

TED H. SZATROWSKI

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 Visiting Scholar, Department of Statistics,
(Summers) 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 Programmer and Analyst, Management Science,
(Summers) 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 by P.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 prophylactic 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:

University Senate (2006-present); Executive Committee (2006-07), Inst.Curr.,Advising Committee (2006-07)

New Brunswick Faculty Council (1/99-2005, 2007-present)

Newark Faculty Council 2009-2015, 2016-present

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

11/29/2017 Dylan Small, Football and Mental Functioning: An Observational Study, Statistics Dept. seminar, Rutgers

10/4/2017 Jiashun Jia Coauthor and Citations-Network of Statistics, Statistics Dept. seminar, Rutgers

9/27/2017 Chaotic Regression-A simple Method from Complex Theory, Statistics Dept. seminar, Rutgers

9/26/2017 Khaled Ebassponi Exact Algorithm for List-coloring of Intersecting Hypergraphs, MSIS Seminar, Rutgers

9/20/2017 Pranjal Awasthi Efficient Learning from the Crowd, Statistics Dept. seminar, Rutgers

4/8/2016 Rethinking the Flipped Classroom

1/28/2016 Yan Li Optimal Learning for Scientific Discovery

10/3/2015 4th Rutgers Applied Probability Conference

5/12/2015 Periklis Papakonstantinou, IIS, Tsinghua University, Some problems at scale: learning, encryption, true randomness extraction, MSIS seminar, Rutgers U.

5/11/2015 Abdeltawab Hendawi, U. of Minnesota, Spatial predictive queries processing over road Networks, MSIS seminar, Rutgers U.

4/22/2015 Anand Sarwate, DECE, Rutgers, Algorithms for Differentially Private Learning, Dept. of Stat. and Biostat. Rutgers U

3/25/2015 Annie Qu Department of Statistics University of Illinois at Urbana-Champaign Weak Signal Identification and Inference in Penalized Model Selection

2/5/2015 Anru Zhang Dept Stat. Wharton, U. of Penn: High Dimension, Low Rank Matrix Recovery; Dept. of Stat. and Biostat. Rutgers U

1/30/2015 Innovations in Statistics and Data Analysis Dept. of Stat and Biostat. David Dawson Duke University Bayesian inference for Network valued data

11/20/2014 Peter Scheuermann, DEECS, Northwestern U. User Mobility Patterns: A Gold Mine for Intrusion Detection of Mobile Devices, MSIS Seminar, Rutgers

10/16/2014 Robert Schapire, Microsoft Research & Princeton University A Fast and Simple Algorithm for the Contextual Bandits Problem, Rutgers Workshop on big Data

10/16/2014, Dean Foster, Yahoo Labs, NYC**/&/ University of Pennsylvania, Stepwise Regression: The Red-headed Stepchild of Statistics, Rutgers Workshop on big Data

10/16/2014, Eric Xing, Carnegie Mellon University, On Data Parallelism and Model Parallelism for Large Scale Machine Learning Rutgers Workshop on big Data

10/14/2014 Teaching and Technology-Going Digital? Sponsored by NBFC RU Teaching Conference

5/8/2014 Moustafa AbdelBaky, RDI2, Rutgers ECE, Running Value at Risk Analysis using High Performance Computing as a Service, MSIS seminar, Rutgers

5/5/2014 Eun Kyung Lee CPSLAB, Rutgers ECE, Autonomic Thermal Management in Datacenters, MSIS seminar, Rutgers

4/25/2014 Dr. Guangcan Liu, Matrix Recovery by Low-Rank Presentation

4/24/2014 Dr. John Langford, Senior research at Microsoft Research@NYC: Learning to Interact Dept. of Stat. and Biostat, Rutgers

4/23/2014 Faculty Industry Symposium, Livingston Student Center

4/10/2014 Dr. Silvio Lattanzi, Senior Research Scientist at Google Research, New York: Large scale graph-mining, Dept. of Stat. and Biostat.

4/3/2014 Dr. Wei Liu, IBM Research: Handling Big Data: Machine Learning Perspective, Dept. of Stat and Biostat., Rutgers U

3/3/2014 Jason Perry Putting Secure Computation to Work MSIS Dept. Rutgers

2/28/2014 Prof. Vincent Poor, Princeton University Privacy in the Smart Grid: An information Theoretic Framework, Dept of Stat. and Biostat.

2/24/2014 Prof. Ronen Feldman, Hebrew University of Jerusalem, Which News Moves Stock Prices? A textual Analysis, MSIS Seminar, Rutgers

1/31/2014 Dr. Mariin Goldberg Lead Consultant at ValidationQuant.com: Stat Dept. Seminar FSRM Practitioner's Seminar: Statistical Quirks, Subtleties and Surprises in Financial Data

12/4/2013 Statistics and Biostatistics Professor Ying Wei, Columbia University, Quantile Secondary Analysis for Case-Control Studies with Application to GWAS Data

11/25/2013 MSIS Seminar-David Lorenzi, Rutgers, Webs Services-Based Attacks for Image CAPTCHAs

11/17/2013 MSIS Seminar Flip Korn AT&T Data Quality Mining

11/11/2013 MSIS Seminar SÄ±tkÄ± GÄ¼lten-Two State Portfolio Optimization with High Order Conditional Measures of Risk

11/8/2013 DIMACS Andrea Collevocchio, University Ca' Foscari-Venice and Monash, Generalized Preferential Attachment Models

11/8/2013 DIMACS Gabriel Faraut, WIAS Berlin, Connection Times in Large Ad-hoc Mobile Networks

11/7/2013 DIMACS Spiros Papadimitriou Rutgers, Graph Models and Scalable Analytics

11/7/2013 DIMACS Hanghang Tong, CUNY, The Dynamics of Dissemination on Graphs: Theory and Algorithms

11/7/2013 DIMACS Jonathan Chang, Facebook Large-Scale Graph Analysis Using Giraph

11/7/2013 DIMACS George Davis, Knewton Real Time Processing of Graphical Models in Education

10/17/2013 Statistics and Biostatistics Big Data Seminar Series-Professor Ping Li, Rutgers, : Flexible Statistical Modeling from Massive Data by boosting and Trees (and Comparisons with Deep Learning)

9/25/2013 Statistics Dept. Seminar-Donald Hoover Regression With Repeated Measures: A Warning That Non-Independence Working Correlations May Give ILL-Defined Results

9/16/2013 Statistics Dept. Seminar Michael Levine, Purdue, Nonparametric Regression with Rescaled Times Series Errors

9/12/2013 Sheldon Ross - Stochastic Model Lecture Series

9/11/2013 Statistics Dept. Seminar- Prof. Jingchen Liu, Columbia University. :Statistical Inforence for Diagnostic Classification Models

12/31/2017