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Current Position:

Professor – College of Business, Stony Brook University, Stony Brook, NY
Associate Dean for Academic Integrity– College of Business

Education:

Ph.D., SUNY at Stony Brook, 1979, Applied Mathematics and Statistics.
M.S., SUNY at Stony Brook, 1974, Applied Mathematics and Statistics.
M.A., Hofstra University, 1972, Mathematics.
B.S., St. John's University, 1969, Double Major – Mathematics and Physics.

Awards:

- 2012 Advisory Board Company's 2012 Excellence in Innovation Award for work in optimizing the operating room block scheduling process at Stony Brook University Hospital. This award included a \$5000 donation from the Advisory Board Company to the Stony Brook's Children's Hospital, which was matched by the Simons Foundation.
- 2010 Honorable Mention for Best Poster, 3rd Annual Mayo Clinic Conference on Systems Engineering & Operations Research in Health Care, August 18-20, 2010, Rochester, MN.
- 2008 Franz Edelman Laureate. Recognized by the Institute for Operations Research and the Management Sciences (INFORMS) for “significant contribution to work that each year is selected as representative of the best applications of analytical decision making in the world.”
- 2007 “Best Paper Award” in the Teaching and Curriculum Section at the 2007 American Accounting Association Northeast Region Meeting, Hartford, Connecticut, April 26 – 28, 2007.
- 2006 McGraw-Hill/Irwin “Best Research Paper Award” at the Academy of Business Disciplines 2006 Annual Meeting, Fort Myers Beach, Florida, November 9 – 11, 2006.
- 2004 “Best in Session Award” at the 2004 College Teaching and Learning Conference, Lake Buena Vista, FL, January 5 – 9, 2004.
- 2004 Who’s Who Among America’s Teachers. Nominated by Rohit Gautam, a former Harriman School graduate student.

- 2001 Hugh Cleland Memorial Outstanding Professor Award. Awarded each year by the Alumni Association of Stony Brook University to a professor who has made significant contributions to the lives and careers of Stony Brook alumni.
- 1992–93 Finalist and Honorable Mention, 1993 Franz Edelman Award for Management Science Achievement. This annual international competition recognizes outstanding achievement in the field of management science. Awarded by The Institute of Management Sciences (TIMS) College on the Practice of Management Science. The videotape of this presentation is one of the top 20 best-selling videotapes in the INFORMS Edelman Library. (This paper was a semifinalist in the 1992 Competition.)
- 2004 Harriman School Distinguished Teaching Award. Awarded each year to a Harriman School faculty member by vote of the graduating class.
- 2003 Harriman School Distinguished Teaching Award.
- 2000 Harriman School Distinguished Teaching Award.
- 1990 Harriman School Distinguished Teaching Award.
- 1989 Harriman School Distinguished Teaching Award.
- 1988 “Paperweight” Award. For exceptional service to undergraduate education.
- 1988 Harriman School Distinguished Teaching Award.
- 1984 Harriman College Distinguished Teaching Award.
- 1981 Harriman College Distinguished Teaching Award.
- 1979 Harriman College Distinguished Teaching Award.
- 1979 Transportation Science Dissertation Prize of the Operations Research Society of America. Awarded each year to the outstanding doctoral dissertation in the field of transportation science, by the Transportation Science Section.

Dissertation:

The Single Vehicle Many-to-Many Routing and Scheduling Problem, Stony Brook University, 1979. Advisor: Lawrence Bodin.

Publications:

1. “A Novel Approach to Evaluating Cardiac Surgery Providers: An Alternative to the RAMR” (with C. Pitocco), *International Journal of Health Planning and Management*, accepted July 2021.
2. “Performance Targets for School Districts” (with M. Higuera, C. Comunale, and K. Stickle), *Educational Research Quarterly*, Vol. 44, No. 3, March 2021.
3. “Using Data Analytics to Improve Hospital Performance” (with C. Pitocco and K. Stickle), *Journal of Healthcare Management*, Vol. 65, No. 4, July-August 2020.
4. “Role of Digital Fluency and Spatial Ability in Student Experience of Online Learning Environments: Digital Readiness for Evolution of Educational Ecosystem” (with T. Tchoubar and L. Scarlatos), book chapter in *Intelligent Computing*, Springer, J. Kacprzyk, ed., *Advances in Intelligent Systems and Computing*, Vol. 857, 2018.
5. “Measuring Hospital Performance Using Mortality Rates: An Alternative to the RAMR” (with C. Pitocco), *International Journal of Health Policy and Management*, April 2018, 7(4), 308-316, 10.15171/ijhpm.2017.94
6. “Performance Benchmarking of School Districts in New York State” (with C. Comunale, S. Higuera, and K. Stickle), book chapter in *Data Envelopment Analysis: A Handbook of*

- Empirical Studies and Applications, Springer, J. Zhu, ed., International Series in Operations Research & Management Science, Vol. 238, 23 March 2018.
7. "Corporate Integrity Agreement Awareness Survey" (with L. Y. Bullard and F. J. Rodino), *Current Medical Research and Opinion*, Volume 31, Supplement 1, April 2015.
 8. "Measuring the Efficiency of States to Convert Government and Private Expenditures into Jobs" (with C. Comunale and S. Gara), *International Journal of Business and Social Science*, Volume 5, Number 6, May 2014.
 9. "Using DEA to Improve the Efficiency of Pupil Transportation" (with A. Jones, A. Forsyth, and H. Lewis), book chapter in Managing Service Productivity, Springer, A. Emrouznejad and E. Cabanda, eds., International Series in Operations Research & Management Science, Vol. 215, 2014.
 10. "Measuring and Managing the Productivity of U.S. Commuter Rail Systems" (with H. Lewis and S. Mallikarjun), book chapter in Managing Service Productivity, Springer, A. Emrouznejad and E. Cabanda, eds., International Series in Operations Research & Management Science, Vol. 215, 2014.
 11. "Operational Performance of U.S. Public Rail Transit and Implications for Public Policy" (with H. Lewis and S. Mallikarjun), *Socio-Economic Planning Sciences*, DOI information: 10.1016/j.seps.2013.08.001, available online at <http://authors.elsevier.com/sd/article/S0038012113000487>.
 12. "Examining the Effect of a Patient Navigation Intervention on Outpatient Cardiac Rehabilitation Awareness and Enrollment" (with L. Benz Scott, D. Brown, S. Gravely, and S. Brzostek), *Journal of Cardiopulmonary Rehabilitation and Prevention*, 2013 Sep-Oct; 33(5): 281–291. doi: 10.1097/HCR.0b013e3182972dd6
 13. "Unoriented Two-Stage DEA: The Case of the Oscillating Intermediate Products" (with H. Lewis and S. Mallikarjun), *European Journal of Operational Research*, (2013), available online at <http://dx.doi.org/10.1016/j.ejor.2013.02.058>.
 14. "Effect of Patient Navigation on Enrollment in Cardiac Rehabilitation" (with L. Benz Scott, D. Brown, S. Gravely, and S. Brzostek), *JAMA Internal Medicine*, Volume 173, Number 3, 2013, 244-246. Epub ahead of print, December 17, 2012, doi: 10.1001/2013.jamainternmed.1042, print publication January 28, 2013.
 15. "Efficiency-Based Funding for Public Four-Year Colleges and Universities" (with C. Comunale and S. Gara), *Education Finance and Policy*, Volume 7, No. 3, Summer 2012.
 16. "Measuring Efficiency in the Presence of Head-to-Head Competition" (with H. Lewis), *Journal of Productivity Analysis*, Volume 38, Issue 2, 2012, 183-197, DOI: 10.1007/s11123-011-0243-1.
 17. "FuzzEA: A Fuzzy Logic Approach to Efficiency Analysis" (with H. Lewis), *INFOR*, Volume 49, Issue 3, 2011, 182-192.
 18. "The Auditor's Assessment of Fraud Risk: A Fuzzy Logic Approach" (with C. Comunale and R. Rosner), *Journal of Forensic and Investigative Accounting*, Vol. 3, Issue 1, January-June 2011.
 19. "An Efficiency-Based Multicriteria Strategic Planning Model for Ambulatory Surgery Centers" (with H. Lewis and M. Dolan), *Journal of Medical Systems*, Volume 35, Number 5, January 2012, 1029-1037. DOI: 10.1007/s10916-010-9522-z. This paper won Honorable Mention in the poster session competition at the 3rd Annual Mayo Clinic Conference on Systems Engineering & Operations Research in Health Care, August 18-20, 2010, Rochester, MN.

20. "An Efficiency Analysis of U.S. Business Schools" (with C. Comunale), *Journal of Case Studies in Accreditation and Assessment*, July 2009. Available online at: <http://www.aabri.com/manuscripts/09256.pdf>.
21. "Organizational Capability, Efficiency, and Effectiveness in Major League Baseball: 1901-2002," (with H. Lewis and K. Lock), *European Journal of Operational Research*, 2009, Vol. 197, 731-740. DOI: 10.1016/j.ejor.2008.07.002. Available online at: <http://dx.doi.org/10.1016/j.ejor.2008.07.002>.
22. "Using Data Envelopment Analysis to Generalize the DuPont Model," (with C. Comunale and M. Palermo), *Journal of Business Disciplines*, 2008, Vol. IX, Nr.1, 73-112. This paper appears in the Proceedings of the Academy of Business Disciplines 2006 Annual Meeting, Fort Myers, Florida, November 9 – 11, 2006. *This paper received the 2006 McGraw/Hill-Irwin "Best Research Paper Award."*
23. "Current Factors and Practices Related to Instructional Approach in the Introductory Financial Accounting Course" (with C. Comunale and S. Gara), *Advances in Accounting Education*, 2008, Vol. 9, 221-232.
24. "The Importance of Basic Science and Clinical Research as a Selection Criterion for General Surgery Residency Programs" (with M. M. Melendez, X. Xu, M. J. Shapiro, and E. P. Mohan), *Current Surgery*, March-April, 2008, Vol. 65, No. 2, 151-4.
25. "Accounting for Site Characteristics in DEA: Leveling the Playing Field," (with R. Norton and R. Silkman), *International Transactions in Operational Research*, Volume 14, May 2007, 231-44.
26. "On the Tour Partitioning Heuristic for the Unit Demand Capacitated Vehicle Routing Problem," (with H. Lewis), *Operations Research Letters*, Volume 35, 2007, 374-78.
27. "Player Salaries, Organizational Efficiency, and Competitiveness in Major League Baseball," (with H. Lewis and K. Lock), *Journal of Sports Economics*, Vol. 8, No. 3, June 2007, 266-94.
28. "Assessing Materiality: A 'Fuzzy Logic' Approach" (with C. L. Comunale and R. Rosner), *CPA Journal*, June 2006, 26-8.
29. "Professional Ethical Crises: A Case Study of Accounting Majors," (with C. L. Comunale and S. C. Gara), *Managerial Auditing Journal*, Issue 6, 2006.
30. "A Fuzzy Logic Approach to Assessing Materiality," (with C. L. Comunale), *Journal of Emerging Technologies in Accounting*, Volume 2, 2005, 1-15.
31. "Alleviating Blood Shortages in a Resource-Constrained Environment" (with C. Pitocco), *Transfusion*, Vol. 45, July 2005, 1118-26.
32. "Mandatory Auditor Rotation and Retention: Impact on Market Share" (with C. L. Comunale), *Managerial Auditing Journal*, Vol. 20, No. 3, 2005, 235-248. This article was republished in *ICFAI Journal of Audit Practice*, Volume III, No. 2, April 2006.
33. "Linguistic Delivery Style, Client Credibility, and Auditor Judgment," (with C. L. Comunale), *Advances in Accounting Behavioral Research*, Vol. 8, 2005.
34. "Innovative Design for Courses with Group Projects" (with H. Lewis), *INFORMS Transactions on Education*, Vol. 5, No. 3, May 2005.
35. "Data Envelopment Analysis with Reverse Inputs and Outputs," (with H. Lewis), *Journal of Productivity Analysis*, Vol. 21, 2004, 113-132.
36. "Network DEA: Efficiency Analysis of Organizations with Complex Internal Structure," (with H. Lewis), *Computers and Operations Research*, Vol. 31, 2004, 1365-1410.

37. "Credibility in the Internal Audit Function," (with C. L. Comunale), *Internal Auditing*, Vol. 19, No. 1, January-February 2004.
38. "The Cost of Competitiveness in Major League Baseball," (with H. Lewis and K. Lock), *The Cooperstown Symposium on Baseball and American Culture Anthology, 2003-2004*, W. M. Simons and A. L. Hall (eds.), 2003, 242-255.
39. "Current Accounting Investigations: Effect on Big 5 Market Shares," (with C. L. Comunale), *Managerial Auditing Journal*, Vol. 18, No. 6/7, 2003.
40. "The Auditors' Client Inquiry Process," (with C. L. Comunale and S. C. Gara), *Managerial Auditing Journal*, Vol. 18, No. 2, 2003, 128-133.
41. "Two-Stage DEA: An Application to Major League Baseball," (with H. Lewis), *Journal of Productivity Analysis*, Vol. 19, Nos. 2 & 3, April 2003, 227-249.
42. "Firm-Specific Productive Efficiency Offsets in the Development of a Price Cap Formula," (with R. N. Norton and R. H. Silkman), *The Electricity Journal*, Vol. 15, No. 10, December 2002.
43. "The Effectiveness of Course Web Sites: An Exploratory Study," (with C. L. Comunale and D. J. Pedagno-Voss), *Journal of Educational Technology Systems*, Vol. 30, No. 2, 2001-2002, 171-190.
44. "Cardiac Risk Factors in the Non-Cardiac Surgical Patient: A Retrospective Study," (with R. I. Katz, S. S. Dayan, D. Hersch, and L. Keehn), *American Journal of Anesthesiology*, Vol. 28, September 2001, 331-338.
45. "Validation of the Fall Risk Assessment Tool Utilized by the University Hospital at Stony Brook as a Measure of In-hospital Fall Risk," (with A. Cruz, R. Ignacio, S. Fields, and J. Posillico), abstract published in the *Journal of the American Geriatrics Society*.
46. "Laboratory Statistics," chapter in *Saunders Manual of Clinical Laboratory Science*, Craig Lehmann (ed.), W.B. Saunders Company, 1997.
47. "Sensitivity Analysis in Data Envelopment Analysis for the Case of Different Coefficients of Proportionality," (with L. Neralic), *Proceedings of the International Conference on Parametric Optimization and Related Topics IV*, Enschede (NL), June 6-9, 1995.
48. "Ketorolac versus Fentanyl for Postoperative Pain Management in Outpatients," (with R. S. Twersky, A. Lebovits, and C. Williams), *The Clinical Journal of Pain*, Vol. 11, No. 2, 1995, 127-133.
49. "Ketorolac versus Meperidine for Treatment of Pain in Emergency Department Patients" (with K. L. Koenig, L. Hodgson, R. Kozak, K. Jordan, and A. M. Leiken), *Academic Emergency Medicine*, November-December 1994.
50. "Immunohistochemical Detection of Sex Steroid Receptors in Routine Paraffin Sections in Breast Cancer: Comparison with Frozen Sections and Enzyme Immunoassay" (with J. M. Elias, M. Margiotta, and A. Heimann), *Journal of Cellular Biochemistry*, Supplement 19, 1994, 126-133.
51. "The Effect of Craniovertebral Fusion on Occlusion" (with H. W. Makofsky), *Journal of Craniomandibular Practice*, Vol. 12, No. 1, January 1994, 38-45.
52. "Improving Pupil Transportation in North Carolina" (with S. Sleeper and R. Taggart), *Interfaces*, Vol. 24, No. 1, January February 1994, 87-103. This paper won Honorable Mention in the 1993 Franz Edelman International Prize Competition.
53. "The Effect of Head Posture on Muscle Contact Position Utilizing the T-Scan System of Occlusal Analysis" (with H. W. Makofsky, D. Z. Diamond, and M. T. Sexton), *Journal of Craniomandibular Practice*, Vol. 9, No. 4, October 1991, 316-21.

54. "Long-Term Projections of the AIDS Epidemic" (with J. Feinstein), *Interfaces*, Vol. 21, No. 3, May-June 1991, 64-79.
55. "Evaluating Managerial Efficiency of Veterans Administration Medical Centers Using Data Envelopment Analysis" (with A. M. Leiken, A. H. Nolan, S. Liss, A. J. Hogan, and R. H. Silkman), *Medical Care*, Vol. 27, No. 12, 1989, 1175-88. Harriman School Working Paper HAR-86-003.
56. "The Impact of Prospective Reimbursement on Nursing Home Efficiency" (with A. M. Leiken, S. Sleeper and A. F. Coburn), *Medical Care*, Vol. 27, No. 2, 1989, 154-63. Harriman School Working Paper HAR-88-009.
57. "On the Wisdom of Universal Drug Testing" (with U. Zilz), *Journal of Policy Analysis and Management*, Vol. 7, No. 3, 1988, 542-47.
58. "Modeling the Effects of Price Competition on the Utilization of Health Manpower" (with A. M. Leiken and R. H. Silkman), *Journal of Socio-Economic Planning Sciences*, Vol. 21, No. 1, 1987, 19-24.
59. "The Methodology of Data Envelopment Analysis," in R. H. Silkman (ed.) *Measuring Efficiency: An Assessment of Data Envelopment Analysis*, New Directions for Program Evaluation, No. 32, San Francisco: Jossey-Bass, 1986, 7-29.
60. "Data Envelopment Analysis: Critique and Extensions" (with R. H. Silkman and A. Hogan), in R. H. Silkman (ed.) *Measuring Efficiency: An Assessment of Data Envelopment Analysis*, New Directions for Program Evaluation, No. 32, San Francisco: Jossey-Bass, 1986, 73-105.
61. "The Multi-Vehicle Subscriber Dial-A-Ride Problem" (with L. Bodin), in A. Swersey and E. Ignall (eds.) *Delivery of Urban Services*, TIMS Studies in the Management Sciences, Vol. 22, 1986, 73-86.
62. "Pick-up and Delivery of Partial Loads with 'Soft' Time Windows" (with Y. M. Choi), *American Journal of Mathematical and Management Sciences*, Vol. 6, Nos. 3 and 4, 1986, 369-98. (This volume also issued as *Vehicle Routing with Time Window Constraints: Algorithmic Solutions*, B. L. Golden and A. A. Assad (eds.) American Series in Mathematical and Management Sciences, Vol. 15, American Sciences Press, Columbus, Ohio, 1986.)
63. "A Model to Assess the Quality-Cost Tradeoff in Nursing Homes" (with A. M. Leiken and R. H. Silkman), *Health Services Research*, Vol. 21, No. 2, June 1986 (Part I), 145-60.
64. "Optimizing Single Vehicle Many-to-Many Operations with Desired Delivery Times: I. Scheduling" (with L. Bodin), *Transportation Science*, Vol. 19, No. 4, November 1985, 378-410.
65. "Optimizing Single Vehicle Many-to-Many Operations with Desired Delivery Times: II. Routing" (with L. Bodin), *Transportation Science*, Vol. 19, No. 4, November 1985, 411-35.
66. "A Case Study of Student Recruiting: Linear Programming as Problem Solver and Heuristic" (with J. B. Weinstein), *Journal of Policy Analysis and Management*, Vol. 4, No. 4, Summer 1985, 597-603.
67. "Queues for Gasoline: Reality, Perception and Public Policy," *Urban Analysis and Public Management*, Vol. 8, No. 2, June 1985, 147-73. (Summary review appeared in Rockefeller Institute Report Series, Number 1, Spring 1984.)
68. "Game Tree Analysis of International Crises" (with D. R. Young), *Journal of Policy and Management*, Vol. 4, No. 3, Spring 1985, 354-69.
69. "Improving the Cost Effectiveness of Team Care" (with A. M. Leiken and R. H. Silkman), *Proceedings of the Sixth Annual Conference on Interdisciplinary Health Team Care*, Hartford, Connecticut, September 1984, 277-86.

70. "Paratransit Energy Efficiency: Less than Meets the Eye," *Specialized Transportation Planning and Practice*, Vol. 1, No. 4, 1983, Lead Article, 291-307.
71. "Energy: Taking the Wheel" (with T. O. Carroll), *New York Affairs*, Vol. 5, No. 2, (1978).
72. "Energy Impacts on Passenger Transportation" (with E. Beltrami, T. O. Carroll, and D. R. Young), *Transportation and Energy*, Proceedings Urban Transportation Division Specialty Conference, American Society of Civil Engineers, May 1978, 254-76.

Papers Submitted for Publication

1. "An Opaque Selling Scheme to Reduce Shortage and Wastage in Perishable Inventory Systems" (with K. Sasanuma and A. Hibiki), submitted to *Operations Research Perspectives*, September 2021.
2. "A Marginal Analysis Framework to Incorporate the Externality Effect of Ordering Perishables" (with K. Sasanuma, M. Delasay, C. Pitocco, and A. Sheller-Wolf), submitted to *Operations Research Perspectives*, September 2021.
3. "Improving Nursing Home Quality Using Data Envelopment Analysis" (with C. Pitocco), under review at *American Journal of Medical Quality*, June 2021.
4. "An Exploratory Study of the Role of Competitiveness in Auditor Whistleblowing" (with C. Comunale, S. Gara, and I. Ghobashy), *Behavioral Research in Accounting*, January 2021.

Papers in Process

1. "Understanding Motivators behind Whistleblowing in Auditing Firms: A Focus on Auditor Competitiveness and Power Distance" (with C. Comunale, S. Gara and P. Capariello).
2. "Nutrient Profiling Using Data Envelopment Analysis" (with C. Pitocco and A. C. Noto), *European Journal of Operational Research* (target journal).
3. "Optimal Allocation of Operating Room Time Among Surgical Services: From Tactical to Strategic Planning" (with K. Rosenfeld, H. Lewis, M. Dolan, and K. Stickle).
4. "Measuring the Global Inefficiency of Greenhouse Gas Emissions Using Data Envelopment Analysis" (with M. Sexton).
5. "Saving Water in California: Using DEA to Allocate Usage Reductions" (with H. Lewis and D. Hagedorn).

Doctoral Dissertations Supervised

1. *The Fleet Coordination Problem*, Herbert F. Lewis, Department of Applied Mathematics and Statistics, 1996.
2. *The Single Vehicle Trailer Routing and Scheduling Problem with Partial Loads, Time Windows, and Dwell Times*, Young-Myung Choi, Department of Applied Mathematics and Statistics, 1984.

Working Papers:

1. "Using Physician Incentives to Improve Hospital Performance" (with H. Lewis, M. Dolan, and T. Griffin), August 2017.
2. "A Mathematical Model of the *Ebolavirus* in Guinea" (with A. C. Noto), January 2017.
3. "Measuring the Efficiency of Suffolk County School Districts" (with D. Hagedorn and H. Lewis), October 2016.

4. "Optimal and Heuristic Models for School Bus Fleet Size Problem" (with J. Zhang, H. Lewis, and S. Mallikarjun).
5. "Gender Differences in Awareness of and Enrollment in Outpatient Cardiac Rehabilitation" (with L. Benz Scott, D. Brown, S. Gravely, and S. Brzostek), June 2013.
6. "The Fleet Coordination Problem," (with H. Lewis), June 2009.
7. "Hyperbolic DEA: A Balanced Orientation Model," June 2007.
8. "The Auditor's Use of Fuzzy Logic to Assess the Risk of Fraudulent Financial Reporting: A Case Study," (with R. Rosner and C. Comunale), June 2007.
9. "Cost Analysis of Contrast Induced Nephropathy," August 2005.
10. "The Debate on Auditors' Independence: Views from Both Sides," (with C. L. Comunale), October 2000. This paper appeared in L.I.U./C.W. Post Campus *College of Management Newsletter*, Winter 2001-02.
11. "Managerial Efficiency over Time," (with H. Lewis), April 2000.
12. "Scandals, Students, and the Future of the Accounting Profession" (with C. L. Comunale and R. Rosner).
13. "Adjusting Inputs for Site Characteristics in Data Envelopment Analysis," (with R. Silkman), March 2000.
14. "The Multi-Criteria Knapsack Problem with Multiple Choice Constraints: A Model for Rotisserie League Baseball," (with H. Lewis), July 1999.
15. "The Balanced Set Partitioning Problem," (with H. Lewis), October 1996.
16. "The Site-Balanced k-Traveling Salesman Problem," (with H. Lewis), December 1995.
17. "Admission Concurrent DRG Assignment Project" (with L. L. Manzella and R. B. Rigoroso), July 1992.
18. "A Rating System for Cardiac Surgery Mortality Performance" (with A. M. Leiken), June 1991.
19. "Efficiency-Based Funding: The Application of DEA to Nonhomogeneous Units" (with S. Sleeper and R. Taggart), April 1991.
20. "Targeting and Reducing Excessive Hospital Stays" (with A. M. Leiken, A. H. Nolan, A. J. Mitchell, Y. Dlugacz, R. J. Rosati, I. Sciacca, and N. Fish), November 1990.
21. "Urban Hospital Overcrowding: We May Not Need More Beds" (with A. M. Leiken and A. H. Nolan), February 1990.
22. "Reducing Length of Stay through Statistical Analysis" (with A. M. Leiken and A. Nolan), March 1989. HAR-89-005.
23. "Modeling and Interpreting Hospital Mortality Rates: Some Caveats" (with A. M. Leiken, A. Nolan, and S. Sleeper), January 1988. HAR-88-008.
24. "A Procedure for Identifying Unexpected Patient Outcomes" (with A. M. Leiken, A. Nolan and S. Sleeper), July 1987. HAR-87-016.
25. "Comparative Labor Market Behavior of Independent Sector and Public Sector Organizations" (with A. M. Leiken, S. Sleeper, and D. R. Young), February 1986. HAR-86-004.
26. "Using ANOVA and Network Flow Models to Determine Nurse Staffing Levels" (with A. M. Leiken and R. H. Silkman), September 1984.
27. "Data Envelopment Analysis: Critique and Extensions" (with R. H. Silkman and A. Hogan), April 1984.

28. "Estimating the Economic Value of Public Beachfront Parks" (with R. H. Silkman and T. O. Carroll). (Summary review appeared in Rockefeller Institute Report Series, Number 1, Spring 1984.)
29. "Calibration of a Discretionary Travel Model: A Decomposition Approach" (with R. H. Silkman). Working Paper W-83-08, May 1983.
30. "Minority Recruitment: An Application of Linear Programming" (with J. B. Weinstein). Working Paper W-83-07, January 1983.
31. "Extensions of the Single Vehicle Many-to-Many Routing and Scheduling Problem" (with L. Bodin and Y. M. Choi), 1982.
32. "The Single Vehicle Many-to-Many Routing and Scheduling Problem with Customer-Dependent Objective Function Coefficients" (with Y. M. Choi), 1981.
33. "The Single Vehicle Many-to-Many Routing and Scheduling Problem with Customer-Dependent Dwell Times" (with L. Bodin), Working Paper W-81-09, 1981.

Professional Presentations:

1. "A DEA-Based Decision Support System for Food Shoppers" (with C. Pitocco and P. Messias) to Northeast Decision Sciences Institute, 50th Annual Conference 2021, Virtual, March 26-27, 2021.
2. "Using Data Analytics to Improve Hospital Quality Performance" (with C. Pitocco and K. Stickle) to 7th Virtual Conference on Nursing Education & Practice, March 22-23, 2021.
3. "An Exploratory Study of the Role of Competitiveness in Auditor Whistleblowing" (with C. Comunale and S. Gara) to American Accounting Association – Southwest Region Meeting, Virtual, March 19, 2021.
4. "Whistleblowing in Audit Firms: Competitiveness and Power Distance" (with C. Comunale and I. Ghobashy) to American Accounting Association 2019 Midwest Region Meeting, Chicago, IL, October 17-19, 2019.
5. "Marginal Analysis of Perishable Inventory Systems using Constant Base Stock Approximation" (with K. Sasanuma, M. Delasay, C. Pitocco, and A. Scheller-Wolf) to INFORMS MSOM (Manufacturing and Service Operations Management) Conference, Dallas, TX, July 1-3, 2018.
6. "Role of Digital Fluency and Spatial Ability in Student Experience of Online Learning Environments" (with T. Tchoubar and L. Scarlatos), to IEEE Technically Sponsored Computing Conference 2018, London, UK, July 10-12, 2018. Appears in Conference Proceedings.
7. "Nutrient Profiling Using Data Envelopment Analysis" (with C. Pitocco) to INFORMS 2017 Annual Meeting, Houston, TX, October 22, 2017.
8. "Measuring Nursing Home Quality Performance Using DEA" (with C. Pitocco) to INFORMS 2017 Annual Meeting, Houston, TX, October 23, 2017.
9. "Evaluating Cardiac Mortality Rates: An Alternative to the RAMR" (with C. Pitocco and A. Joseph) to INFORMS 2017 Annual Meeting, Houston, TX, October 24, 2017.
10. "Analysis of Perishable Inventory with Substitution Under a Base Stock Policy" (with K. Sasanuma, M. Delasay, C. Pitocco, and A. Scheller-Wolf) to INFORMS 2017 Annual Meeting, Houston, TX, October 24, 2017.
11. "Antibiotic Resistance Rates by Geographical Region Among Ocular Pathogens Collected During the ARMOR Surveillance Study" (with C. M. Sanfilippo, P. A. Asbell, H. H.

- DeCory), to Annual Meeting of the American Academy of Optometry 2017, October 11, 2017, Chicago, IL.
12. "Analysis of Antibiotic Resistance Rates by Patient Age from Ocular Pathogens Collected During the ARMOR Surveillance Study" (with L. Ng, C. M. Sanfilippo, P. A. Asbell, and H. H. DeCory) to Annual Meeting of the American Academy of Optometry 2017, October 11-14, Chicago, IL.
 13. "Queueing Analysis of Perishable Inventory Under a Base Stock Policy" (with C. Pitocco, K. Sasanuma and A. Sheller-Wolf) to POMS 2017 Annual Conference, Seattle, WA, May 5, 2017.
 14. "Hospital Performance Evaluations in New York State Using Data Envelopment Analysis" (with K. Stickle and C. Pitocco) to INFORMS 2016 National Meeting, Nashville, TN, November 16, 2016.
 15. "Measuring the Efficiency of Suffolk County School Districts" (with D. Hagedorn and H. Lewis) to INFORMS 2016 National Meeting, Nashville, TN, November 14, 2016.
 16. "Optimal and Heuristic Models for School Bus Fleet Size Problem" (with J. Zhang, H. Lewis, and S. Mallikarjun) to INFORMS 2016 National Meeting, Nashville, TN, November 15, 2016.
 17. "The Risks of Risk Adjusted Mortality Rates, and a Proposed Alternative Measure" (with C. Pitocco) to INFORMS 2016 National Meeting, Nashville, TN, November 13, 2016.
 18. "Performance Benchmarking of Schools in New York State" (with M. Higuera, C. Comunale, L. Sciacca and K. Stickle), to Symposium on "The Paradigm Shift from Output to Outcome Measures in the Public Sector", University of Palermo (Italy), May 25-27, 2016.
 19. "The Risks of Risk Adjusted Mortality Rates, and a Proposed Alternative Measure" (with C. Pitocco) to Symposium on "The Paradigm Shift from Output to Outcome Measures in the Public Sector", University of Palermo (Italy), May 25-27, 2016.
 20. "A Mathematical Model of the *Ebolavirus* in Guinea" (with A. C. Noto), to Program in Public Health 2015-16 Seminar Series (in conjunction with the Center for Population, Environment, and Health and the Program in Social and Health Psychology), Stony Brook University, Stony Brook, NY, January 28, 2016.
 21. "Optimal Block Scheduling for the Operating Room Suite: From Tactical to Strategic Planning" (with K. Rosenfeld, H. Lewis, K. Stickle and M. Dolan), to INFORMS 2015 National Meeting, Philadelphia, PA, November 2, 2015.
 22. "Saving Water in California: Using DEA to Allocate Usage Reductions" (with Herbert Lewis and Diana Hagedorn), to INFORMS 2015 National Meeting, Philadelphia, PA, November 2, 2015.
 23. "Superfood or Not? DEA Makes the Call" (with Christine Pitocco), to INFORMS 2015 National Meeting, Philadelphia, PA, November 2, 2015.
 24. "Superfood or Not? DEA Makes the Call" (with Christine Pitocco), to International Conference on Health Policy Statistics (ICHPS), October 7-9, 2015, Providence, RI.
 25. "Performance Benchmarking of Schools in New York State" (with M. Higuera, C. Comunale, L. Sciacca and K. Stickle), to INFORMS 2014 National Meeting, San Francisco, CA, November 10, 2014.
 26. "Performance Benchmarking of Schools in New York State" (with M. Higuera, C. Comunale, L. Sciacca and K. Stickle), to College of Business Seminar Series, Stony Brook, NY, November 17, 2014.

27. “Measuring the Efficiency of States to Convert Government and Private Expenditures into Jobs” (with C. Comunale and S. Gara), to 2013 American Accounting Association Annual Meeting, Anaheim, CA, August 3 – 7, 2013.
28. “Optimal Block Scheduling for the Operating Room Suite: From Tactical to Strategic Planning” (with K. Rosenfeld, H. Lewis, and M. Dolan), to Converging Science Summit, Stony Brook University, April 15, 2013.
29. “Operational Performance of U.S. Public Rail Transit and Implications for Public Policy” (with S. Mallikarjun and H. Lewis), to INFORMS Annual Meeting, October 14-17, 2012, Phoenix, Arizona.
30. “Measuring the Efficiency of States to Convert Government and Private Expenditures into Economic Growth” (with C. Comunale and S. Gara), to AAA Midwestern Region Meeting, October 11-13, 2012, St. Louis, Missouri.
31. “Patient Navigation Significantly Improves Rates of Enrollment into Outpatient Cardiac Rehabilitation: Results from a Randomized Controlled Trial” (with S. Gravely, L. Benz Scott, S. Brzostek, C. Cizmeli, and D.L. Brown, to the Canadian Association of Cardiac Rehabilitation Annual Symposium at the Canadian Cardiovascular Congress, October 2012, Toronto, ON. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 32(5): 305–313.
32. “Operational Performance of U.S. Public Rail Transit and Implications for Public Policy” (with S. Mallikarjun and H. Lewis), to North American Productivity Workshop VII, Houston, TX, June 6-9, 2012.
33. “Efficiency-Based Funding for Public Four-Year Colleges and Universities” (with C. Comunale and S. Gara), to American Accounting Association Northeast Region Meeting, October 27-29, 2011, White Plains, NY.
34. “Patient Navigators Achieve Significantly Higher Enrollment Rates into Structured Cardiac Rehabilitation Programs” (with L. A. Benz Scott and D. L. Brown), to the Annual Scientific Meeting of the American Academy of Health Behavior, March 20-23, 2011, on Hilton Head Island, South Carolina.
35. “An Efficiency-Based Multicriteria Strategic Planning Model for Ambulatory Surgery Centers” (with H. Lewis and M. Dolan). This paper won Honorable Mention in the poster session competition at the 3rd Annual Mayo Clinic Conference on Systems Engineering & Operations Research in Health Care, August 18-20, 2010, Rochester, MN.
36. “An Efficiency-Based Multicriteria Strategic Planning Model for Ambulatory Surgery Centers” (with H. Lewis and M. Dolan), to North American Productivity Workshop VI, Houston, TX, June 2-5, 2010.
37. “Efficiency-Based Funding for Public Four-Year Colleges and Universities” (with C. Comunale), to American Accounting Association 2010 Mid-Atlantic Regional Meeting, Philadelphia, PA, April 24, 2010.
38. “An Efficiency Analysis of U.S. Business Schools” (with C. Comunale), to 2009 American Accounting Association Annual Meeting, New York, NY, August 1 – 5, 2009.
39. “Measuring Efficiency in the Presence of Head-to-Head Competition” (with H. Lewis), to 7th International Conference on Data Envelopment Analysis, Philadelphia, PA, July 10-12, 2009.
40. “The Efficiency of Political Campaigns: Data Envelopment Analysis in Head-to-Head Competition” (with L. Yang and H. Lewis), to Academy of Business Disciplines 2008 Annual Meeting, Fort Myers, Florida, November 6 – 8, 2008.

41. "A Performance Measurement Model for Business Schools" (with C. Comunale), to Academy of Business Disciplines 2007 Annual Meeting, Fort Myers, FL, November 2 – 4, 2007.
42. "The Auditor's Assessment of Fraud Risk: A Fuzzy Logic Approach" (with C. Comunale and R. Rosner), to 2007 American Accounting Association Meeting, Chicago, Illinois, August 5 – 8, 2007.
43. "User versus Preparer Orientation in the Introductory Financial Accounting Course: Current Practice and Implications" (with C. Comunale and S. Gara), to 2007 American Accounting Association Meeting, Chicago, Illinois, August 5 – 8, 2007.
44. "A Multidisciplinary Team Development of a Program Research with Interactive Nurse Robots to Enhance Elderly Health" (with M. A. Nies, G. Nejat, and Y. Sun), to 18th International Nursing Research Congress Focusing on Evidence-Based Practice, Vienna, Austria, July 11 – 14, 2007.
45. "The Auditor's Assessment of Fraud Risk: A Fuzzy Logic Approach" (with C. Comunale and R. Rosner), to 2007 American Accounting Association Northeast Region Meeting, Hartford, Connecticut, April 26 – 28, 2007.
46. "User versus Preparer Orientation in the Introductory Financial Accounting Course: Current Practice and Implications" (with C. Comunale and S. Gara), to 2007 American Accounting Association Northeast Region Meeting, Hartford, Connecticut, April 26 – 28, 2007. *This paper won the "Best Paper Award" in the Teaching and Curriculum Section.*
47. "Using Data Envelopment Analysis to Generalize the DuPont Model" (with C. Comunale and M. Palermo), College of Business Research Seminar Series, March 28, 2007.
48. "Using Data Envelopment Analysis to Generalize the DuPont Model" (with C. Comunale and M. Palermo), Academy of Business Disciplines 2006 Annual Meeting, Fort Myers, Florida, November 9 – 11, 2006. *This paper received the 2006 McGraw/Hill-Irwin "Best Research Paper Award."*
49. "Using Data Envelopment Analysis to Generalize the DuPont Model," (with C. Comunale and M. Palermo), North American Productivity Workshop, New York, NY, June 28 – 30, 2006.
50. "A New Approach to Assessing Materiality" (with C. Comunale and R. Rosner), accepted for presentation at the 2006 American Accounting Association Midwest Region Meeting, Chicago, Illinois, March 30 – April 1, 2006.
51. "A New Approach to Assessing Materiality" (with C. Comunale and R. Rosner), 2006 American Accounting Association Auditing Section Mid-Year Conference, Los Angeles, California, January 12 – 14, 2006.
52. "Alleviating Blood Shortages in a Resource-Constrained Environment" (with C. Pitocco), to the Society for the Advancement of Blood Management Symposium 2005, Phoenix, Arizona, September 16 – 18, 2005.
53. "Hyperbolic DEA: A Proportional Orientation Model," to IFORS 2005, Honolulu, Hawaii, July 11 – 15, 2005.
54. "Adjusting Data Envelopment Analysis for Variations in Site Characteristics" (with R. Norton and R. Silkman), to IFORS 2005, Honolulu, Hawaii, July 11 – 15, 2005.
55. "Organizational Capability, Efficiency, and Effectiveness in Major League Baseball: 1901-2002," (with H. Lewis and K. Lock), to INFORMS Fall Conference on Organization Science, Dartmouth College, Hanover, NH, November 7, 2004.

56. "Alleviating Blood Shortages in a Resource-Constrained Environment" (with C. Pitocco), to the American Association of Blood Banks, Baltimore, MD, October 23 – 26, 2004.
57. "Professional Ethical Crises: A Case Study of Accounting Majors" (with C. Comunale and S. Gara), to the American Accounting Association 2004 Annual Meeting, Orlando, FL, August 2004.
58. "Organizational Capability, Efficiency, and Effectiveness in Major League Baseball: 1901-2002," (with H. Lewis and K. Lock), to North American Productivity Workshop, Toronto, ON, Canada, June 23 – 25, 2004.
59. "Player Salaries, Organizational Efficiency, and Competitiveness in Major League Baseball," (with H. Lewis and K. Lock), to North American Productivity Workshop, Toronto, ON, Canada, June 23 – 25, 2004.
60. "Innovative Design for Courses with Group Projects" (with H. Lewis), CIT 2004, Stony Brook, NY, June 1 – 4, 2004.
61. "Adjusting Data Envelopment Analysis for Variations in Site Characteristics" (with R. Norton and R. Silkman), CORS/INFORMS Joint International Meeting, Banff, Alberta, Canada, May 16 – 19, 2004.
62. "Professional Ethical Crises: A Case Study of Accounting Majors" (with C. Comunale and S. Gara), 2004 College Teaching and Learning Conference, Lake Buena Vista, FL, January 5 – 9, 2004. *This paper was voted "Best in Session."*
63. "The Cost of Competitiveness in Major League Baseball," (with H. Lewis and K. Lock), to INFORMS Annual Meeting 2003, Atlanta, GA, October 19 – 22, 2003.
64. "Modeling New Products: Customer Satisfaction, Word of Mouth, and Market Share" (with S. Mazvancheryl), INFORMS Annual Meeting 2003, Atlanta, GA, October 19 – 22, 2003.
65. "The Cost of Competitiveness in Major League Baseball," (with H. Lewis and K. Lock), to Fifteenth Annual Cooperstown Symposium on Baseball and American Culture, Cooperstown, NY, June 11 – 13, 2003.
66. "Scandals, Students, and the Future of the Accounting Professions," (with C. Comunale), American Accounting Association Mid-Atlantic Regional Meeting, Philadelphia, PA, April 11 – 12, 2003.
67. "A Fuzzy Logic Approach to Assessing Materiality," (with C. Comunale), American Accounting Association Northeast Regional Meeting, Stamford, CT, April 25 – 26, 2003.
68. "Modeling the New Business Enterprise: Marketing, Customer Satisfaction, and Word of Mouth," Harriman School Faculty Seminar Series, February 12, 2003.
69. "The Effects of Mandatory Auditor Rotation and Retention of the Market Shares of the Big 5 Accounting Firms," (with C. L. Comunale), to the American Accounting Association 2002 Annual Meeting, San Antonio, TX, August 2002.
70. "Network DEA: Efficiency Analysis of Organizations with Complex Internal Structure," (with H. Lewis), to North American Productivity Workshop, Schenectady, NY, June 20 – 22, 2002.
71. "FuzzEA: A Fuzzy Logic Approach to Efficiency Analysis," (with H. Lewis, H. H. Chou, and S. Lin), to North American Productivity Workshop, Schenectady, NY, June 20 – 22, 2002.
72. "Productive Efficiency in the Electric Distribution Industry: An Application of Data Envelopment Analysis," (with R. Norton and R. Silkman), to North American Productivity Workshop, Schenectady, NY, June 20 – 22, 2002.

73. "The Effects of Mandatory Auditor Rotation and Retention of the Market Shares of the Big 5 Accounting Firms," (with C. L. Comunale), to the American Accounting Association 2002 Northeast Regional Meeting, Providence, Rhode Island, April 2002.
74. "Linguistic Delivery Style, Messenger Credibility, and Auditor Judgment," (with C. L. Comunale), to American Accounting Association 2001 Annual Meeting, Atlanta, GA, August 2001.
75. "Validation of the Fall Risk Assessment Tool Utilized by the University Hospital at Stony Brook as a Measure of In-hospital Fall Risk," (with A. Cruz, R. Ignacio, S. Fields, and J. Posillico), to American Geriatrics Society Annual Scientific Meeting 2001, Chicago, IL, May 8 – 13, 2001.
76. "The Effectiveness of Course Web Sites in Higher Education: An Exploratory Study," (with C. L. Comunale and D. J. Pedagno Voss), to College of Management, Long Island University, C.W. Post Campus, April 26, 2001.
77. "A Model of the Auditors' Client Inquiry Process," (with C. L. Comunale), to American Accounting Association Accounting, Behavior, and Organizations Conference Meeting, Chicago, IL, October 6 – 7, 2000.
78. "A Model of the Auditors' Client Inquiry Process," (with C. L. Comunale), to American Accounting Association Annual Meeting, Philadelphia, PA, August 14 – 16, 2000.
79. "Two-Stage DEA: An Application to Major League Baseball," (with H. Lewis), to North American Productivity Workshop, Schenectady, NY, June 15 – 17, 2000.
80. "DEA with Reverse Inputs: An Application to Major League Baseball," (with H. Lewis), to North American Productivity Workshop, Schenectady, NY, June 15 – 17, 2000.
81. "A Model of the Auditors' Client Inquiry Process," (with C. L. Comunale), to Northeast Regional Meeting, American Accounting Association, Boston, MA, April 20 – 22, 2000.
82. "A Model of the Auditors' Client Inquiry Process," (with C. L. Comunale), to Faculty Seminar, C.W. Post University, Brookville, NY, March 24, 2000.
83. "A Model of the Auditors' Client Inquiry Process," (with C. L. Comunale), to Faculty Seminar, SUNY at Stony Brook, Stony Brook, NY, November 1999.
84. "DEA-Based Testimony in an Electric Rate Case Using a New Technique to Adjust Inputs for Site Characteristics," (with R. Silkman) to INFORMS Conference, Cincinnati, Ohio, May 2 – 5, 1999.
85. "The Multi-Criteria Knapsack Problem with Multiple Choice Constraints: A Model for Rotisserie League Baseball," with H. Lewis, to INFORMS Spring 1999 Meeting, Cincinnati, Ohio, May 2 – 5, 1999.
86. "An Evaluation of Persistence with Antihypertensive Therapy in a Managed Care Organization," to The Cost of Noncompliance in the Management of Hypertension, a satellite symposium held in conjunction with the Academy of Managed Care Pharmacy 1997 Educational Conference, Seattle, Washington, October 31, 1997.
87. "Tuberculin Testing and Isoniazid Prophylaxis: A Cost Effectiveness Analysis" (with P. Jain, R. Jain, and Smith L. G.), to 16th Annual Session of the American College of Physicians, Atlanta, Georgia, March 15 – 20, 1995.
88. "Immunohistochemical Detection of Sex Steroid Receptors in Routine Paraffin Sections in Breast Cancer: Comparison with Frozen Sections and Enzyme Immunoassay" (with J. M. Elias, M. Margiotta, and A. Heimann), to Quantitative Pathology in Chemoprevention Trials: Standardization and Quality Control of Surrogate Endpoint Biomarker Assays for Colon, Breast and Prostate, San Diego, California, February 1994.

89. "Experimental Design for Health Services Research," to Health Services Research and Development Program, Veterans Affairs Medical Center, Northport, New York, November 1993.
90. "The Components of Health Services Research" (with A. M. Leiken), to Health Services Research and Development Program, Veterans Affairs Medical Center, Northport, New York, October 1993.
91. "Improving Pupil Transportation in North Carolina" (with R. Taggart and S. Sleeper). Finalist presentation in 22nd Annual Franz Edelman Award for Management Science Achievement, Chicago, Illinois, May 1993.
92. "Ketorolac versus Meperidine for Treatment of Pain in Emergency Department Patients" (with K. L. Koenig, L. Hodgson, R. Kozak, K. Jordan, and A. M. Leiken), to Society for Academic Emergency Medicine Annual Meeting, Toronto, Canada, May 1992.
93. "Efficiency-Based Funding: The Application of DEA to Nonhomogeneous Units" (with S. Sleeper and R. Taggart), to TIMS/ORSA Joint National Meeting, Nashville, Tennessee, May 1991.
94. "Evaluating Managerial Efficiency of Veterans Administration Medical Centers Using DEA" (with A. M. Leiken and A. H. Nolan), to ORSA/TIMS Joint National Meeting, Philadelphia, Pennsylvania, October 1990.
95. "The Use of Centralized Data Bases to Evaluate Hospital Length of Stay Performance" (with A. M. Leiken and A. H. Nolan), to Fourth Annual Meeting of the National Association of Health Data Organizations, Washington, D. C., November 1989.
96. "Long-Term Projections of the AIDS Epidemic" (with J. Feinstein), Harriman School Seminar Series, November 1989.
97. "Hospital Length of Stay and Mortality Analysis," to Residents in Preventive Medicine, SUNY at Stony Brook School of Medicine, September 1989.
98. "Length of Stay Analysis by DRG and by Physician: Financial Implications" (with A. M. Leiken and A. Nolan), to Nassau-Suffolk Hospital Council, West Islip, New York, June 1989.
99. "Use of Centralized Data Bases to Focus Quality Assurance and Utilization Review Activities" (with A. M. Leiken and A. Nolan), to Allied Health Information Development Forum, Lake Tahoe, Nevada, March 1989.
100. "Modeling Hospital Mortality Rates: Methodology and Interpretation" (with A. M. Leiken), to Long Island Quality Assurance Council, Smithtown, New York, January 1989.
101. "Analysis of Mortality Data: Methodology and Critique" (with A. M. Leiken), to Veterans Administration Medical Center, Northport, New York, January 1988.
102. "On the Wisdom of Universal Drug Testing" (with U. Zilz), to Ninth Annual APPAM Research Conference, Bethesda, Maryland, October 1987.
103. "Estimating Hospital Mortality Rates" (with A. M. Leiken), to Empire State Medical, Scientific and Educational Foundation, Inc., New York, New York, October 1987.
104. "Analysis of Mortality Rates and Proposed Follow-on Efforts" (with A. M. Leiken), to Nassau-Suffolk Hospital Council Administrative Board, Hauppauge, July 1987.
105. "Cost Analysis of Cardiac Surgery Patients at Six VA Medical Centers" (with A. M. Leiken), to Veterans Administration, Northport, New York, May 1987.
106. "Comparative Labor Market Behavior of Independent Sector and Public Sector Organizations: The Case of Universities" (with A. M. Leiken, S. Sleeper, and D. R. Young),

- to the Society for the Study of Social Problems Annual Meeting, New York, New York, August 1986.
107. "Modeling the Effects of Price Competition on the Utilization of Health Manpower" (with A. M. Leiken and R. H. Silkman), to Fourth World Congress of Social Economics, Toronto, Canada, August 1986.
 108. "Some New Ideas in Data Envelopment Analysis" (with A. Hogan and R. H. Silkman), to ORSA/TIMS Joint National Meeting, Atlanta, Georgia, November 1985.
 109. "Measuring Efficiency in the VA System Using Data Envelopment Analysis", to staff of the Veterans Administration Medical Center, Northport, New York, November 1985.
 110. "Determining Nurse Staffing Levels Using ANOVA and a Network Flow Model" (with A. M. Leiken and R. H. Silkman), to TIMS/ORSA Joint National Meeting, Boston, Massachusetts, April 1985.
 111. "Vehicle Routing and Scheduling with Partial Loads, Time Windows and Dwell Times" (with Y. M. Choi), to TIMS/ORSA Joint National Meeting, Boston, Massachusetts, April 1985.
 112. "Data Envelopment Analysis: Critique and Extensions" (with R. H. Silkman and A. Hogan), to Evaluation '84, San Francisco, California, October 1984.
 113. "Improving the Quality of Institutional Care: Staff Deployment, Patient Diagnosis and Management" (with A. M. Leiken and R. H. Silkman), to Inaugural Conference of the Oxford Gerontology Center, Binghamton, New York, October 1984.
 114. "Improving the Cost Effectiveness of Team Care" (with A. M. Leiken and R. H. Silkman), to Sixth Annual Conference on Interdisciplinary Health Team Care, Hartford, Connecticut, September 1984.
 115. "Data Envelopment Analysis: Price versus Technical Efficiency" (with R. H. Silkman and A. Hogan), to ORSA/TIMS Joint National Meeting, Orlando, Florida, November 1983.
 116. "The Single Vehicle Trailer Problem with Partial Loads and Time Windows" (with Y. M. Choi), to TIMS/ORSA Joint National Meeting, Chicago, Illinois, April 1983.
 117. "Modeling Recreational Travel on a Microcomputer" (with R. H. Silkman, T. O. Carroll and Y. Chan), to TIMS/ORSA Joint National Meeting, Chicago, Illinois, April 1983.
 118. "A New Algorithm for the Multi-Vehicle Subscriber Dial-A-Ride Problem" (with L. Bodin and J. Greenberg), to ORSA/TIMS Joint National Meeting, San Diego, California, October 1982.
 119. "Extensions of the Single Vehicle Many-to-Many Routing and Scheduling Algorithm" (with Y. M. Choi and L. Bodin), to ORSA/TIMS Joint National Meeting, San Diego, California, October 1982.
 120. "Paratransit Energy Efficiency: Less Than Meets the Eye", to TIMS/ORSA Joint National Meeting, Detroit, Michigan, April 1982.
 121. "The Subscriber Dial-A-Ride Problem: The Baltimore, Maryland Benchmark" (with L. Bodin), to ORSA/TIMS Joint National Meeting, Colorado Springs, Colorado, November 1980.
 122. "Energy and Paratransit Potential on Long Island", to American Planning Association, Hauppauge, New York, March 1980.
 123. "The Many-to-Many Routing and Scheduling Problem", to ORSA/TIMS Joint National Meeting, Los Angeles, California, November 1978.
 124. "Scheduling Mini-Buses for Subscriber Service", to ORSA/TIMS Joint National Meeting, Los Angeles, California, November 1978.

125. “The Multi-Vehicle Subscription Problem: A Heuristic Algorithm”, to TIMS/ORSA Joint National Meeting, New York, New York, May 1978.
126. “The Effects of Energy Constraints on Regional Passenger Transportation”, to TIMS/ORSA Joint National Meeting, New York, New York, May 1978.

Teaching:

- 2003 to present: Professor – College of Business, Stony Brook University, Stony Brook, New York.
Teach graduate and undergraduate courses in statistics and decision sciences.
- 1985 to 2003: Associate Professor – W. Averell Harriman School of Management and Policy, Stony Brook University, Stony Brook, New York.
Teach or have taught graduate level courses in data analysis, modeling, decision support systems, health care management, operations research, probability and statistics, group projects, applied policy analysis, transportation policy analysis, and integer programming (for the Department of Applied Mathematics and Statistics). Dissertation advisor for two Ph.D. students in Applied Mathematics and Statistics.
- 1979 – 1985: Assistant Professor – W. Averell Harriman School of Management and Policy, Stony Brook University, Stony Brook, New York.
Responsibilities as above including faculty advisor for four workshop courses involving group student projects for outside agencies; dissertation advisor for a Ph.D. student in Applied Mathematics and Statistics who graduated August 1984.
- 1974 – 1977: Adjunct Assistant Professor – Hofstra University Department of Marketing, Management and Quantitative Methods, Hempstead, New York.
Taught graduate and undergraduate courses in statistics.
- 1970 – 1972: Adjunct Instructor – Hofstra University Mathematics Department, Hempstead, New York.
Taught undergraduate courses in calculus, probability, and linear programming.

University and Community Service:

- ◆ Director – Center for Performance Measurement. College of Business, Stony Brook University, August 2015 – present.
- ◆ Member – University Senate Committee on Academic Planning and Resource Allocation (CAPRA), August 2017 – present.
- ◆ Member – International Student Success Task Force, Stony Brook University, October 2016 – December 2016.
- ◆ Statistical Advisor – Kings Park High School Honors Science Research Program. Statistical education and consultation to high school students on their science research projects. April 1991 – present.
- ◆ Associate Dean – College of Business, Stony Brook University, Stony Brook, NY, August 2010 – August 2013.
- ◆ Interim Dean – School of Professional Development, Stony Brook University, Stony Brook, NY, September 2013 – August 2014.

- ◆ Co-director – Health Care Management Certificate Program. September 1989 – October 2016.
- ◆ Member – Advisory Committee, Ph.D. Program in Technology, Policy, and Innovation, Subcommittee on the Track in Technology Management, Engineering Entrepreneurship, and Science and Technology Policy, May 2009 – May 2011.
- ◆ Instructor – Summer Math Camp, Stony Brook University, summers of 2013 – 2018.
- ◆ Instructor – CESAME High School Applied Mathematics Program (CHAMP), 2014 – 2018.
- ◆ Consultant – M. Davis and Company. August 2008 – present.
- ◆ Consultant – Churchill Communications, Inc. Statistical and economic analysis of clinical trials data, and other projects. December 1992 – present.
- ◆ Consultant – National Rural Letter Carriers Association. May 2007 – present.
- ◆ Consultant – Management Partnership Services. February 2004 – present.
- ◆ Consultant – Long Island Housing Partnership. June 2005 – present.
- ◆ Consultant – Ondamed, Inc. January 2009 – April 2014.
- ◆ Consultant – State of Maine Public Advocate Office. March 2005 – September 2010.
- ◆ Coordinator – College of Business Research Seminar Series. January 2007 – May 2010.
- ◆ Member – Curriculum Committee, School for Professional Development. February 2005 – May 2013.
- ◆ Faculty Director – Leadership Living Learning Center. September 2011 – December 2012.
- ◆ Member – Dissertation Committee for Volha Chuvakin, Economics Department, Stony Brook University, July – September 2007.
- ◆ Consultant – Johnson & Johnson. January 2007 – March 2007.
- ◆ Member – Data Safety Monitoring Board for DESSTINI-A Study, Department of Neurology, Stony Brook University Medical Center. May 2010 – May 2014.
- ◆ Faculty Member – Science, Mathematics, and Technology Project. Stony Brook University, November 2005 – September 2006.
- ◆ Consultant – Bracco Diagnostics, Inc. February 2005 – August 2005.
- ◆ Faculty Co-Chair – Leadership Living Learning Center Development Committee. March 2005 – December 2005.
- ◆ Member – EOP/AIM Advisory Committee. February 2005 – May 2005.
- ◆ Member – University Task Force on Academic Support Services in Athletics. February 2005.
- ◆ Director – Harriman School for Management and Policy. January 1996 – June 2004.
- ◆ Reviewer – *Essentials of Business Statistics* textbook, by Bowerman, O’Connell, and Orris, for McGraw-Hill Irwin, May 2004.
- ◆ Member – Writing Center Advisory Board, September 2002 – May 2003.
- ◆ Member – Joint Faculty Senate/Administration Task Force on Nontenure-Track Faculty, February 2002 – December 2004.
- ◆ Member – Associate Dean Search Committee, College of Engineering and Applied Sciences, October 2001 – July 2003.
- ◆ Member – Faculty Search Committee, Department of Technology and Society, September 2002 – May 2003.
- ◆ Reviewer – Business Program at Suffolk County Community College, May 2002.
- ◆ Member – Honors College Advisory Board, September 1999 – May 2001.
- ◆ Consultant – Quest Diagnostics, Inc. May 2001 – July 2001.

- ◆ University Ambassador – Annual Stony Brook Diversity Conference, 1999 and 2000.
- ◆ Member – University Task Force on Outreach and Entrepreneurship, October 1999 – March 2000.
- ◆ Member – University Committee for Middle States Review. October 1998 – May 1999.
- ◆ Member – Organizing Committee for Public Policy Institute. October 1998 – May 1999.
- ◆ Consultant – Maximus/David M. Griffith & Associates, Ltd. Management consulting. Management of vehicle fleets. September 1992 – 2001.
- ◆ Statistical Advisor – Sachem High School Honors Science Research Program. Statistical education and consultation to high school students on their science research projects. September 1998 – June 1999.
- ◆ Member – CEAS Information Systems Committee, July 1998 – September 1998.
- ◆ Member – Center for Health Policy and Management Advisory Board, Health Sciences Center, SUNY at Stony Brook. September 1995 – May 1998.
- ◆ Member – Center for Health Outcomes and Economics Advisory Board, Bristol-Myers Squibb, East Brunswick, NJ. January 1997 – June 1997.
- ◆ Reviewer – Health Services Research and Development Service Field Program, Department of Veterans Affairs, Washington, DC. June 1997 – September 1997.
- ◆ Member – Intercollegiate Athletics Advisory Board. August 1995 – May 1998.
- ◆ Coordinator – Harriman School Brown Bag Seminar Series. August 1994 – May 1995.
- ◆ Member – School for Professional Development Council. August 1994 – May 1995.
- ◆ Chair – Harriman School Committee on Faculty Workload. Spring 1995.
- ◆ Director of Graduate Studies – W. Averell Harriman School for Management and Policy. February 1988 – June 1994.
- ◆ Consultant – Syosset Community Hospital. Statistical analysis of quality assurance data for managerial decision-making. January 1994 – January 1996.
- ◆ Consultant – Bard Urological Division of C.R. Bard, Inc. Effectiveness of the silver-coated catheter in reducing hospital costs due to nosocomial infections. October 1994 – May 1995.
- ◆ Consultant – Roche Diagnostics. Hospital laboratory management. March 1994 – December 1994.
- ◆ Consultant and Instructor – Veterans Affairs Medical Center, Northport. Assist in development of Health Services Research Program; instructor in several on-site seminars. April 1993 – June 1996.
- ◆ Consultant – Wehran Corporation. Statistical analysis of ground water contamination data. June 1990 – June 1991.
- ◆ Chair – Faculty Search Committee in Operations Management. September 1992 – May 1993.
- ◆ Consultant – University Hospital Financial Planning Department. Effects of managerial interventions on hospital length of stay. March 1992 – September 1992.
- ◆ Consultant – South Nassau Communities Hospital. Analysis of mortality data; statistical consultation to Quality Assurance Department. March 1992 – March 1993.
- ◆ Consultant – University Hospital Department of Management Engineering. Statistical analysis of laundry operations data. October 1991 – April 1992.
- ◆ Consultant – Schering Corporation. Comparative cost study of two medications for the treatment of seasonal allergic rhinitis. February 1991 – March 1992.
- ◆ Member – Medical Waste Working Group, Committee on Sensitive Resources. January 1990 – June 1990.

- ◆ Coordinator – Health Care Management Seminar Series. Spring 1990.
- ◆ Consultant – Director's Office, Veterans Administration Medical Center, Northport, New York. Various projects related to length of stay and other issues. October 1987 – May 1990.
- ◆ Coordinator – Harriman School Working Paper series. January 1988 – September 1989.
- ◆ Advisor – University program for academic advising of freshmen. May 1987 – May 1988.
- ◆ Member – Harriman School Library Committee. October 1987 – February 1988.
- ◆ Director – Summer Institutes for minority students interested in public sector careers. Responsibilities include teaching, curriculum design, and development of mini-cases as well as extensive administrative duties. (Summers 1980 – 1985)
- ◆ Member – Numerous Ph.D. oral examination committees in Applied Mathematics and Statistics.
- ◆ Consultant – National Institute of Mental Health. Statistical analysis of patient characteristic data. (October 1985 – March 1986).
- ◆ Faculty Associate – Nonprofit Management Education Project. August 1985 – 1986.
- ◆ Workshop Leader – Management Sampler for Nonprofit Organizations, session on "Finding Best Routes for Meals-on-Wheels," March 12, 1986.
- ◆ Member – Public Management Subcommittee of the Management Program of the Management Program Curriculum Planning Committee. December 1984 – May 1985.
- ◆ Senator – SUSB University Senate. 1982 – 1983.
- ◆ Member – Suffolk Community Council Technical Advisory Committee. Project to assess the impact of group homes on local property values. 1983 – 1984.
- ◆ Consultant – Village of Lake Grove. Project to computerize Village Hall operations to increase efficiency and improve productivity. April 1984 – December 1986.
- ◆ Instructor – Seminar of New York State managers. January 1984.
- ◆ Consultant – Develop curriculum for Public Service Training Program, SUNY Albany. April 1984.
- ◆ Member – Graduate Council Fellowship Committee. 1981 – 1982, 1984.
- ◆ Member – Dissertation Fellowship Committee. 1981 – 1982.
- ◆ Member – Harriman College Dean Search and Screen Committee. 1982 – 1983.
- ◆ Member – Harriman College Committee on Computers. 1983 – 1984.

Professional Service:

- ◆ Session Chair, 7th International Conference on Data Envelopment Analysis, Philadelphia, PA, July 10-12, 2009.
- ◆ Chair – Marketing Session, INFORMS Annual Meeting 2003, Atlanta, GA, October 19-22, 2003.
- ◆ Textbook Reviewer – *The Practice of Business Statistics* by David Moore, George McCabe, Bill Duckworth, and Stanley Sclove, W. H. Freeman and Company. February 2002.
- ◆ Software reviewer – *Visual Statistics*, by Doane et al. For Irwin/McGraw-Hill, May 1999.
- ◆ Chair – Panel on "The Interface of Research with Quality Health Care from Perspectives of (a) Academe, (b) Clinical Practice/Research, and (c) Health Care Policy, Economics & Management: Issues and Strategies for the New Millennium" for the Veterans Affairs Medical Center, Northport, NY, April 24, 1998.
- ◆ Stony Brook Representative – International Society for Pharmacoeconomics and Outcomes Research Committee on Student Activities. May 1998 – May 1999.

- ◆ Textbook Reviewer – *Statistics for Business and Economics*, Heinz Kohler, third edition, HarperCollins. October 1991 – February 1993.
- ◆ Member – Operations Research Society of America Education Committee.
- ◆ Nominee – Council of the Transportation Science Section of the Operations Research Society of America, 1986.
- ◆ Chairperson – Microcomputers and Modeling session at TIMS/ORSA Joint National Meeting, Chicago, Illinois, April 1983.
- ◆ Chairperson – Business Applications session at ORSA/TIMS Joint National Meeting, Orlando, Florida, November 1983.
- ◆ Referee for the following journals:
 - Journal of Productivity Analysis
 - Management Science
 - Operations Research
 - Transportation Science
 - Transportation Research
 - Interfaces
 - European Journal of Operational Research
 - Asia-Pacific Journal of Operational Research
 - Journal of the Operations Research Society
 - Networks
 - RAIRO – Operations Research
 - International Transactions in Operational Research
 - International Federation of Operational Research Societies
 - Annals of Operations Research
 - American Journal of Mathematical and Management Sciences
 - Omega
 - Mathematical and Computer Modeling
 - Applied Mathematics Letters
 - Journal of Sports Economics
 - Journal of Sport Management
 - Medical Care
 - Health Care Management Science
 - Nonprofit Management and Leadership
 - Socio-Economic Planning Sciences

Professional Organizations:

- ◆ Institute for Operations Research and the Management Sciences
- ◆ American Statistical Association

Other Work Experience:

- 1977 – 1979: Research Associate – Research Foundation of the State of New York, SUNY at Stony Brook.
Member of a study team on a project to determine the effects of energy constraints on passenger transportation in the New York - New Jersey - Connecticut tri-state region.

- 1969 – 1977: Reliability Engineer – Grumman Aerospace Corporation, Bethpage, NY. Performed research and development of mathematical methods to assess and improve the reliability and maintainability of hardware and computer software. Provided consulting and analytical services to several aircraft and spacecraft projects.

Funded Research:

1. Statistical analysis of Paratransit (Access-A-Ride) Customer Satisfaction Survey, Metropolitan Transportation Agency New York City Transit, for M. Davis and Company, August 2018 – May 2020.
2. Statistical analysis of survey data from the Department of Veteran Affairs, Supportive Services for Veteran Families Program, Program Participant Satisfaction Survey, for M. Davis and Company, January 2016 – Present.
3. Statistical analysis of survey data from the New York City Emergency Management (Disability, Access and Function Needs) Evacuation Study, for M. Davis and Company, December 2016 – September 2017.
4. Statistical analysis of Performance Based Surveys for the East-West Gateway Council of Governments (St. Louis, MO), for M. Davis and Company, April 2014 – June 2015.
5. Statistical analysis of survey data from the Evaluating a High Visibility Enforcement Texting Program, National Highway Traffic Safety Agency, for M. Davis and Company, October 2012 – January 2015.
6. Statistical analysis of survey data from the Institute of Museum and Library Services, National Study on the Use of Libraries, Museums and the Internet, for M. Davis and Company, March 2011 – May 2013.
7. Statistical analysis of survey data from the Nighttime Seatbelt Enforcement Campaign, National Highway Traffic Safety Agency, for M. Davis and Company, December 2010 – March 2014.
8. Statistical analysis of survey data from the National Survey on Reported and Unreported Motor Vehicle Crashes, National Highway Traffic Safety Agency, for M. Davis and Company, October 2009 – March 2011.
9. Statistical analysis of survey data from the Veterans Preference Survey for the New Louisville VAMC, Veterans Administration, for M. Davis and Company, May 2009 – present.
10. Statistical analysis of survey data and preparation of Interpretative Results report for the Automated Speed Enforcement Project, National Highway Traffic Safety Agency, for M. Davis and Company (May 2009 – July 2009).
11. Statistical analysis of data from the Department of Housing and Urban Development surveys for the Determination of Fair Market Rents, for M. Davis and Company, March 2009 – September 2010.
12. Statistical analysis of clinical trial data for push and pump methods of administration of subcutaneous immunoglobulin replacement in patients with primary immune deficiency, for Churchill Communications, January 2009 – March 2009.
13. Statistical analysis of survey data from the National Alcohol Crackdown Campaign, National Highway Traffic Safety Agency, for M. Davis and Company, December 2008 – March 2009.
14. Statistical analysis of clinical trial data to evaluate the effectiveness of Ondamed treatment for smoking cessation, for Ondamed, Inc., November 2008 – January 2009.

15. Statistical analysis of clinical trial data to estimate the toxicology and chelating effects of SierraSil, for Sierra Mountain Minerals, April 2008 – November 2008.
16. Evaluation of pupil transportation funding formula in Washington State, for Management Partnership Services, October 2007 – April 2009.
17. Statistical analysis of letter carrier average speed, in support of contract arbitration, for National Rural Letter Carriers Association, May 2007 – December 2007.
18. Evaluation of pupil transportation funding formula in Kentucky, for Management Partnership Services, March 2007 – September 2007.
19. Meta-analysis of Monistat for vaginal candidiasis, for Johnson & Johnson, January 2007 – March 2007.
20. Statistical analysis of Alternative Form of Regulation plan, in support of testimony to the Maine Public Service Commission in the case of Verizon Maine, October 2006.
21. Evaluation of pupil transportation funding formula in North Carolina, for Management Partnership Services, February 2006 – June 2006.
22. Evaluation of pupil transportation funding formula in Washington State, for Management Partnership Services, April 2006 – June 2006.
23. Evaluation of school bus routes and schedules in Fairfax County, Virginia, for Management Partnership Services, July 2006 – November 2006.
24. Analysis of statistical components of Long-Range Integrated Resource Plan, in support of testimony to the Maine Public Service Commission in the case of Northern Utilities, July 2006 – September 2006.
25. Cost analysis of contrast induced nephropathy, for Bracco Diagnostics, February 2005 – August 2005.
26. Analysis of survey data, for Maine Office of the Public Advocate, in support of testimony to the Maine Public Service Commission in the case of Verizon, March 2005 – October 2005.
27. Efficiency assessment of electric utility transmission and distribution systems nationwide, for Maine Office of the Public Advocate, in support of testimony to the Maine Public Service Commission in the case of Bangor Hydro Electric (October 2003 – January 2004).
28. Efficiency assessment of electric utility transmission and distribution systems nationwide, for California Office of the Public Advocate, in support of testimony to the California Public Service Commission in the case of Pacific Electric & Gas (February 2002 – September 2002).
29. Assessment of the funding process for public school transportation in New Mexico, for David M. Griffith & Associates (January 1998 – June 2000)
30. Operational assessment of the Micro21 for complete blood counts, for IMI, Inc. (June 1998 – August 1998)
31. Efficiency assessment of electric utility transmission and distribution systems nationwide, for ETI, Inc., in support of testimony to the California Public Service Commission (February 1998 – August 1998)
32. Determination of the efficacy of GM-CSF on the healing of venous stasis ulcers, for Schering-Plough Research Institute (October 1997 – March 1998)
33. Evaluation of persistence with antihypertensive therapy in a managed care organization, for Bristol-Myers Squibb and Sanofi Pharmaceuticals (October 1997 – November 1997)
34. Critical pathway analysis for four specific diagnosis related groups, for Syosset Community Hospital as funded by New York State Department of Health (February 1995 – January 1996)

35. Statistical analysis for "Dopaminergic Enhancement of Functional Communication in Nonfluent Aphasia," for Department of Veterans Affairs (June 1995 – December 1995)
36. Economic impact analysis of the Pine Barrens Land Use Plan, for Central Pine Barrens Joint Policy and Planning Commission (April 1994 – June 1995)
37. Effectiveness of the silver-coated urinary catheter in reducing hospital costs due to nosocomial infections, for Bard Urological Division of C.R. Bard, Inc. (October 1994 – May 1995)
38. Efficiency analysis of nursing homes and hospitals in New York State, for New York State Department of Health (June 1994 – May 1996)
39. Improving outcomes and quality of care in laparoscopic cholecystectomy, for Syosset Community Hospital (August 1994 – December 1994)
40. Critical pathway analysis for congestive heart failure, to identify determinants of length of stay, for Syosset Community Hospital (April 1994 – August 1994)
41. Cardiac risk factor patient education project, Department of Cardiology, University Hospital, Stony Brook, NY (June 1993 – April 1994)
42. Analysis of clinical trial data in a study comparing two intravenous analgesics used for postoperative pain relief, for Churchill Radius, Inc. (March 1993)
43. Analysis of clinical trial data in a study comparing two intramuscular analgesics used in hospital emergency departments, for Churchill Radius, Inc. (December 1992)
44. Establishment of reimbursement rates for student transportation for school districts in North Carolina, using Data Envelopment Analysis, for Ernst and Young (February 1990 – March 1992).
45. Analysis of clinical trial data in a study comparing Vancenase AQ nasal spray with chlorpheniramine with respect to cost, adverse experiences, and quality of life, for Schering-Plough Corporation. (February 1991 – March 1992).
46. The Determinants of Costs, Mortality Rates, Length of Stay and Patient Demographics in Long Island Hospitals, for the Nassau-Suffolk Hospital Council and the Hospital Association of New York State (August 1986 – July 1991).
47. Analysis of the influence of alternative discharge planning methods on patient length of stay in the Veterans Administration Medical Center, Northport, New York, using analysis of covariance (October 1987 – June 1990).
48. Analysis of clinical trial data from growth hormone study, for Dr. Andrew Green, University Hospital (October – December 1989).
49. Analysis of trends in groundwater pollution surrounding landfills, for Wehran Envirotech (June 1989 – October 1989).
50. Efficiency analysis, using Data Envelopment Analysis, of the medical centers operated nationwide by the Veterans Administration (January 1987 – December 1987).
51. Analysis of the relative efficiencies of the nursing homes in the State of Maine, using Data Envelopment Analysis, for the Health Care Financing Agency (1985 – 1987).
52. Statistical analysis of patient characteristic data, for the National Institute of Mental Health (1985 – 1986).
53. Study of the medical staffing problem at the Oxford Gerontology Center using analysis of variance and network flow models to minimize costs (1984).
54. Analysis of the economic impacts of beachfront state-operated parks on Long Island, including the application of a recreational trip generation and distribution model, for the New York State Department of Parks and Recreation (1982).

55. Mathematical programming analysis of vehicle routing and scheduling problems, specifically the many-to-many subscriber (dial-a-ride) problem, for U.S. Dept. of Transportation, Urban Mass Transportation Administration (1978 – 1979), and for the U.S. Department of Commerce, National Bureau of Standards (1981).
56. Analysis of the effects of energy constraints on passenger transportation in the New York, New Jersey, Connecticut tri-state region under various scenarios for the year 1990, for the Tri-State Regional Planning Commission (1977 –1979).

Reports:

1. Retting, R., Ballou, M., Sexton, T., Miller, R., Rothenberg, H., Kerns, T., & Johnson, A. (2018, April). Evaluation of nighttime seat belt enforcement demonstration program and identification of characteristics of unbelted high-risk drivers (Report No. DOT HS 812 474). Washington, DC: National Highway Traffic Safety Administration.
2. National Highway Traffic Safety Administration. (2018, April). Evaluation of Maryland's nighttime seat belt demonstration program (Traffic Tech. Report No. DOT HS 812 473). Washington, DC: Author.
3. An Economic Model for Determining the Cost-Effectiveness of Bardex I.C. Hydrogel/Silver Coated Foley Catheters in a Hospital Setting (with R. H. Silkman and A. M. Leiken), to Bard Urological Division, March 1995.
4. Economic Impact Analysis of the Central Pine Barrens Draft Comprehensive Land Use Plan (with R. H. Silkman, A. Zhukovsky, and B. Bernstein), to Central Pine Barrens Joint Planning and Policy Commission, January 1995.
5. Economic Impact Analysis of the Pine Barrens Land Use Plan: Background and Existing Conditions (with R. H. Silkman, A. Zhukovsky, and B. Bernstein), to Central Pine Barrens Joint Planning and Policy Commission, August 1994.
6. Analysis of Mortality Data: Medicare Patients – 1988 - 1991 (with A. M. Leiken), to South Nassau Communities Hospital, October 1993.
7. Comparative Study of Toradol 30 mg i.v. versus Fentanyl 50 mcg i.v. for Postoperative Pain Management in Outpatients: A Statistical Analysis, to Churchill Radius, Inc., March 1993.
8. Comparative Study of Ketorolac 60 mg i.m. with Meperidine 100 mg i.m. in an Emergency Department Setting: Statistical Analysis, to Churchill Radius, Inc., December 1992.
9. Analysis of Mortality Data: Medicare Patients 1988 – 1990 (with A. M. Leiken), to South Nassau Communities Hospital, June 1992.
10. An Open-Label, Cost Study of Vancenase AQ Nasal Spray vs. Chlorpheniramine in Seasonal Allergic Rhinitis – A Cost Analysis (with A. M. Leiken and M. T. Sexton), to Schering Corporation, March 1992.
11. Predicted and Observed Mortality Rates by DRG for All Participating Hospitals (with A. M. Leiken), to Nassau-Suffolk Hospital Council, July 1987.
12. The Impact of Prospective Reimbursement on the Relative Efficiency of Nursing Homes in Maine (with A. M. Leiken and S. Sleeper), to University of Southern Maine and the Health Care Financing Administration, May 1987.
13. Cost Analysis of Cardiac Surgery Patients at Six VA Medical Centers (with A. M. Leiken), to Veterans Administration, May 1987.
14. The Determinants of Mortality Rates in Long Island Hospitals: Medicare Patients (with A. M. Leiken, A. Nolan, and S. Sleeper), to Nassau-Suffolk Hospital Council, April 1987. Addendum, June 1987.

15. Optimal Nurse Staffing at Oxford (with A. M. Leiken and R. H. Silkman), to Oxford Gerontology Center, Oxford, New York, November 1984.
16. The 1984 APPAM Summer Institute at Stony Brook, to Alfred P. Sloan Foundation, October 1984.
17. Using a Personal Computer in Village Hall: A Feasibility Study, to Lake Grove Board of Trustees, July 1984.
18. The 1983 APPAM Summer Institute at Stony Brook, to Alfred P. Sloan Foundation, October 1983.
19. The Economic Value of State Operated Beachfront Parks on Long Island (with R. H. Silkman, T. O. Carroll and Y. Chan), to New York State Department of Parks and Recreation, December 1982.
20. The 1982 APPAM Summer Institute at Stony Brook, to Alfred P. Sloan Foundation, September 1982.
21. Documentation for SVMMRSP – A Computer Program for the Single Vehicle Many-to-Many Routing and Scheduling Problem, to U.S. Department of Commerce, National Bureau of Standards, September 1981.
22. The 1980 Summer Minorities Institute at Harriman College, to Alfred P. Sloan Foundation, March 1981.
23. Machine Scheduling at Arkay: A Description of the Input Data and the Scheduling Algorithm, to Brookhaven Information Technology, January 1980.
24. Machine Scheduling at Arkay: A Statement of the Problem and a Description of the Input Data and Output Modules, to Brookhaven Information Technology, November 1979.
25. The Subscriber Dial-A-Ride Problem (with L. Bodin), to U.S. Department of Transportation, Urban Mass Transportation Administration, July 1979.
26. Impacts of Energy Constraints on Passenger Transportation in the Tri-State Region (with E. Beltrami, T. O. Carroll, and D. R. Young), to Tri-State Regional Planning Commission, February 1979.
27. Impacts of Energy Constraints on Passenger Transportation in the Tri-State Region – Technical Approach (with E. Beltrami, T. O. Carroll, and D. R. Young), to Tri-State Regional Planning Commission, March 1978.
28. Energy Futures for Passenger Transportation in the Tri-State Region (with E. Beltrami, T. O. Carroll, and D. R. Young), to Tri-State Regional Planning Commission, October 1977.