

January 27, 2020

## CURRICULUM VITA

### CLIFFORD SPIEGELMAN

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#### EDUCATION:

1970	B.A., Economics, Math, Statistics, SUNY/ Buffalo.
1973	M.S., Managerial Economics, Northwestern University.
1976	Ph.D., Statistics/Applied Mathematics, Northwestern University.

#### ACADEMIC APPOINTMENTS:

1976 - 1977	Assistant Professor of Statistics, Florida State University.
1978 - 1987	Statistical Engineering Division, National Bureau of Standards, Gaithersburg, MD.
1982 - 1983	Visiting Faculty Member, Department of Mathematics, Northwestern University.
1986	Visiting Faculty Member, Department of Math Sciences, Johns Hopkins University.
1987 – 1990	Associate Professor, Department of Statistics, Texas A&M University.
1990 - 2009	Professor, Department of Statistics, Texas A&M University.
1993 - 1996	Adjunct Professor of Chemistry, Lamar University.
2004 -	Senior Research Scientist, TTI.
2005 - 2008	Adjunct Investigator, Biostatistics Branch, Division of Cancer Epidemiology and Genetics National Cancer Institute.
2005-2009	NCI Proteomics Program Consultant.
2009-	Distinguished Professor of Statistics, Texas A&M University.
2017-	Official Statistician of the Texas Holocaust and Genocide Commission
2017-	Statistics Advisor to the Texas Forensic Science Commission

#### MAJOR RESEARCH INTERESTS:

Receptor modeling, calibration curves, nonparametric curve fitting, high dimensional methods, applications of statistics particularly to forensics, chemistry, proteomics, the environment, transportation, and agriculture.

**RESEARCH FUNDING:**

(PI) NSF, “Renewal of Development of Calibration Curve Methods and an Investigation of their Properties”, August 1991, \$45,000.00.
(PI) NSF, “Mathematical Sciences: Renewal of Development of Calibration Curve Methods and an Investigation of their Properties”, August 1992 – July 1995, \$45,000.00.
(PI) TNRCC, “Texas National Resources Conservation Commission”, October 1, 1993 – August 15, 1994, \$90,000.00.
(PI) DOC-NIST, “Support for the Conference on Environmental Chemometrics and Chemometrics”, September 27, 1994 – September 13, 1995, \$4,000.00.
(PI) Texas A&M Research Foundation, “Further Source Profile Development Using Multivariate Techniques, Transfer of the Technology to the TNRCC”, January 27, 1995 – August 31, 1996, \$120,000.00.
(PI) NSF, “Establishing Chemometric and Statistical Foundations of Receptor Models”, May 1, 1996 – April 30, 2000, \$140,000.00.
(PI) NSF, “Robust Receptor Modeling”, 1997 -2001, \$80,000.00.
(PI) Amarillo National Resource Center for Plutonium, “Improving Spectroscopy Calibration and Limit of Detection”, January 16, 1998 – January 15, 1999, \$119,796.00.
(PI) Bureau of Transportation Statistics, “System-Level Quality Control for the Date Collections and Archiving”, May 17, 2001 – December 31, 2002, \$95,000.00.
(Co-PI) Texas Department of Transportation, “Asphalt Quality Assurance”, September 1, 2001 – August 31, 2002, \$115,656.00.
(Co-PI) Texas Department of Transportation, “Stat Services for Materials and Pavements”, January 7, 2002 – August 31, 2002, \$225,000.00.
(PI) Texas Department of Transportation, “Statistical Support”, January 27, 2003 – August 31, 2003, \$45,000.00.
(PI) Texas Commission on Environmental Quality, “TCEQ Notice to Proceed work order 582-03-58881-05”, July 1, 2004 – August 31, 2004, \$19,517.00.
(PI) Texas Commission on Environmental Quality, “Estimation of Nox Emissions from Compressor Engines”, June 10, 2005 – August 31,2005, \$140,000.00.
(PI) State of Texas, “Writing a Statistics Text for Transportation Students”, September 1, 2005 – August 31,

2006, \$45,000.00.
(PI) Capital Consulting Corporation, “CCC-NCI-Clinical Proteomic Technical INI”, September 1, 2005 – November 30, 2006, \$244,346.00.
(PI) NCI, “NCI-IPA-Spiegelman”, January 1, 2006 – December 31, 2009, \$119,421.54.
(PI) SAIC-Frederick, Inc., “SAIC-Frederick-NCI-Proteomic Technology”, April 3, 2006 – December 31, 2008, \$1,806,780.68.
(PI) Southwest Region University Transportation Center, January 1 – August 31, 2008, for textbook, \$62,437.00.
(PI) TAMU-Weizmann Grant <i>A non-parametric Markov approach to classification and regression</i> September 2012- September 2014, \$88,000.
(PI) Distance Learning Grant July 2013-July 2014. \$36,053 (SWUTC)
1997 – 2013, Texas Transportation Institute guarantees five months support each calendar year.
May 2014-May 2017 National Agricultural Statistical Services (USDA/NASS) 3.5 months support/year + a graduate student (1.5 years) ~\$527,000.
May 2017-May 2018 National Agricultural Statistical Services (USDA/NASS) 3.5 months support/year, ~\$160,000
May 2018-May 2019 National Agricultural Statistical Services (USDA/NASS) 3.5 months support/year, ~\$160,000
May 2019-May 2020 National Agricultural Statistical Services (USDA/NASS) 3.5 months support/year, \$155,058
May 2019 Texas Forensic Science Commission Contract to create an online forensic stat course \$30,000

**PROFESSIONAL ACTIVITIES:**

*Selected National Committees:*

1987	International Chemometric Society Representative to the ASA.
1987 - 1991	Head ASA Committee on Statistics in Chemistry.
1987 - 1991	Executive board ASA Section on Physical and Engineering Sciences.
1987 - 1991	Head of Conference on Mathematics in Chemistry.
1990 - 1991	President, South East Texas Chapter of the American Statistical Association.
1991 - 1992	Past President, South East Texas Chapter of the American Statistical Association.
1994	Member, Federal Advisory Committee ACT Committee to EPA.
1994 – 1996	Member ASA Committee on International standards, Head of Committee, 1996.

2002-2003	Head and Co-organizer of Transportation Interest Group with the ASA Editorial.
2003	NRC committee for the FBI Bullet Lead Analysis.
2008-2014	Board of Trustees, National Institute of Statistical Sciences
2002-2012	Member, Committee on Statistical Methodology and Statistical Computer Software in Transportation Research, Transportation Research Board, Division of NRC.
2014-2016	Chair 2015-2016 SAMSI program on forensic science (the NSF/DMS Statistics and Applied Mathematical Sciences Institute)
2016-2018	OSAC sub-committee appointment for gun-shot residue (GSR).
2017	NRC Review Committee for the National Material Measurement Laboratory at NIST
2017	GAO Advisory Committee for NIST's Standard Reference Materials program
2017-2018	OSAC member Technical Issues Group, NIST forensic subcommittee

***Selected Department of Statistics Committees:***

1987 -	Director of the Laboratory for Statistical Science in Chemistry
1987 - 1988	Library Committee
1988 - 1990	Colloquium Chair
2004 -	TAMU Representative to NISS, (National Institute of Statistical Sciences)
2012-2013	Promotion and Tenure Committee
2006-2018	Departmental outside funding committee (chair)
2016-	College of Science Promotion and Tenure Committee
2018	College of Science Distinguished Professor Committee

***Selected Editorial:***

1985	Guest Editor of the <i>NBS Journal of Research</i> , November-December 1985 issue containing the Chemometrics Research Conference Proceedings.
1986 - 2016	Editor of <i>Chemometrics and Intelligent Laboratory Systems</i> .
2016-	Editor emeritus <i>Chemometrics and Intelligent Laboratory Systems</i> .
1986 - 1999	Editorial Board <i>The Journal of Chemometrics</i> .
1988 - 1994	Associate Editor of <i>Journal of the American Statistical Association</i> .
1988	Acting Editor of <i>Journal of the American Statistical Association</i> , Theory and Methods Section, July.
1988	Invited Contributing Scholar for <i>Chemtracts-Analytical and Physical Chemistry</i> .

2002 -2005	Associate Editor for <i>Journal of Environmetrics</i> .
2001 - 2006	Editorial Board of the <i>Journal of Transportation and Statistics</i> .
2006 -2008	Member, Editorial Advisory Board for the <i>Journal of Proteome Research</i> .

### HONORS AND AWARDS:

1990	<i>Fellow, Institute of Mathematical Statistics</i> . This award recognizes candidates who have demonstrated distinction in research in statistics probability, by publication of independent work of merit.
1991	<i>W. J. Youden Award given by the American Statistical Association for the best paper on Interlaboratory Comparisons</i> . Selection Criteria: Interlaboratory tests constitute a broad field of statistical activity in commercial, regulatory, and industrial practice. They are used in many disciplines for comparing results produced in different laboratories, for determining consensus values, and for assessing and developing test methods. Such studies are often interactive, with the goal to reduce discrepancies among results obtained in the participating laboratories.
1992	<i>Fellow, American Statistical Association</i> . This award recognizes full members of established reputation who have made outstanding contributions in some aspect of statistical work. This award is of great honor as it is limited to no more than 1/3 of 1% of the ASA membership
1993	<i>Ordinary Member, International Statistical Institute</i> . This membership is elected by virtue of his distinguished contributions to the development or application of statistical methods, or to the administration of statistical services, or the development and improvement of statistical education.
1994	<i>Distinguished Achievement Award, ASA Section on the Environment</i> . Received award in recognition of the outstanding contributions to the development of methods, issues, concepts, and applications of environmental statistics.
2002 & 2008	<i>Statistics in Chemistry Award for Best Paper</i> . Criteria to receive this award includes: the innovative use of statistics to solve a problem in chemistry, and the impact of the solution on the problem. Only work published in refereed statistics, chemistry or chemometrics journals are considered.
2005	ASA Invited <i>Chance</i> Lecturer.
2007	<i>Jerome Sacks Award for Cross-Disciplinary Research</i> . This award is given to an individual whose work is cross-disciplinary and encompasses innovation in the statistical sciences. Preference will be given to work that creates new research relationships or substantially buttresses extant relationships.
2007	Honor- Interviewed by NBC Nightly News, CNN Situation Room, Geraldo at Large, The Washington Post, and may other national radio and newspapers about the JFK paper. It was a worldwide story and the lead story on Fox News for 2 days
2008	<i>The 2008 JSM Statistics in Chemistry Award</i> . This award is for or the innovative use of statistics to solve a problem in chemistry and the impact of the solution on the problem.

	"Chemical and forensic analysis of JFK assassination bullet lots: Is a second shooter possible?" <i>The Annals of Applied Statistics</i> , (2007), Vol. 1, No. 2, 287-301.
2008	<i>The 2008 RFK Memorial Journalism Award for domestic television.</i> This award was given to 60 Minutes for the segment, "Evidence of Injustice" where I was a contributor of background information regarding CBLA misuse.
2009	Paper on Stradivarius violins with Nagyvary covered by international print media including Time Magazine and the Christian Science Monitor
2012-2013	Invited to write a series of editorials for the Austin American Statesman on the state of forensic science in this country. Three were written and featured on the first page of the editorial section and 2 were above the fold.
2013	Honor University wide lecture on the forensic aspects of the JFK assassination 50-year anniversary lecture. All of the networks ABC, NBC, and CBS covered the talk. The work was also cited extensively in word wide media
2013-	Member technical advisory group (TAG, and a statutory position.) Houston Forensic Science Local Government Corporation (Houston Crime Lab)
2014	Fellow of the American Association for the Advancement of Science (AAAS)
2014-2016	Chair 2015-2016 SAMSI program on forensic science (the NSF/DMS Statistics and Applied Mathematical Sciences Institute)
2016-	Editor emeritus <i>Chemometrics and Intelligent Laboratory Systems</i> .
2016	ASA Don Owen Award
2017	Virtual Issue of <i>Chemometrics and Intelligent Laboratory System</i> in my honor <a href="https://www.journals.elsevier.com/chemometrics-and-intelligent-laboratory-systems/virtual-special-issues/virtual-special-issue-in-honor-of-prof-clifford-spiegelman">https://www.journals.elsevier.com/chemometrics-and-intelligent-laboratory-systems/virtual-special-issues/virtual-special-issue-in-honor-of-prof-clifford-spiegelman</a>
2017-	Appointed as Official Statistician of the Texas Holocaust and Genocide Commission
2017-	Appointed as statistical advisor to the Texas Forensic Science Commission
2017	SPOT Award USDA/NASS for methodology development for the 2017 Census of Agriculture.
2019	Outstanding Communicator Award from Texas A&M Chapter of Sigma Xi
2019	Named Regents Professor

### **SUPERVISORY DUTIES:**

1978 - 1986	Supervised three Statistical Engineering Division Research Contracts.
1978 - 1987	Supervised junior level statisticians on consulting projects.
1980 - 1985	Head of the National Bureau of Standards, Center for Applied Mathematics, Expository Seminar Series.
2000-2003	Chair and cofounder Transportation Statistics Interest Group ASA

1998-2012	Organized and help manage statistical help desk at TTI
2014-2016	Chair SAMSI 2015-2016 forensic program

**CONFERENCES ORGANIZED:**

1985	A Principal co-organizer of Chemometrics Research Conference, Gaithersburg, MD.
1989	A Principal co-organizer of Mathematics in Chemistry Conference, College Station, TX.
1995	A Principal co-organizer of Third International Conference on Environmetrics and Chemometrics Conference, Las Vegas, NV.
2000	A Principal co-organizer of the Fourth International Conference on Environmetrics and Chemometrics, Las Vegas, NV.
2008	A Principal co-organizer of the AAAS Data Exploration Workshop, Washington, DC.
2015	Organizer conference om chemometrics in analytical chemistry, Changsha, China
2015	Tutorial workshop SAMSI 2015-2016 program on forensic science
2015	Opening workshop SAMSI 2015-2016 program on forensic science

**PH. D. STUDENTS (Chaired):**

1991	Chyon-Hwa Yeh (Chair)
1997	Eun Sug Park (Chair)
2000	Byron Gajewski (Chair)
2001	Jacqueline Kiffe (Co-Chair)
2002	Naijun Sha (Co-Chair)
2017	Mary Frances Dorn (Chair)

**Course Taught**

Stat 211 Principles of Statistics I  
 Stat 406 Design and Analysis of Experiments  
 Stat 408 Introduction to Linear Models  
 stat 618 (Current number for the course is 616) Multivariate Analysis  
 Stat 623 (Statistical Methods for Chemistry, created the course)  
 stat 636 Methods in Multivariate Analysis  
 Stat 642 The Methods of Statistics II  
 Stat 651 Statistics in Research I (Taught over 60 times)  
 Stat 658 (Transportation Statistics , created the course)  
 Stat 689 Special Topics (Chemometrics, Transportation Statistics, Environmetrics)

**PUBLICATIONS:**

*Refereed Publications*

1979	<b>Spiegelman, C.H.</b> (1979). On Estimating The Slope Of A Straight Line When Both Variables Are Subject To Error. <i>Annals of Statistics</i> , 7, 201-206.
1980	<b>Spiegelman, C.H.</b> & Studden, W.J. (1980). Design Aspects Of Scheffe's Calibration Theory Using Linear Splines. <i>Journal of Research of the National Bureau of Standards</i> , 85(4), 295-304.
1980	<b>Spiegelman, C.H.</b> (1980). A Univariate Extension of Jensen's Inequality. <i>Journal of Research of the National Bureau of Standards</i> , 85, 363-365.
1980	<b>Spiegelman, C.H.</b> & Sacks, J. (1980). Consistent Window Estimation of a Regression Function. <i>Annals of Statistics</i> , 8, 240-246.
1981	Rosenblatt, J.R. & <b>Spiegelman, C.H.</b> (1981) Discussion of: A Bayesian Analysis of the Linear Calibration Problem, by W.G. Hunter and W.F. Lamboy. <i>Technometrics</i> , 23, 329-333.
1982	<b>Spiegelman, C.H.</b> (1982). A Note on the Behavior of Least Squares Regression Estimates When Both Variables Have Error. <i>Journal of Research of the National Bureau of Standards</i> , 87, 67-70.
1982	<b>Spiegelman, C.H.</b> (1982). A Univariate Inequality for Medians. <i>Journal of Research of the National Bureau of Standards</i> , 87, 71-74.
1982	Lechner, J.A., Reeve, C.P., & <b>Spiegelman, C.H.</b> (1982). An Implementation Of The Scheffe Approach To Calibration Using Spline Functions, Illustrated By A Pressure-Volume Calibration. <i>Technometrics</i> , 24, 229-234.
1982	Billick, I.H., Shier, D.R. & <b>Spiegelman, C.H.</b> (1982). Sensitivity Of Trends In Geometric Mean Blood Lead Levels To Random Measurement Errors. <i>Science of the Total Environment</i> , 24(3), 233-248.
1983	Kafadar, K., Rice, J. & <b>Spiegelman, C.H.</b> (1983). One-Sided Trimming In Small Samples With Asymmetric Contamination. <i>Communications in Statistics</i> , 12, 477-496.
1984	Carroll, R.J., <b>Spiegelman, C.H.</b> , Lan, K.K., Bailey, K.T., & Abbott, R.D. (1984). On Errors-In-Variables For Binary Regression Models. <i>Biometrika</i> , 71, 19-25.
1984	<b>Spiegelman, C.H.</b> (1984). An Iterative Calibration Curve Procedure. <i>Journal of Research of the National Bureau of Standards</i> , 89, 187-192.
1984	Knafl, G. Sacks, J, <b>Spiegelman, C.H.</b> , & Ylvisaker, D. (1984). Nonparametric Calibration. <i>Technometrics</i> , 26(3), 233-241.
1984	Simiu, E., Hendrickson, E.M., Nolan, W.A. Olkin, I., & <b>Spiegelman, C.H.</b> (1984). Multidirectional Analysis Of Extreme Wind Speed Data. In A.P. Boresi & K.P. Chong (Eds.), <i>Engineering Mechanics in Civil Engineering</i> , American Society of Civil Engineers, 1196-1199. New York.
1984	<b>Spiegelman, C.H.</b> (1984). A New Statistics For Detecting Influential Observations In A Scheff's Type Calibration Curve. <i>The Australian Journal of Statistics</i> , 26, 290-297.
1985	<b>Spiegelman, C.H.</b> (1985). Jensen's Inequality For General Location Parameter. <i>The American Statistician</i> , 39(1), 54.
1985	Marshak, H. & <b>Spiegelman, C.H.</b> (1985). Determining Multipole Mixing Ratios From Nuclear Orientation Experiments. <i>Nuclear Instruments and Methods In Physics Research</i> , A234, 455-467.
1985	Simiu, E. Henrickson, E.M., Nolan, W.A., Olkin, I., & <b>Spiegelman, C.H.</b> (1985). Multivariate



	Distributions Of Directional Wind Speeds. <i>Journal of Structural Engineering</i> , 111(4), 939-943.
1986	<b>Spiegelman, C.H.</b> (1986). Two Pitfalls Of Data Drive Modeling When Both X And Y Have Measurement Error. <i>The American Statistician</i> , 40, 245-248.
1986	Lwin, T. & <b>Spiegelman, C.H.</b> (1986). Calibration With Working Standards. <i>Journal of the Royal Statistical Society, Series C: Applied Statistics</i> , 35, 256-261.
1986	Kafadar, K. & <b>Spiegelman, C.H.</b> (1986). An Alternative To Ordinary Q-Q Plots: Conditional Q-Q Plots. <i>Computational Statistics and Data Analysis</i> , 4, 167-184.
1986	Carroll, R.J. & <b>Spiegelman, C.H.</b> (1986). The Effect Of Ignoring Small Measurement Errors In Precision Instrument Calibration. <i>Journal of Quality Technology</i> , 18(3) 170-173.
1987	Olkin, I. & <b>Spiegelman, C.H.</b> (1987). A Semiparametric Approach To Density Estimation. <i>Journal of the American Statistical Association, Theory and Methods</i> , 82, 858-865.
1987	Watters, R. L., Jr., Carroll, R.J., & <b>Spiegelman, C.H.</b> (1987). Error Modeling And Confidence Interval Estimation For ICP Calibration Curves. <i>Analytical Chemistry</i> , 59, 1639-1643.
1988	Carroll, R.J., <b>Spiegelman, C.H.</b> , & Sacks, J. (1988). A Quick And Easy Calibration Curve Procedure. <i>Technometrics</i> , 30 (2), 137-141.
1988	Boggs, P.T., <b>Spiegelman, C.H.</b> , Donaldson, J. R., & Schnabel, R.B. (1988). A Computational Examination Of Orthogonal Distance Regression. <i>Journal of Econometrics</i> , 38, 169-201.
1988	Watters, R.L., Jr., Carroll, R.J., & <b>Spiegelman, C.H.</b> (1988). Heteroscedastic Calibration Using Analyzed Reference Materials as Calibration Standards. <i>Journal of the National Bureau of Standards</i> 93(3), 264-265.
1989	Eberhardt, K.R., Reeve, C.P. & <b>Spiegelman, C.H.</b> (1989). A Minimax Approach To Combining Means With Practical Examples. <i>Chemometrics and Intelligent Laboratory Systems</i> , 5, 129-148. (Won the Youden Award).
1989	Eberhardt, K.R., Reeve, C.P. & <b>Spiegelman, C.H.</b> (1989). A Minimax Approach To Combining Means With Practical Examples: Response To Comments. <i>Chemometrics and Intelligent Laboratory Systems</i> , 5(2), 153-154.
1989	Knafl, G., Sacks, K. & <b>Spiegelman, C.H.</b> (1989). Calibrating For Differences. In L.J Gleser, M.D. Perlman, S.J. Press, & A.R. Sampson (Eds.), <i>Essays in Honor of Ingram Olkin</i> (224-348).
1990	Eubank, R.L. & <b>Spiegelman, C.H.</b> (1990). Testing The Goodness-Of-Fit Of A Linear Model Via Nonparametric Regression Techniques. <i>Journal of the American Statistical Association</i> , 85, No. 410, 387-392.
1990	<b>Spiegelman, C.H.</b> (1990). Plotting Techniques For Errors-In-Variables Problems. <i>Contemporary Mathematics</i> , 112, 167-168.
1991	Brown, P.J., <b>Spiegelman, C.H.</b> , & Denham, M.C. (1991). Chemometrics And Spectral Frequency Selection. <i>Phil. Trans. Royal Society London, Series A, Math and Physical Science</i> , 337, 311-322.
1991	<b>Spiegelman, C.H.</b> , Watters, R.L., & Hungwu, L. (1991). A Statistical Method For Calibrating Flame Emission Spectrometry Which Takes Account Of Errors In The Calibration Standards. <i>Chemometrics and Intelligent Laboratory Systems</i> , 11(2), 121-130.
1991	Brown, J.P. & <b>Spiegelman, C.H.</b> (1991). Mean Squared Error And Selection In Multivariate

	Calibration. <i>Statistics and Probability Letters</i> , 12, 157-159.
1991	Cline, D.B. & <b>Spiegelman, C.H.</b> (1991). Bias Correcting Confidence Intervals For A Nearly Common Property. <i>Chemometrics and Intelligent Laboratory Systems</i> , 11(2), 131-136.
1992	Carroll, R.J. & <b>Spiegelman, C.H.</b> (1992). Diagnostics For Nonlinearity And Heteroscedasticity In Errors-In-Variables Regression. <i>Technometrics</i> , 34 (2), 186-196.
1992	<b>Spiegelman, C.H.</b> (1992). Plotting Aids For Multivariate Calibration And Chemostatistics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 15 (1), 29-38.
1992	Prince, E. & <b>Spiegelman, C.H.</b> (1992). Statistical Significance Test. In A.J.C. Wilson & E. Prince (Eds.), <i>International Tables for Crystallography</i> (pp. 618-621). Netherlands: Kluwer.
1992	Prince, E. & <b>Spiegelman, C.H.</b> (1992). Detection and Treatment of Systematic Error. In A.J.C. Wilson & E. Prince (Eds.), <i>International Tables for Crystallography</i> (pp. 622-623). Netherlands: Kluwer.
1993	<b>Spiegelman, C.H.</b> & Dattner, S. (1993). Applying And Developing Receptor Models To The 1990 El Paso Air Data: A Look At Receptor Modeling With Uncharacterized Sources And Graphical Diagnostics. <i>Analytica Chimica Acta</i> , 277, 347-356.
1993	<b>Spiegelman, C.H.</b> & Dattner, S. (1993). Multivariate Chemometrics A Case Study: Applying And Developing Receptor Models For The 1990 El Paso Winter PM10 Receptor Modeling Scoping Study. In G. P. Patil and C. R. Rao (Eds.), <i>Multivariate Environmental Statistics</i> (509-524). New York: Elsevier/North Holland.
1994	<b>Spiegelman, C.H.</b> & Wang, C.Y. (1994). Detecting Interactions Using Low Dimensional Searches In High Dimensional Data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 23(2), 293-299.
1994	Johnson, R.L., Lattimer, G.W., Jr., & <b>Spiegelman, C.H.</b> (1994). Use Of Trimmed Duplicates Derived From Laboratory Data To Estimate Standard Deviation. <i>Journal of the AOAC International</i> , 77(6), 1660-1663.
1994	Yeh, C.H. & <b>Spiegelman, C.H.</b> (1994). Partial Least Squares and Classification and Regression Trees. <i>Chemometrics and Intelligent Laboratory Systems</i> 22(1), 17-23.
1996	<b>Spiegelman, C.H.</b> , Wang, S., & Denham, M. (1996). Asymptotic Minimax Calibration Estimates. <i>Chemometrics and Intelligent Laboratory Systems</i> , 32(2), 257-263.
1997	Henry, R.C., <b>Spiegelman, C.H.</b> , Collins, J.F., & Park, E. (1997). Reported Emissions of Organic Gases Are Not Consistent With Observations. <i>Proceedings of the National Academy of Sciences (PNAS)</i> , 94 (13), 6596-6599.
1997	<b>Spiegelman, C.H.</b> (1997). A Discussion Of Issues Raised By Lloyd Currie And A Cross Disciplinary View Of Detection Limits And Estimating Parameters That Are Often At Or Near Zero. <i>Chemometrics and Intelligent Laboratory Systems</i> , 37(1), 182-188.
1997	<b>Spiegelman, C.H.</b> (1997). Discussion Of 'Formation Of Hcl-6H <sub>2</sub> O From Ice And Hcl Under Ultrahigh Vacuum By James D. Graham And Jeffery T. Roberts. <i>Chemometrics and Intelligent Laboratory Systems</i> , 37, 149.
1997	<b>Spiegelman, C.H.</b> & Tarlow, P. (1997). A Mock Trial For Critical Values. <i>Stats</i> , 20, 13-16.
1997	McShane, M.J., Coté, G.L., & <b>Spiegelman, C.H.</b> (1997). Variable Selection In Multivariate Calibration Of A Spectroscopic Glucose Sensor. <i>Applied Spectroscopy</i> , 51 (10), 1559-1654.

1997	McShane, M.J., Coté, G.L., & <b>Spiegelman, C.H.</b> (1997). Variable Selection for Quantitative Determination of Glucose Concentration with Near Infrared Spectroscopy, Presented at SPIE International Biomedical Optics Conference, San Jose, CA.: SPIE V2982; pp 189-197: Feb. 8-14, 1997.
1998	<b>Spiegelman, C.H.</b> , McShane, M.J., Goetz, M.J., Motamedi, M., Yue, Q.L., & Coté, G.L.. (1998). Theoretical Justification of Wavelength Selection in PLS Calibration: Development of a New Algorithm. <i>Analytical Chemistry</i> 70, 35-44.
1998	Speed, F.M. & <b>Spiegelman, C.H.</b> (1998). Evaluating Black Boxes: An Ad-Hoc Method For Assessing Nonparametric And Nonlinear Curve-Fitting Estimators. <i>Communications in Statistics – Simulation and Computation</i> , 27 (3), 699-710.
1998	McShane, M.J., Coté, G.L., & <b>Spiegelman, C.H.</b> (1998). Assessment Of Partial Least-Squares Calibration And Wavelength Selection For Complex Near-Infrared Spectra. <i>Applied Spectroscopy</i> , 52(6), 878-884.
1998	Schechtman, E. & <b>Spiegelman, C.H.</b> (1998). Interval Estimate For The <i>X</i> -Intercept Of A Straight Line: A Nonlinear Approach. <i>Communications in Statistics—Simulation and Computation</i> , 27(4), 1093-1115.
1999	McShane, M.J., Cameron, B.D., Coté, G.L., Motamedi, M. & <b>Spiegelman, C.H.</b> (1999). A Novel Peak-Hopping Stepwise Feature Selection Method With Application To Raman Spectroscopy. <i>Analytical Chemica Acta</i> . 388(3), 251-264..
1999	Henry, R.C., Park, E.S., & <b>Spiegelman, C.H.</b> (1999). Comparing A New Algorithm With The Classic Methods For Estimating The Number Of Factors. <i>Chemometrics and Intelligent Laboratory Systems</i> , 48(1), 91-97.
1999	McShane, M.J., Cameron, B.D., Coté, G.L., & <b>Spiegelman C.H.</b> (1999). Improving Complex Near-IR Calibrations Using A New Wavelength Selection Algorithm. <i>Applied Spectroscopy</i> , 53(12), 1575-1581.
1999	Prince, E. & <b>Spiegelman, C.H.</b> (1999). Statistical Significance Test. In A.J.C. Wilson & E. Prince (Eds.) (Vol. C), <i>International Tables for Crystallography</i> (2nd ed.), (pp. 696-700). Netherlands: Kluwer.
1999	Prince, E. & <b>Spiegelman, C.H.</b> (1999). Detection and Treatment of Systematic Error. In A.J.C. Wilson & E. Prince (Eds.) (Vol. C), <i>International Tables for Crystallography</i> (2nd ed.), (pp. 701-703). Netherlands: Kluwer.
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2020	<u>To Appear Association Does Not Imply Discrimination: Flawed Analyses that Lead to Misdiagnoses and Wrongful Convictions; Maria Cuellar, Lucas Mentch, and <b>Cliff Spiegelman</b>, Handbook of Forensic Sciences, CRC, Banks, Kafadar, Kaye editors.</u>

**Select Not Refereed Publications**

**Columns:**

2010	<b>Spiegelman, C.</b> , Weak Forensic Science Has High Cost” and “Probability Statements Should Be Introduced into Scientific Testimony, AMSTATNEWS March Issue
2011	<b>Spiegelman, C.</b> , Schwartz, A., and Philpott, K., Putting the Science in Forensic Science, AMSTATNEWS, August Issue
2012	<b>Spiegelman, C.</b> , and Tobin W. A., Forensic evidence lacks science, Dec. 30 Austin American Statesman, cover of insight and book review section.
2013	<b>Tobin W. A. and Spiegelman, C.</b> Gun evidence often wide of scientific mark, March 3 Austin American Statesman, cover of insight and book review section.
2013	<b>Tobin W. A. and Spiegelman, C.</b> Crime labs stained by junk ‘science’, Oct 13, cover of insight and book review section’



2016	Lucas Mentch, Maria Cuellar, William C. Thompson and <b>Clifford Spiegelman</b> , 'Four experts explain why forensic analysis of crime scenes is not as reliable as you might think_In a popular TV show', academics Lucas Mentch, Maria Cuellar, William C. Thompson and Clifford Spiegelman see grave shortfalls with crime-solving science, <i>Pittsburg Post-Gazette</i> March 13
2016	Who should control Houston's crime lab? By William C. Thompson and <b>Cliff Spiegelman</b> (and Maria Cuellar and Lucas Mentch-not listed because Chronicle allows only 2 authors.) "Who should control Houston's crime lab?"; <i>Houston Chronicle</i> May 31
2017	<b>Spiegelman, C. H.</b> ; JFK Assassination: Modern Forensic Science Could Finally Solve Shooting Mysteries, <i>Newsweek</i> . <a href="http://www.newsweek.com/jfk-assassination-modern-forensic-science-could-finally-solve-shooting-741292">http://www.newsweek.com/jfk-assassination-modern-forensic-science-could-finally-solve-shooting-741292</a>

### *Select Books*

1990	Massart, D.L., Brereton, R.G., Dessy, R.E., Hopke, P.K., <b>Spiegelman, C.H.</b> , & Wegscheider, W. (Eds.). (1990). <i>Chemometric Tutorials</i> . Elsevier, Amsterdam.
1992	Brereton, R.G., Scott, D.R., Massart, D.L., Dessy, R.E., Hopke, P.K., <b>Spiegelman, C.H.</b> , & Wegscheider, W. (Eds.). (1992). <i>Chemometric Tutorials II</i> . Elsevier, Amsterdam.
2002&2012	Advisory Board (functioned as chemometrics section editor until articles printed alphabetically) <i>Encyclopedia of Environmetrics</i> (first and second editions), Wiley SBN: 9780470057339
2008	Tauler, R., Paatero, P., Henry, R.C., Spiegelman, C., Park, E.S., Poirot, R.L., Viana, M., Querol, X., and Hopke, P.K. (2008). Identification, Resolution and Apportionment of Contamination Sources, <i>Environmental Modeling, Software and Decision Support</i> . 269-284. (Book chapter)
2011	<i>Transportation Statistics and Microsimulation</i> , by <b>Spiegelman C.</b> , Park E.S., and Rilett L., CRC

### *Conference Proceedings' Papers*

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### *Editorials*

1986	<b>Spiegelman, C.H.</b> (1986), Editorial. <i>Chemometrics and Intelligent Laboratory Systems</i> 1(1), 3.
1988	<b>Spiegelman, C.H.</b> (1988). Collaborative Work. <i>Chemometrics and Intelligent Laboratory Systems</i> , 4, 265.

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2007	<b>Spiegelman, C.H.</b> Editorial. <i>Chemometrics and Intelligent Laboratory Systems</i> (85) 2, 157-158.
2010	<b>Spiegelman, C.H.</b> , Letter to Editor: Senior statisticians need to be involved, Accreditation and Quality Assurance (15) 8, 485-486.
2015	➤ Celebrating 30years of publishing chemometrics for chemometricians and others, by Hopke, Philip K; Spiegelman, Clifford;
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### Reviews

1989	<b>Spiegelman, C.H.</b> (1987). Systat. <i>Chemometrics and Intelligent Laboratory Systems</i> , 6(2), 89.
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1991	Hardin, J.W. & <b>Spiegelman, C.H.</b> (1991). Mathematica. <i>Chemometrics and Intelligent Laboratory Systems</i> , 11(2), 199-200.
1991	<b>Spiegelman, C.H.</b> (1991). JMP®, JMP IN®, and JMP Serve™. <i>Chemometrics and Intelligent Laboratory Systems</i> , 11(3), 255.
1992	<b>Spiegelman, C.H.</b> (1992). SYSTAT 5.0 and MINITAB release 8. <i>Chemometrics and Intelligent Laboratory Systems</i> , 12(3), 299-300.
1992	<b>Spiegelman, C.H.</b> (1992). BBN/Catalyst Version 1.4. <i>Chemometrics and Intelligent Laboratory Systems</i> , 14(1-3), 429-430.
1993	<b>Spiegelman, C.H.</b> (1993). MATLAB and the MATLAB Optimization Toolbok (MacIntosh Version). <i>Chemometrics and Intelligent Laboratory Systems</i> , 19(1), 128.
1994	<b>Spiegelman, C. H.</b> (1994). Review of MacIntosh Computer Products: Editor's Choices.

	<i>Chemometrics and Intelligent Laboratory Systems</i> , 22(2), 279-282.
1995	<b>Spiegelman, C.H.</b> (1995). Soft Windows, Mathematica and Data Desk for the Macintosh PC. <i>Chemometrics and Intelligent Laboratory Systems</i> , 28 (1), 208-209.

**SELECTED INVITED PRESENTATIONS: 2015-2017**

Plenary lecture at the CAC meeting in Changsha, China June 2015

Invited Lecture to Sigma XI, November 2015

Design of a Micro-Simulation for Mobility: A Case Study from Nebraska by Clifford Spiegelman and Laurence Rilett and Bhaven Naik: Texas A&M University and University of Nebraska - Lincoln and Ohio University JSM 2015

Short Course on the science behind firearms/toolmarks for Cardozo Law School (Done at the Innocence Project's request) and will be given again to the Capital Defense Lawyers Annual meeting in San Diego in February 2016. (All for free of course)

Opening workshop for SAMSI forensic program. Lecture on firearm/toolmarks

Tutorial workshop for SAMSI forensic program. Lecture on firearm/toolmarks

The Houston Forensic Science Center is hosting a one-day symposium, *When the Gavel Falls...*, on Thursday, September 17<sup>th</sup> at University of St. Thomas University. Talk on firearm/toolmarks  
August 2017 Presentation to the Texas Forensic Science Commission about the Norma Clark trial

December 2017 TCDLA: 15th Annual Forensics Seminar (Houston Texas)

***Presentations at Universities***

Ben-Gurion University of the Negev  
Brigham Young University  
Case Western Reserve University  
Central Queensland University-Rockhampton  
Clarkson University  
Colorado State University  
George Washington University  
Harvard University/Dana Farber  
Hebrew University-Jerusalem  
Johns Hopkins University  
McMaster University, Toronto, Canada  
North Carolina State University  
Northwestern University  
Princeton University  
Purdue University  
Queens College – London  
Rice University

Southern Methodist University  
Stanford University  
State University of New York at Albany  
Texas Tech University, Lubbock, TX  
University of California – Berkley  
University of California – Los Angeles  
University of California—San Diego  
University of Central Florida  
University of Colorado at Denver  
University of Illinois – Champagne  
University of Kent at Canterbury  
University of Liverpool  
University of Maryland  
University of Missouri  
University of North Carolina  
University of South Carolina  
University of Southern California  
University of Texas  
University of Washington  
University of Waterloo  
University of Wisconsin – Madison  
Weizmann Institute of Science