DEBRA OLSON SOWELL, PH.D.

EDUCATION
Oklahoma State University
　　Ph.D., 1996: Applied Behavioral Studies (Statistics)

University of Nebraska
　　M.A.T., 1975: Mathematics

University of South Dakota
　　B.A., 1971: Major in Mathematics, Minor in Physics

EXPERIENCE

2015-present　Oral Roberts University, Tulsa Oklahoma
　　　　　　　Professor of Mathematics

2008-2014　　Oral Roberts University, Tulsa, Oklahoma
　　　　　　　Vice President of Academic Affairs
　　　　　　　Acting Provost

1997-2008　　Oral Roberts University, Tulsa, Oklahoma
　　　　　　　Dean of Instruction

1995-1997　　Oral Roberts University, Tulsa, Oklahoma
　　　　　　　Associate Dean, School of Arts and Sciences
　　　　　　　Professor and Chair, Department of Computer Science/Mathematics
　　　　　　　Director, ORU Summer Math/Science Academies

1976-1995　　Oral Roberts University, Tulsa, Oklahoma
　　　　　　　Mathematics Department Faculty

1976　　　　　Tulsa University, Tulsa, Oklahoma
　　　　　　　Adjunct Instructor, Mathematics

1974-l975　　University of Nebraska, Lincoln, Nebraska
　　　　　　　Instructor, Extension Division

1971-1973　　Monroe County Public Schools, Key West, Florida
　　　　　　　Mathematics Teacher

PROFESSIONAL AND ACADEMIC ACTIVITIES
I.　Professional Activities
- Mathematical Association of America (M.A.A.) Campus Representative.
- Member of Pi Mu Epsilon (Mathematics Honorary).
- Recording Secretary of Kappa Mu Epsilon (Mathematics Honorary).
- The Visiting Mathematics Lecturer Program for Oklahoma Secondary Schools (M.A.A.).
- Presented Lecture during Mathematics Week at Charles Page High School.
- Presented Lecture at Monte Cassino Junior High School.
- Judge for Oklahoma State Science and Engineering Fair (Mathematics Division).
- Conference on Computers, Oklahoma State University.
- Instructor, Oklahoma State Regents for High Education Summer Academies.
- Member of Student Workshop Committee, 1993 M.A.A. Regional Conference.

- Speaker, National Honor Society (High School) 1994 State of Oklahoma Convention.
- Internet Conference, Oklahoma State University.
- Officer, Oral Roberts University Faculty Senate.
- Wrote three successful Grant Proposals (Approximately $65,000 per year) for Summer Math Academies sponsored by Oklahoma Regents for Higher Education.
- Presented Keynote Address, Mathematics Department End-of-Year Banquet, University of South Dakota.

II.   Honors and Awards
- Oklahoma Science Fair Hall of Fame
- Aberdeen Central High School Alumni Hall of Fame
- Tenured Faculty
- Phi Beta Kappa
- Phi Kappa Phi
- Who's Who in the South and Southwest (Marquis)
- Who's Who in Society (American Publishing)
- 2,000 Notable American Women (American Biographical Institute)
- Who's Who in American Education (National Reference Institute)

III.   Faculty Service
- HLC Self Study Coordinator and Steering Committee Chair (Site Visit, 2007)
- HLC Self-Study Coordinator and Steering Committee Co-Chair (Site Visit, 1997)
- Assessment Coordinator, Department of Mathematics and Computer Science
- Council of Chairs Standing Committees (Promotion and Faculty Development)
- Financial Aid Committee Member
- Arts & Sciences Faculty Senate Treasurer
- Arts & Sciences Faculty Cabinet Member at Large
- Arts & Sciences Curriculum Committee Member

IV.   Publications
1. Type I Error Rates and Powers for the Johansen Test, Pillai-Bartlett Test, and Combs-Algina Test under Covariance Matrix Inequality and Non-Normality, by Debra Olson Sowell (Oral Roberts University), William T. Coombs (Duke University), and James Algina (University of Florida), Social Indicators and Quality of Life Research Methods: Methodological Developments and Issues, Yearbook 2000.
2. Univariate and Multivariate Omnibus Hypothesis Tests Selected to Control Type I Error Rates When Population Variances are Not Necessarily Equal, by William T. Coombs (Oklahoma State University), James Algina (University of Florida), and Debra Olson Sowell (Oral Roberts University), Review of Educational Research, Vol.66, No.2, summer 1996.
3. Dissertation Topic: Power and Robustness of Alternatives to Classic Manova Procedures Under Heteroscedasticity.
4. Introductory Statistics for Business and Economics, by Sowell and Lackritz, 1991, (Brooks/Cole Publishing Company).
5. A Study Guide for Statistics: An Intuitive Approach, 4th Ed., by Debra Sowell, 1981 (Brooks/Cole Publishing Company).
6. Statistics: An Intuitive Approach, 4th Ed. by Weinberg, Schumaker, and Sowell, 1981 (Brooks/Cole Publishing Company).

V.   Presented Papers
Type I Error Rates and Powers for the Johansen Test, Pillai-Bartlett Test, and the Coombs-Algina Tests Under Covariance Matrix Inequality and Non-Normality, by Debra Olson Sowell (Oral Roberts University); William T. Coombs (Oklahoma State University); and James Algina (University of Florida), presented at the National Conference of the American Statistical Association, August 5, 1995.

Using SAS to Evaluate the Operating Characteristics of Selected Multivariate Analysis of
Variance Procedures, by Debra Olson Sowell (Oral Roberts University) and
William T. Coombs (Oklahoma State University), presented at the 1995 South
Central Regional SAS Conference, November 7, 1995.

PERSONAL

Married to Russell W. Sowell, Jr., (Computer Science Faculty Member, Tulsa Community College)
One married daughter and two granddaughters
Worship at First United Methodist Church of Broken Arrow OK