TED H. SZATROWSKI   (SEPT. 2021)

EDUCATION

Stanford University   1976   Ph.D.   Statistics

Stanford University   1971   M.S.   Statistics

Oberlin College   1970   B.A.   Mathematics

EXPERIENCE

2001
: Acting Chair, MSIS Dept, (Spring 2001)
Rutgers University, Newark, NJ 07102

1991-1993
: MBA Academic Director, Graduate School of Management,
Rutgers University, Newark, NJ 07102

1986-
: Professor, Graduate School of Management,
Rutgers University, Newark, NJ 07102

1981-1986
: Associate Professor, Graduate School of Management,
Rutgers University, Newark, NJ 07102

1979-1983
: Visiting Research Scientist and Consultant,
Educational Testing Service, Princeton, NJ

1979-1980
: Visiting Investigator, Biostatistics Laboratory,
Sloan-Kettering Cancer Center, New York City, NY

1975-1981
: Assistant Professor, Department of Statistics,
Rutgers University, New Brunswick, NJ

1977-1979 (Summers)
: Visiting Scholar, Department of Statistics,
Stanford University, Stanford, CA

1974-1975
: Lecturer, Department of Statistics,
Rutgers University, New Brunswick, NJ

1970-1974
: Teaching and Research Assistant, Department of Statistics,
Stanford University, Stanford, CA

1970-1973
: National Science Foundation Competitive Fellow,
Stanford University, Stanford, CA

1967-1970 (Summers)
: Programmer and Analyst, Management Science,
IBM, Corporate Headquarters, Armonk, NY

PROFESSIONAL ACTIVITIES

1980-1982   Member: American Statistical Association Committee on Women in Statistics

Reviewer: Annals of Statistics, Communications in Statistics, Economic Theory, Journal of Educational Statistics, Journal of the American Statistical Association, Linear Algebra and Its Applications, National Science Foundation, Psychometrika

HONORS

2004-05 RBS-New Brunswick Chapter of Alpha Kappa Psi: Faculty Service Award
1986 American Educational Research Association Palmer O. Johnson Award
1984 Horace de Podwin Research Award
Fall.2016,Sp.2006, Sp, 2000, 1992; Fall, 1986; Sp., 1983; Fall, 1979: FASP Sabbatical Leave
Summers: 1982, 1983, 1985: Graduate School of Management Fellowship
Summer, 1977, Rutgers Competitive Summer Fellowship
1970 B.A. Summa Cum Laude
Phi Beta Kappa
National Science Foundation Competitive Fellow

PROJECT EXPERIENCE

1986-1990   Principal Investigator, NIH Grant, "Research on patterned covariance matrices", R01 GM35273-01A1, ($236,000).

1988-1989   Consultant, Dupont Chemicals

1983-1986   Principal Investigator, NSF Grant, "Computer software and research on patterned covariance problems", MCS-83-01718 ($43,000).

1984   Consultant, Major Petroleum Company

1983   Consultant, "Danbury Prison Overcrowding Lawsuit", for Silver, Golub and Sandak.

1980-1982   Co-principal Investigator, Educational Testing Service (ETS) Project, "Advanced shipping study". (with P.W. Holland).

1980-1982   Co-principal Investigator, ETS Project, "Law school validity study". (with H.I. Braun).

1980-1981   Co-principal Investigator, ETS Project, "Work leveling project". (with H.I. Braun).

1980-1981   Co-principal Investigator, ETS Project, "CICS response time study". (with H.I. Braun).

1979-1980   Co-principal Investigator, ETS Project, "Content validity problems". (with D.H. Jones).

1978-1980   Principal Investigator, NSF Grant, "Estimation and testing for patterned means and covariance in multivariate analysis." MCS 77-28184 ($14,000).

PUBLICATIONS

Corporate culture and financial performance: a preliminary investigation. (with N. DiTomaso and G. Gordon). *Perspectives in Socio-Economics*, Edited by A. Etzioni and P. Lawrence, M.E. Sharpe, 1990.

Commentary on three papers of T.W. Anderson. *Collected Papers of TW Anderson*, Edited by George P.H. Styan, John Wiley and Sons, New York, 1990, 1659-1662.

Statistical Primer for Real Estate Problem Solving. (with Norman Benedict). Publisher: American Society of Real Estate Counselors, November, 1989.

Videotape Lectures: Basic Mathematical Techniques: 18-hour short course (Six 3-hour lectures). (1989). Publisher: Educational Videotapes.

Videotape Lectures: Basic Statistical Techniques: 27-hour short course (Nine 3-hour lectures). (1989). Publisher: Educational Videotapes.

Young adults with cystic fibrosis: clinical features, survival rates and prognostic factors. (with N.N. Huang, D.V. Shidlow, J. Palmer, L. R. Laraya-Cuasay, W. Weung, K. Hardy, L. Quitell, S. Fiel). *The American Journal of Medicine*, **82**, 1987, 871-879.

Sample size savings for curtailed one-sample nonparametric tests for location shift. (with N. Herrmann) *Annals of Statistics*, **15**, 1987, 296-313.

Prognostic significance of terminal deoxynucleotidyl transferase activity in acute nonlymphoblastic leukemia. (with P. Benedetto, R. Mertelsmann, M. Andreeff, T. Gee, Z. Arlin, S. Kempin, B. Clarkson). *Journal of Clinical Oncology*, **4**, 1986, 489-495.

Videotape Lectures: Basic Mathematical Techniques: 30-hour short course (Fifteen 2-hour lectures). (1986). Publisher: Educational Videotapes.

Videotape Lectures: Basic Statistical Techniques: 30-hour short course (Fifteen 2-hour lectures). (1986). Publisher: Educational Videotapes.

The relationship between two parameterizations of linear patterned mean and covariance models. *Communications in Statistics, A, Theory and Methods*, **14**, 1985, 1709-1712.

Relationship of auer rods and chromosome findings to outcome in eighty-nine adults with acute nonlymphoblastic leukemia. (with M.K. Kris, R. Mertelsmann, S. Jhanwar, R. Chaganti, T.S. Gee, Z. Arlin, S. Kempin, P. Benedetto, B. Clarkson), *Leukemia Research*, **9**, 1985, 1231-1235.

Patterned means, **Encyclopedia of Statistical Sciences**, vol 6, ed. by S. Kotz and N.L. Johnson, New York: John Wiley & Sons, 1985, 641-642.

Patterned covariances, **Encyclopedia of Statistical Sciences**, vol 6, ed. by S. Kotz and N.L. Johnson, New York: John Wiley & Sons, 1985, 638-641.

Missing data in the k-population multivariate normal patterned mean and covariance matrix testing and estimation problem. *Communications in Statistics, B, Simulation and Computation*, **14**, 1985, 357-370.

Asymptotic distributions in the testing and estimation of the missing-data multivariate normal linear patterned mean and correlation matrix testing and estimation problem. *Linear Algebra and Its Applications*, **67**, 1985, 215-231.

Curtailed binomial sampling procedures for clinical trials with paired data. (with N. Herrmann), *Controlled Clinical Trials*, **6**, 1985, 25-37.

A note on confidence interval estimation following curtailed binomial tests. (with N. Herrmann), *Sequential Analysis*, **3**, 1984, 75-83.

The scale-linkage algorithm: construction of a universal criterion scale for families of institutions. (with H. Braun). *Journal of Educational Statistics*, **9**, 1984, 311-330.

Validity studies based on a universal criterion scale. (with H. Braun) *Journal of Educational Statistics*, 9, 1984, 331-344.

Missing data in the one-population multivariate normal patterned mean and covariance matrix testing and estimation problem, *Annals of Statistics*, **11**, 1983, 947-958.

Prognostic significance of receptors for the third component of complement and heavy chain phenotype in diffuse B cell lymphomas. (with E. Gold, R. Mertelsmann, D. Filippa, B. Koziner, B. Clarkson), *Blood*, **62**, 1983, 107-111.

On the statistical determination of content validity. (with D.H. Jones) *Educational and Psychological Measurement*, 4, 1983, 995-1004.

Relative efficiencies of estimates using patterned covariances or correlations in the multivariate normal estimation problem. *Annals of the Institute of Statistical Mathematics, A*, **34**, 1982, 299-307.

Asymptotic formulas for expected sample size savings in curtailed binomial tests. (with N. Herrmann) *Sequential Analysis*, **1**,1982, 221-245.

Finding maximum likelihood estimates of patterned covariance matrices by the EM algorithm. (with D.B. Rubin) *Biometrika*, **69**, 1982, 657-60.

Testing and estimation for block compound symmetry. *Journal of Educational Statistics*, **7**, 1982, 3-18.

Discussion of "Section pre-equating: A preliminary investigation byP.W. Holland and L. Wightman." (with D.B. Rubin) **Test Equating**, ed. by P.W. Holland and D.B. Rubin, New York: Academic Press, 1982, 301-306.

A controlled trial of prophlactic trimethoprim-sulfamethoxazole during consolidation chemotherapy for acute leukemia. (with B. Weiser, M. Lange, M.A. Fialk, C. Singer, D. Armstrong) *Annals of Internal Medicine*, **95**, 1981, 436-438.

Expected sample size savings from curtailed procedures for the t-test and Hotelling's T2. (with N. Herrmann) *Annals of Statistics*, **8**, 1980, 682-686.

Explicit maximum likelihood estimates in the mixed model of the analysis of variance. (with J.J. Miller) *Annals of Statistics*, **8**, 1980, 811-819.

Necessary and sufficient conditions for explicit solutions in the multivariate normal estimation problem for patterned means and covariance. *Annals of Statistics*, **8**, 1980, 802-810.

Asymptotic nonnull distributions for likelihood ratio statistics in the multivariate normal patterned mean and covariance testing problem. *Annals of Statistics*, **7**, 1979, 823-837.

Explicit solutions, one iteration convergence and averaging in the multivariate normal estimation problem for patterned means and covariances. *Annals of the Institute of Statistical Mathematics, A*, **30**, 1978, 81-88.

Expected sample size saving for modifications of some one-population fixed sample nonparametric tests. (with N. Herrmann) *American Statistical Association 1978 Proceedings of the Statistical Computing Section*, 1978, 249-251.

Courses Taught:
MSIS Department, RBS (1981-present)

Undergraduate Courses:
Statistical Methods in Business (New Brunswick)
Research Methods in Business (Newark)

MBA Courses:
Basic Mathematical Techniques
Basic Statistical Techniques
Data Models
Regression Analysis
Statistical Models
Applied Multivariate Analysis

Ph.D. Courses:
Linear Statistical Models
Introduction to Probability

Statistics Department, Rutgers University (1974-1981)

Undergraduate Courses:
Introduction to Statistics (Business and Economics Section)
Introduction to Statistics (Education Section)
Introduction to Statistics (Psychology Section)
Regression Analysis

Graduate Courses:
Theory of Probability I,II
Theory of Statistics I,II
Design of Experiments
Applied Multivariate Analysis

Selected Service:
Faculty Scheduling Committee (2018-2019)-advising on INFOSILM implementation

University Senate (2006-present); Executive Committee (2006-07), ASRAC (2006-present)

New Brunswick Faculty Council (1/99-2005, 2007-present), Executive Committee (2018-2019)

Newark Faculty Council 2009-2015, 2016-2019

RBS Planning Committee (2020-21, 2021-22)

RBS MBA Policy Committee, Fall, 2005

RBS Nominating Committee: Chair: 2002-2005; 2007-2015

RBS Rules and Procedures Committee: Chair: 2002-2005, Member 2005-2015

FASIP Peer Review Committee (Sp. '98, Chair; F. '98, Chair; F. '00, Chair; F '01,Chair; F '02,Chair; F'04,Chair;)

University Senate: (1994-2005); Budget and Planning Committee (1995-2005; Co-chair 2001-02, 03-05; Chair 2002-2003;);Appeals Committee (2003-Fall,2004); Vice Chair (1996-97)

Faculty Promotion Grievance Hearing Committee, Chair, Spring, 2005

Faculty Promotion Grievance Hearing Committee, Chair, Spring, 2004

Faculty Promotion Grievance Counselor, Summer, 2002- Spring, 2004

AAUP: Bargaining Team Member for 2003-04 contract negotiation

Rutgers University President's Faculty Advisory Council (1998-99,2001-2002)

Newark Provost Faculty Advisory Council (1997-2000,2001-2004), Secretary (1998-99,2001-02)

Appointments and Promotions Committee, GSM: Chair (1993-1995)

San Fillipo vs Rutgers University: Chair of University Senate Dismissal Hearing Panel-testified in federal court (1995)

MBA Director, New Brunswick Campus, (1991-1993)

Chair, GSM Merit Committees: (1989-1993)

Proficiency Exam Administrator (1987-1993)

GSM Student Course Evaluation Administrator (1985-1993)

Bylaws Committee: Three Business Units (1991-1992); GSM (1992-1993)

AAUP: Executive Committee (1991-1993); Steering Committee (1991-1992)

AAUP: Bargaining Team Member for 1986-1989 contract negotiation (1987)

University Senate: (1985-1987); Vice Chair (1986-87); Chair, San Fillipo Dismissal Hearing Panel (1986-1987); Educational Policy Committee (1985-1986)

Selected List of seminars, conferences, lectures attended (in person, remote synchronous or asynchronous)

4/29/21 MSIS Dept Seminar, Gustavo Vulcano: The Value of Observability in Dynamic Programming

4/22/21 MSIS Dept Seminar, Gemin George: Decentralized Learning-Operationalizing AI for MDO

4/15/21 MSIS Dept Seminar, Amin Karbasi: Robust Combinatorial Optimization Though Non-Convex Relaxation

4/8/21 MSIS Dept Seminar, Michael Pinedo: Operational Risk Management: Preventive vs Corrective Control

4/1/21 MSIS Dept Seminar, Chunyang Tong: The Impact of Physician-Hospital Inegration on China's Referral-Based Healthcare System

3/25/21 MSIS Dept Seminar, A. Shapiro Distributionally Robust Stochastic Programming

3/11/32 MSIS Dept Seminar, Hamed Hassani: Two Facets of Learning Robust Models: Fundamental Limits and Generalization to Natural Out-of-Distribution Inputs

2/25/21 MSIS Dept Seminar, Spyros Angelopoulos: The power of predictions in online computation

2/4/21 MSIS Dept Seminar, Manel Baucells: Range Utility Theory for Risk and Time with Applications to Game Theory.

1/28/21 MSIS Dept Seminar, Bo Chen: Atomic Dynamic Flows: Adaptive versus Non-adaptive Agents

12/10/20 MSIS Dept Seminar, Kyle Lin: Optimal Patrol of a Perimeter

11/19/20 MSIS Dept Seminar, Milind Tambe: AI for Public Health & Conservation: Learning and Planning in the Data to Deployment Pipeline

11/12/20 MSIS Dept Seminar, Peter E. Caines: An Optimal Execution Problem in Finance Targeting the Market Trading Speed: an MFG Formulation

10/15/20 MSIS Dept Seminar, Esra Buyuktatakin Toy: Scenario Dominance for Risk-Averse Multi-State Stochastic Mixed-Integer Programs

10/8/20 MSIS Dept Seminar, David Simchi-Levi: Bypassing the Monster: A Faster and Simpler Optimal Algorithm for Contextual Bandits under Realizability

9/24/20 MSIS Dept Seminar, Matt Weinberg: (A biased selection of) Recent Developments in Combinatorial Auctions