

# Sheila O'Leary Weaver

## CONTACT INFORMATION

### Home Address

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## EMPLOYMENT HISTORY

8/89 - present

Lecturer, Mathematics and Statistics, University of Vermont. Primary responsibility is teaching undergraduate statistics courses (STAT051, 111, 141, 151, 201, 224), and Finite Mathematics (Math17), as well as other courses I developed: Introduction to Data Science (Stat095), Mathematics and Social Justice (Math 95); Statistics and Social Justice (Stat051); Probability and Inference, Risk and Decision (HCOL186); and Mathematics and the Arts (HCOL186).

1/08 – present

Program Director of the Governor's Institute in Mathematical Sciences. The job includes planning and running the 5-day residential Institute, fund-raising for the Institute, evaluation of the Institute, attending meetings and retreats with other Program Directors at the different Institutes, serving on the Governor's Institute Board, the Vermont State Math Coalition, and the Vermont Space Grant Consortium Board).

8/89 – present

Statistical Consultant on a variety of studies, primarily in the areas of biomedical research and market research. Recently, data generation for an app providing Crime Statistics in Higher Ed.

9/09 – 9/12

On faculty for the Vermont Math Initiative (VMI), a Master's program for elementary to high school level mathematics teachers.

6/08 – 9/09

Mentor for Math/Biology program for undergraduates involved in summer research at UVM.

5/05 – 8/07

Helped develop and teach courses in Statistics and Mathematics for middle-level and high school level mathematics teachers, with the Vermont Mathematics Partnerships (VMP) Program of the Vermont Institutes.

8/85 - 8/89

Biostatistician/Lecturer, University of Vermont.

Position involved statistical consulting, data management, analysis and interpretation, and writing of research papers for biomedical studies; supervising graduate research assistants; teaching undergraduate statistics courses (STAT11, 51, 111, 141).

6/84 - 8/85

Assistant Statistician, Department of Agronomy, University of Illinois.

Designed and implemented computer programs for data analysis and presentation for the Illinois Corn and Soybean Variety Testing Program; managed the department's computer work site; assisted in the teaching of applied statistics courses; provided additional consulting for faculty and graduate students in statistical analysis and computing.

8/82 - 5/84

Research Assistant Positions at the University of Illinois in:

Department of Psychology. Worked with Dr. Stanley Wasserman in applications of loglinear modelling to sociometric binary relation analysis.

Department of Family and Consumer Economics, and Department of Foods and Nutrition. Worked with Dr. Kristin Kline and Dr. Carol Ries in analyses of the 1977-78 USDA national Food Consumption Survey.

Department of Zoology. Worked with Dr Carol S. Carter-Porges on animal behavior research. Provided statistical consulting, data analysis and data management.

Department of Mathematics. Worked with Dr. Saul Blumenthal on ranking and selection research.

Department of Educational Psychology. Assisted Dr. Michael Levine in Item Response Theory.

8/82 - 5/84

Teaching Assistant, Department of Mathematics, University of Illinois. Taught with full responsibility courses in Linear Algebra, Trigonometry, Calculus and Analytic Geometry I and II, and Statistics.

## **EDUCATION**

MS in Statistics, University of Illinois, Champaign-Urbana, May 1984, GPA = 4.8/5.0

BS in Teaching of Mathematics/ Minor in Computer Science, University of Illinois, Champaign-Urbana, May 1982, GPA = 5.0/5.0

## **HONORS AND PROFESSIONAL SOCIETIES**

College of Engineering and Mathematics Service Award, 2013

Kroepsch-Maurice Award for Teaching Excellence, 2002

Service Learning Fellow, 2001

Graduated with Distinction from the Department of Mathematics, B.S.

Bronze Tablet Graduate (Summa Cum Laud), B.S.

On "List of Teachers Ranked as Excellent by Their Students" three out of four semesters of graduate school.

Member of the American Statistical Association

## **RECENT PUBLICATIONS, PRESENTATIONS**

Presentation on Statistics: St. Michael's College Colloquium, Nov. 14, 2014. *Social Justice and Decision Making with Bayes' Rule*

Tyler M. Aten, Miranda M. Redmond, Sheila O. Weaver, Collin C. Love, Aliya S. Lapp, Karen L. Hinkle, and Bryan A. Ballif, 2013. Tyrosine Phosphorylation of the orphan receptor ESDN/DCBLD2 serves as a scaffold for the signaling adaptor CrkL. FEBS Letters, Volume 587, Issue 15, 2 August 2013, Pages 2313-2318.

Presentations on Mathematics and the Arts: Middlebury College Colloquium, April 2011; St. Michael's in January, 2012; Math Day Talk at UVM in May, 2012.

P Bremser, C. Kimber, R. Root, S. Weaver. 2010. Mathematics of, for and as Social Justice, a chapter in the text: Beyond Diversity: The Socially Just Academy, Editor Dr. Kathleen Skubikowski, Stylus Publishing, LLC, 2010.

Presented with panel on Social Justice in the Classroom, at the Blackboard Jungle III, at the University of Vermont, March 27, 2010.

Taught short course in incorporating Mathematics of Social Justice ideas in the college classroom at the MAA Southeastern section meeting, March 29, 2008.

Presentation at the Second Development Workshop on the Mathematics of Social Justice at Middlebury College, June 20, 2007.

Poster session on Math and Social Justice at the United States Conference on Teaching Statistics (USCOTS), in Columbus, Ohio, May 18, 2007.

Alberts, K. Scott, E. Nordmoe, J. Legler, S. Weaver. 2006. Community-based Learning in Undergraduate Courses. *Journal of Statistical Education*. Panel Presentation, Manuscript submitted March, 2006.

Presentation on Music in the Statistics classroom at the United States Conference on Teaching Statistics (USCOTS), in Columbus, Ohio, May 17, 2005.

## **INTERESTS**

Music: play and teach Clarinet and Violin.

Athletics: Running, Swimming, Cycling, Nordic Skiing.

Studio Art: Painting and Drawing.

