.R. (August, 1996). *Assessing sexual and physical abuse in adolescents using the MMPI-A*. Presented at the American Psychological Association Convention, Toronto, Canada.
- Van Sickle, T.D., Hersen, M., Simco, E.R., Melton, M.A., and Van Hasselt, V.B. (1996). Effects of physical exercise on cognitive functioning in the elderly. *International Journal of Rehabilitation and Health* 2(2), 67-100.
- Nova University's Three National Doctoral Degree Programs: An Analysis and Formative Evaluation, (with Hughes, E., Nelson, F., and Fischler, A.). Nova University Press, 1977.

Home Start: A School for Parents: A TV Serial on Infancy, Final Report, Phase III (with Segal, M.M.). Department of Health Education and Welfare, Office of Child Development, 1975.

Individualized Evaluations in Individualized Learning (with Flynn, J.M.). Educational Technology, November, 1974, XIV, (11) 36-38.

Home Start: A School for Parents: A TV Serial on Infancy, Final Report, Phase II (with Segal, M.M.). Department of Health Education and Welfare, Office of Child Development, 1974.

Home Start: A School for Parents: A TV Serial on Infancy, Final Report, Phase I (with Segal, M.M.). Department of Health Education and Welfare, Office of Child Development, 1973.

Evaluation. A Textbook-study guide for National Ed.D. Program for Educational Leaders (with Hughes, E.). Nova University Press, 1973.

Applied Educational Research and Evaluation (with Hughes, E.). Nova University Press, 1972.

A Two-Layer Model of the North Atlantic Thermocline (with Niiler, P.P., and La Rue, R.). *Journal of Physical Oceanography*, 1971, (4), 271-277.

A Scheme for the Organization and Classification of Behavioral Objectives in Elementary School Science (with Lehman, R.A.). *Science Education*, 1971, 55 (3), 371-377.

*An Empirical Exploration of Rotter's Need Potential Concept*. (May 1969) Paper presented at the meeting of the Florida Psychological Association, Orlando, FL.

Thermometry at Low Temperatures. Low Temperature Physics Laboratory, University of Pittsburgh, Research Report No. 4, 1965.

Calculation of the Effective Delayed Neutron Fraction ( $\bar{\beta}/\beta_{25}$ ). Bettis Atomic Power Division Westinghouse Electric Corporation (Classified), 1963.

## **GRANTS AND CONTRACTS**

Corporate Education and Training Program, Motorola Corporation, Boynton Beach and Plantation, Florida, 1990-1993, (\$675,000).

Development and implementation of an on-line interactive expert system based dialogue manager. AT&T Corporation, Morristown, New Jersey, 1988, (\$212,000).

An analysis of the UNIX Operating System Source Code, IBM Corporation, Boca Raton, Florida, 1984, (\$50,000).

Semantic Processor Software for the Sentry Tester and the VAX 11/780 computers, Bendix Avionics Corporation, Ft. Lauderdale, Florida, 1982, (\$6,000).



Communication Software for the Sentry Tester and the VAX 11/780 computers, Bendix Avionics Corporation, Ft. Lauderdale, Florida, 1981, (\$1,000).