

Rutgers Business School-Newark and New Brunswick  
 Department of Management Science and Information Systems  
 § One Washington Park Room 1058  
 Newark, New Jersey 07102  
 § 100 Rockefeller Road Room 5142  
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## Curriculum Vita

### PROFESSIONAL EXPERIENCE

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1983 – Present Rutgers University New Brunswick, NJ  
*Professor of Statistics, Rutgers Business School-Newark and New Brunswick Campus*

- Tenured
- Research in Data Science and Nonparametric Bayesian Methods
- Faculty Fellow, Blanche and Irwin Lerner Center for the Study of Pharmaceutical Management Issues, Rutgers Business School
- Faculty Fellow, Rutgers Center for Operations Research (RUTCOR), Rutgers University
- Faculty Fellow, Center for Supply Chain Management, Rutgers Business School.
- Member Department of Management Science and Information Systems
- Member Graduate School, Rutgers—Newark
- Member Graduate School, Rutgers—New Brunswick

2015 Rutgers University New Brunswick, NJ  
*Vice-Chair, Rutgers Business School, Department of Management Science and Information Systems*

2007 – Present Rutgers University New Brunswick, NJ  
*Director, Rutgers Business School, MBA in Analytics and Information Systems*

2002 – 2007 Rutgers University New Brunswick, NJ  
*Senior Associate Dean Academic Programs, Rutgers Business School-Newark and New Brunswick Campus*

- Responsible for AACSB accreditation and operations of all academic programs covering twelve degrees including BS, MBA, EMBA, and PhD on two main, three offsite, and two international campuses serving over 3800 students
- Adopted AACSB accreditation standards (2003) by writing new vision and mission statements, and new strategic plan

- Currently implementing strategic plan and ensuring all administrative activities are consistent with the mission and strategic plan
- Implemented Assurance of Learning Standards by using or creating ETS Major Field Tests for undergraduate and MBA, new customized rubrics, primary trait analysis, and databases
- Maintained US News and World Report and Business Week rankings, by strategically managing the MBA program, in particular: 1) treating the students, business executives, alumni and recruiters as stakeholders, by survey data and learning what each stakeholder demanded, and by maintaining 80 percent placement among students seeking jobs; 2) by continuously improving the alignment of the MBA curriculum and industry.
- Emphasized industrial relevance and job opportunities for students by gaining faculty and University approval for BS MIS major with specialization in Enterprise Resource Planning; establishing MBA concentrations in supply chain management, pharmaceutical management, biotechnology commercialization, entrepreneurship, and entrepreneurial security management; and realigning MBA core curriculum.
- Increased uses of distance learning using eCollege for all the courses of the Master in Governmental Accounting and BlackBoard for both traditional and online courses in Master in Financial Accounting.
- Ensured quality administrative services by attracting professionally qualified directors or deans for MBA, International EMBA, MBA Admissions, MBA Internships, MBA Admissions, and MBA Office of Career Management, MBA Interfunctional Team Consulting, and Newark Undergraduate Programs.
- Adopted a four year college and placed emphasis on diversity resulting in growing enrollments from 600 to over 1200 students on the Newark campus.
- A current supporter for the NSHMBA - New Jersey Chapter, a member of the University Council for the New York Society of Security Analyst.
- Developed two undergraduate programs: Women's Business leadership Initiative and Rutgers Asian Language Institute-RBS Initiative.

2000 – 2002      Rutgers University      New Brunswick, NJ  
*MBA Director, Rutgers Business School*

- Responsible for full time and part time MBA program on two main and three offsite campuses serving 1500 students. Oversaw major reorganization of PT MBA curriculum.
- Commissioned an independent study of the MBA Office of Career Services, and implemented recommendations, by working with outside consultant.
- Revamped MBA Orientation to include projects in business plan writing and entrepreneurship; established monitoring system for continuous improvement.
- Established program with NJ Small Business Development to involve MBA students in writing business plans for start-up and established micro enterprise firms.

2000 Educational Testing Service Princeton, NJ  
*Visiting Research Scientist, Division of Analysis (On leave from Rutgers)*

- Developed and presented at ETS new series of seminars in Bayesian item calibration using Monte Carlo Markov Chain techniques. Series selected for two years as a workshop at national educational meeting of NCME attracting senior researchers and students searching for dissertation topics.

1985 International Labor Organization Geneva, Switzerland  
*Visiting Scientific Collaborator, Office of Statistics (On leave from Rutgers)*

- Developed informal sector classification using latent class analysis. Statistical consultant to staff economists.

1982 - 1983 Rutgers University New Brunswick, NJ  
*Visiting Lecturer of Applied Statistics and Management Science, Rutgers Business School*

1979 - 1982 Educational Testing Service Princeton, NJ  
*Research Scientist, Division of Measurement, Statistics, and Data Analysis Research*

- Performed the first empirical study of computerized adaptive testing (CAT) for the SAT. Established validity study services for GRE and GMAT. First to research statistical robustness theory for IRT. Developed a system for detecting disparities in employee performance ratings and salary increases.
- Co-Investigator of various research projects: Exceptional Testing Study of Differential Validity of the SAT for Handicapped Test Takers. Determining Differential Validity of the GMAT with Empirical Bayes. LSAT Validity Study Using Empirical Bayes.

1978 University of California Berkeley, California  
*Visiting Lecturer, Department of Statistics (On leave from Rutgers)*

- Taught statistics course. Researched use of micro-computers for educational testing. Researched non-parametric statistical methods.

1973-1978 Rutgers University New Brunswick, NJ  
*Assistant Professor, Department of Applied and Mathematical Statistics*

- Member of the Graduate School - New Brunswick.
- Instruction in quality control, sampling theory, experimental design, statistical methods for educational and library science researchers, advanced nonparametric methods, and probability. Software instruction in SPSS.
- Researched asymptotic efficiency of nonparametric methods, hypothesis testing, nonparametric methodology, function approximation, and sampling.
- Directed two dissertations.

1972 Rutgers University New Brunswick, NJ.  
*Lecturer, Department of Applied and Mathematical Statistics*

- Instruction in advanced nonparametric statistics. Research asymptotic efficiency of nonparametric methods

1969 Florida Atlantic University Boca Raton, FL  
*Statistician, Bureau of Demographic Studies*

- Developed demographic forecasts of elementary school enrollment. Established optimal locations of recreational state-wide parks in the State of Florida. Developed FORTRAN programs.

## EDUCATION

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1972 - 1973 Florida State University Tallahassee, FL  
*Doctor of Philosophy*

- Mathematical Statistics Major and Mathematics Minor.
- Thesis Title: *Asymptotic Bahadur Comparison of Rank Tests with Parametric Competitors*. Directed by Professor J. Sethuraman.
- Fellowship Award, National Defense Education Act Title IV, two years full support, tuition and stipend.

1969 - 1971 Florida State University Tallahassee, FL  
*Master of Science*

- Mathematical Statistics Major and Mathematics Minor.
- Fellowship Award, National Defense Education Act Title IV, three years full support, tuition and stipend.

1966 - 1968 Florida Atlantic University Boca Raton, FL  
*Bachelor of Science*

- Mathematics Major and Physics Minor.
- Summa cum laude.

## CONSULTING PROJECTS

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2011-Present Archer & Greiner Haddonfield, NJ  
*Expert Witness for Defendant*

- Reviewed Engineer's Report on Materials Defects.

2009-Present Stark & Stark Lawrenceville, NJ  
*Expert Witness for Plaintiff*

- Developed Statistical Designs and Calculated Sample Sizes for Engineering Testing so as to insure the results were reliable and admissible as legal evidence.
- Performed and Reported Data Analysis that calculated custom confidence intervals based on hypergeometric, negative binomial, and negative hypergeometric likelihoods.

2007-2008 Greenberg Traurig Florham Park, NJ  
*Expert Witness for Defendant*

- Appeared before Superior Court Of New Jersey Law Division - Civil Part 2 Somerset County, Honorable Allison E. Accurso, PJ. Civil.

- Judge ruled plaintiff's expert testimony and statistical analysis were inadmissible.
- 2002 American Institute of Biological Sciences Silver Spring, Maryland  
Walter Reed Army Institute of Research  
*Member of Blue-Ribbon Panel*
  - Studied impact of OPTEMPO (operational tempo) on Soldiers and Unit Readiness to include a review of the impact of OPTEMPO/PERSTEMPO (personnel tempo) performance modeling efforts.
- 2001 Educational Testing Service Princeton, NJ  
*Models for item pool assembly. MCMC Item Calibration*
- 1997-1999 United States Golf Association Far Hills, NJ  
*Multivariate Statistical Models and Data Warehousing.*
- 1996 American College Testing Program Iowa City, IA.  
*Development of Computerized Item Selection Program to Accommodate IRT Parameters and Multiple Appearance Items for the Fundamentals of Engineering Examination (FE).*
- 1995 GLDO, Prudential Insurance Company Parsippany, NJ  
*Continuance Models for Disability Insurance.*
- 1994-1996 Muhlenberg Regional Medical Center Plainfield, NJ  
*Heparin Titration Protocol. Coronary Care Unit.*
- 1994 American College Testing Program Iowa City, IA.  
*Feasibility Study for Automated Test Construction.*
- 1992 NJ State Attorney  
*Person Fit of Test Scores of Respiratory Therapists Licensure Test*
- 1990 Health Products Research Whitehorse, NJ  
*Survey Design and Data Quality System for Contact Lens Audit Panel Data.*
- 1989 United States Air Force San Antonio, TX  
*Optimal Test Design Using Combinatorial Network Algorithms for Classical Criteria for the Armed Services Vocational Aptitude Battery (ASVAB).*
- 1983 Besselaar Research Princeton, NJ  
*Clinical Trials Data Analysis for FDA Reporting.*
- 1981 College Entrance Examination Board New York, NY  
*Empirical-Based Scales for the Assessment of Writing Skill.*
- 1981 United States Air Force San Antonio, TX

*Item Response Theory Based Measurement Procedure for the Armed Services Vocational Aptitude Battery.*

1981 Consortium Libraries for Innovation New Brunswick, NJ  
*Sample Survey Designs for Libraries.*

## SCHOLARSHIP

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### ARTICLES IN REFEREED JOURNALS, BOOKS AND PROCEEDINGS

Jones, Douglas H. (2021). Data Science for Business Using R. (Book, Submitted, KDP Print)

Jones, Douglas H. & van der Linden, Wim J. (2014). Total-score and time distributions. In *Handbook of Modern Item Response Theory Volume 2: Statistical Tools*. (van der Linden, Wim J. & Hambleton, Ronald K., Eds.) Springer-Verlag New York Inc.

Jones, Douglas H. (2014). Test norming. In *Handbook of Modern Item Response Theory Volume 3: Applications*. (van der Linden, Wim J. & Hambleton, Ronald K., Eds.) Springer-Verlag New York Inc.

Jones, Douglas H. & Mendez-Mediavilla, Francis A. (2010). 'A Bayesian Method for Query Approximation,' *Journal of Applied Statistics*, 37:10, 1703-1715.

Jones, Douglas H. & Mendez-Mediavilla, Francis A. (2008). Early Detection of Rare Events for Supply Chain Security. Proceedings of the Thirty-ninth Annual Meeting of the Southwest Decision Sciences Institute, Houston, Texas. <http://www.swdsi.org/swdsi08>

Jones, Douglas H. & Mendez-Mediavilla, Francis A. (2007). A Bayesian Method for Record-Based Disclosure Control. Proceedings of the Thirty-eighth Annual Meeting of the Decision Sciences Institute, Phoenix, Arizona.

Jones, Douglas H. & Mendez-Mediavilla, Francis A. (2006). A Bayesian Method for Query Approximation. Proceeding of the Thirty-third Annual Meeting, Northeast Business & Economics Association, October 12-14, 2006, Port Jefferson, New York. Pp. 133-137.

Greyserman, Alexander; Jones, Douglas H. & Strawderman, William E. (2006). Portfolio Selection Using Hierarchical Bayesian Analysis and MCMC Methods. *Journal of Banking and Finance*. 40: 669-678. <http://dx.doi.org/10.1016/j.jbankfin.2005.04.008>

Jones, Douglas H. & Nediak, Mikhail. (2005). Optimal On-line Calibration of Testlets. In M. Berger and W.K. Wong (Ed.s), *Applied Optimal Designs*. London: John Wiley & Sons, Ltd 21-43.

Armstrong, Ronald D., Jones, Douglas H., Koppel, Nicole B. & Pashley, Peter J. (2004). Computerized Adaptive Testing With Multiple-Form Structures, *Applied Psychological Measurement*, May 2004; 28: 147 - 164.

- Jones, Douglas H., and Mendez, Francis. (2003). Strategic resource-allocation decision in pharmaceutical research and development. *Proceedings of the Northeast Decision Science Institute, March-2003*. 7pp.
- Armstrong, Ronald D., Jones, Douglas H., & Kuncze, Charles S. (1998). IRT test assembly using network-flow programming. *Applied Psychological Measurement*, **22**, 237-247.
- Armstrong, Ronald D., Jones, Douglas H., & Wang, Zhaobo. (1998). Optimization of classical reliability in test construction. *Journal of Educational and Behavioral Statistics*, **23**, 1-17.
- Jones, Douglas H., Chiang, J., & Jin, Z. (1997). Optimal designs for simultaneous item estimation. *Nonlinear Analysis, Methods & Applications*, Vol. 30: No. 7 pp. 4051-4058.
- Armstrong, Ronald D., Jones, Douglas H., Li, Xuan, & Wu, Ing-Long. (1996). A study of a network-flow algorithm and a non-correcting algorithm for test assembly. *Applied Psychological Measurement*, **20**, 89-98.
- Armstrong, Ronald D., Jones, Douglas H., & Wang, Zhaobo. (1995). Network procedures to optimize test information curves with side constraints. In K. D. Lawrence (ed.), *Volume 8, Applications of Management Science: Network Optimization Applications*. Greenwich, Conn.: JAI Press Inc., pp. 189-212.
- Jones, Douglas H. & Jin, Zhiying. (1994). Optimal sequential designs for on-line item estimation. *Psychometrika*, **59**, 57-75.
- Armstrong, Ronald D., Jones, Douglas H., & Wang, Zhaobo. (1994). Automated parallel test construction using classical test theory. *Journal of Educational Statistics*, **19**, 73-90.
- Jones, Douglas H. (1994). Book Review: *Statistical Methods, 8th Edition*, by George W. Snedecor and William G. Cochran. *Journal of Educational and Behavioral Statistics*, **19**, 3, 304-307.
- Armstrong, Ronald D. & Jones, Douglas H. (1992). Polynomial algorithms for item matching. *Applied Psychological Measurement*, **16**, 365-371.
- Armstrong, Ronald D., Jones, Douglas H., & Wu, Ing-Long. (1992). An automated procedure for test development of tests parallel to a seed test. *Psychometrika*, **57**, 256-271.
- Selzer, Martin B., Jones, Douglas H., & Lucken, Jack. (1990). Heteroskedasticity in validation of personnel selection models. *Proceedings of the American Statistical Association Annual Meeting*, 202-208.
- Adam, Nabil, & Jones, Douglas H. (1989). Security of statistical databases with an output perturbation technique. *Journal of Management Information Systems*, **6**, 101-110.
- Adam, Nabil, & Jones, Douglas H. (1989). Disclosure avoidance using the bootstrap and other resampling schemes. *Proceedings of the Fifth Annual Research Conference, March 19-22, 1989*, Bureau of Census Department of Commerce, Washington, DC, 446-455. (Among 39 selected from 94 submitted.)

- Jones, Douglas H. (1987). Diagnosis of influential data in latent trait theory. *Proceedings the American Statistical Association Annual Meeting*, 505-508.
- Jones, Douglas H. (1982). Hierarchical clustering of nominal data. *Proceeding of the American Statistical Association Annual Meeting*, 1180-1188.
- Jones, Douglas H. (1985). Tools of robustness for item response theory. In David Weiss (ed.), *Proceedings of the 1982 Item Response Theory and Computerized Adaptive Testing Conference*. University of Minnesota, 233-243.
- Jones, Douglas H., Sacks, Jerome & Bennett, Randolph Elliot. (1985). A screening method for identifying racial overrepresentation in special education placement. *Educational Evaluation and Policy Analysis*, **7**, 19-34.
- Jones, Douglas H. & Szatrowski, Ted. (1983). On the statistical determination of content validity. *Educational and Psychological Measurement*, **43**, 995-1004.
- Braun, Henry I., Rubin, Donald B., Jones, Douglas H., & Thayer, Dorothy T. (1983). Empirical Bayes estimation of coefficients in the general linear model from data of deficient rank. *Psychometrika*, **48**, 171-181.
- Jones, Douglas H. (1985). Multidimensional latent traits and plausible assumptions of cognitive psychology. In David Weiss (ed.), *Proceedings of The 1982 Item Response Theory and Computerized Adaptive Testing Conference*, University of Minnesota., 317-321.
- Braun, Henry I. & Jones, Douglas H. (1985). *Use of empirical Bayes methods in the study of the validity of academic predictors of graduate school performance*. GRE Board Professional Report GREB No. 79-13p, ETS Research Report 84-34
- Jones, Douglas H., Wainer, Howard, & Kaplan, Bruce. (1984). *Estimating ability with three item response models when the models are wrong and their parameters are inaccurate*. ETS Research Report 84-40, Educational Testing Service, 25 pp.
- Jones, Douglas H. (1984). *Correcting bias of Bayes-robust ability estimators*. ETS Research Report RR-84-42, Educational Testing Service, 10 pp.
- Jones, Douglas H. (1984). *Asymptotic properties of the robustified jackknife estimator (of latent ability)*. ETS Research Report RR-84-41, Educational Testing Service, 12 pp.
- Jones, Douglas H. & Sacks, Jerome & Bennett, Randolph Elliot. (1983). *A statistical method for identifying bias in special education placement*. ETS Research Report RR-83-42, Educational Testing Service, 35 pp.
- Kreitzberg, Charles & Jones, Douglas H. (1982). Monograph: *An empirical evaluation of the broad range tailored test*. ETS Research Report RR-80-5, Educational Testing Service, 1980, 232pp.
- Jones, Douglas H. (1982). *Re-descending M-type estimators of latent ability*. ETS Research Report 82-15, Educational Testing Service, 16 pp.



- Jones, Douglas H. (1982). Comment on David Kaye, Statistical evidence of discrimination. *Journal of the American Statistical Association*, **76**, 787-788. (Invited Papers Section)
- Jones, Douglas H. & Ragosta, Marjorie. (1982). Predictive validity of the SAT on two handicapped groups: The deaf and the learning disabled. ETS Research Report RR-82-9, Educational Testing Service, 1982, 55 pp.
- Braun, Henry I. & Jones, Douglas H. (1982). Unbiased predictions in sparse data problems. ETS Research Report RR-82-7, Educational Testing Service, 11 pp.
- Jones, Douglas H. (1982). On the adequacy of latent trait models. ETS Research Report 80-8, Educational Testing Service, 6 pp.
- Braun, Henry I. & Jones, Douglas H. (1981). The graduate management admission test prediction bias study. GMAC Research Report No. 81-4, ETS Research Report RR-81-25, Educational Testing Service, 65 pp.
- Jones, Douglas H. (1981). Foundations for the mathematical notion of information in item response theory and robust ability estimation. Twenty-Third Annual Conferences of the Military Testing Association, 11, 1314-1323.
- Braun, Henry I., & Jones, Douglas H. (1981). Unbiased predictions in sparse data problems. Twenty-Third Annual Conference of the Military Testing Association, 11, 201-210.
- Jones, Douglas H. (1980). Speakeasy, Statistics and Edunet. Educom Newsletter, 5-6.
- Jones, Douglas H. (1979). An efficient adaptive distribution-free test for location. *Journal of the American Statistical Association*, **74**, 822-828.
- Berk, Robert H. & Jones, Douglas H. (1979). Goodness-of-fit test statistics that dominate the Kolmogorov statistics. *Probability Theory and Related Fields*, Volume 47, Number 1 / January, 1979 (*Z. Wahrscheinlichkeitstheorie Verw. Gebiete*, **47**, 47-59).
- Berk, Robert H. & Jones, Douglas H. (1978). Relatively optimal combination of test statistics. *Scandinavian Journal of Statistics*, **5**, 158-162.
- Jones, Douglas H. (1978). Limiting Pitman efficient combinations of test statistics. *Scandinavian Journal of Statistics*, **5**, 209-212.
- Jones, Douglas H. & Sethuraman, Jayaram. (1978). Bahadur efficiencies of the Student's t-tests. *Annals of Statistics*, **6**(30), 559-566.
- Jones, Douglas H. (1978). Comments on The National Inventory of Library Needs. *Library Journal*, 103(11), 1147.
- Jones, Douglas H. (1977). A one-sample adaptive distribution-free test with a stable power function. *Communications in Statistics: Theory and Methods*, A **6**(9), 869-877.

Jones, Douglas H. (1976). The L2-norm of the approximation error for Bernstein polynomials. *Journal of Approximation Theory*, **18**, 307-315.

Jones, Douglas H. & Coppersmith, Lewis. (1976). A ratio estimator of the total of a subpopulation. *Communications in Statistics: Theory and Methods*, A5(3), 251- 260.

Jones, Douglas H. & Sethuraman, Jayaram. (1974). A strong justification for the use of rank tests in the case of non-normality. Proceedings of The Nineteenth Conference on The Design of Experiments in Army Research Development and Testing, ARO 74-1, 471-479.

Jones, Douglas H. (1969). Future park locations in the State of Florida. *Florida Planning and Development*, 20(8), 1-14. (Featured in Tampa Tribune article.)

#### PRESENTATIONS

Jones, D.H., (2021). My Life with Professor Arthur Cohen, Esteemed Mathematical Statistician. Presented to Memorial, Department of Statistics, Rutgers University, September, 2021.

Jones, D.H., (2019). Review of Bayesian Nonparametric Estimation in Educational Testing. Presented to Department of Statistics, Florida State University, Tallahassee, FL., March 2019.

Jones, D.H., (2013). Bayesian Nonparametric Estimation. Presented to INFORMS Annual Meeting Minneapolis, MN, November, 2013.

Jones, D.H., (2013). Bayesian Nonparametric Estimation. Presented to College of Science, Arizona State University, Tempe, Arizona, March, 2013.

Jones, D.H., and Cors-Lozada, M. A. (2012). Bayesian Updating of Norm Tables II. Presented to CTB/McGraw-Hill, Monterrey, CA, October 2012.

Jones, D.H. (2011). Bayesian Updating of Norm Tables and Optimal Design. Presented to Sixth Rutgers-Stevens Workshop Optimization of Stochastic Systems, Stevens Institute of Technology, Hoboken, New Jersey, November 2011.

Jones, D.H., and Cors-Lozada, M. A. (2011). Bayesian Updating of Norm Tables and Optimal Design. Presented to CTB/McGraw-Hill, Monterrey, CA, October 2011.

Jones, D.H., and Mendez, F. (2003). Strategic Resource-Allocation Decision in Pharmaceutical Research and Development. Presented to the Northeast Decision Science Institute, March-2003

Jones, D.H. (2002) Monte Carlo Markov Chains: A Primer. Featured workshop at the Annual Meeting of the American Educational Research Association, New Orleans, LA, April-2002

Jones, D.H. (2001) Monte Carlo Markov Chains: A Primer. Featured workshop at the American Educational Research Association, Seattle, WA, April-2001.

Jones, D.H. (1999). Recent Advances in Optimal Test Assembly, Presented to 11th European Meeting of the Psychometric Society, Lueneburg, Germany, July 19-22, 1999.

Jones, D.H. (1998). Optimal Item Calibration in the 3PL Model, Presented to the Psychometrics Society, University of Illinois, June-1998.

Armstrong, R.D., Jones, D.H., and Cordova, M.J. (1997). Mathematical programming approaches to computerized adaptive testing, Presented to the American Educational Research Association, Chicago, Illinois, March-1997.

Jones, D.H., Chiang, J., & Jin, Z. (1997). Optimal designs for simultaneous item estimation. Presented to the Second World Conference on Nonlinear Analysis, Methods & Applications, Athens, Greece, July-1995.

Jones, D.H. (1996). Recent Advances in Optimal Item Calibration, Presented to the Psychometrics Society, Banff, Calgary, Canada, June-1997.

Jones, D.H. (1995) Recent Advances in Optimal Item Calibration, Invited Presentation to 9th European Meeting of the Psychometric Society, Leiden University, The Netherlands, July 4, 1995.

Jones, D.H. (1995). Hierarchical Bayes Models in Financial Portfolio Theory, Presented to the Third World Bayesian Society, Oaxaca, Mexico, October-1995.

#### ORGANIZED CONFERENCES AND SYMPOSIA

April 2002. *MCMC Item Calibration A Primer*, 2002 Annual Meeting, National Council on Measurement in Education, New Orleans, LA.

April 2001. *MCMC Item Calibration A Primer*, 2001 Annual Meeting, National Council on Measurement in Education, Seattle, WA.

July 1999. *Automated Test Assembly: An Emerging Technology*, Symposium, 11th European Meeting of the Psychometric Society, Lueneburg, Germany

June 1994. *Eight Annual Conference of Making Statistics More Effective in Schools of Business*, Rutgers University, New Brunswick, NJ

#### RESEARCH GRANTS AND CONTRACTS

2011-2012      CTB/McGraw-Hill      Monterrey, CA  
Principal Investigator

- *Bayesian Updating of Norm Tables and Optimal Designs*. \$220,000. Provided full one-year support with summer stipend for two graduate students.

1996-2000      Law School Admissions Council      Newtown, PA  
Co-Principal Investigator

- *Incorporating Network-Flow Mathematical Programming to Create a LSAC B-CAT System.* With Ronald Armstrong. \$240,000. Provided full two-year support for one graduate student, plus three-time summer support for three graduate students.

1996 Rutgers Dialogues Grant Rutgers University  
*Co-Principal Investigator*

- Developing a new SOM Course: "Scientific Inquiry in Business Research." With Barbara Stern. \$4,000

1983-1990 Office of Naval Research Arlington, VA  
*Principal Investigator*

- *Optimal Designs for On-Line Calibration of Item Response Theory Models.* NR 4428007-01/2-4-87 NR 4428007-02/6-1-88 1987 NR 4428007-03/9-7-88 Cognitive Science Program, Contract No. N00014-87-C-0696. \$180,000
- *Robustness Theory for Item Response Theory,* NR 150-522/5-27-83(440) Personnel Technology, Contract No. N0014-83-C-0627. \$240,000

1981 Graduate Record Research Council Princeton, NJ  
*Co-Principal Investigator*

- *Feasibility of Empirical Bayes Methodology for the Graduate Record Exam.* \$100,000.

1981 ETS Research Council Princeton, NJ  
*Principal Investigator*

- *Statistical Inference in Complex Sample Surveys.* \$40,000.

1980 Graduate Management Admissions Council Princeton, NJ  
*Co-Principal Investigator*

- *Empirical Bayes Methodology for the Graduate Management Admissions Test.* With H. Braun and D. Rubin. \$120,000.

1979 Law School Admissions Council Princeton, NJ  
*Co-Principal Investigator*

- *Prototype Validity Study Service.* With D. Rubin. \$60,000.

1979 Department of Education Washington, DC  
*Co-Principal Investigator*

- *Ordered Categorical Data Modeling.* With P. Holland. \$50,000.

MANUSCRIPTS IN PREPARATION OR SUBMITTED TO REFEREED JOURNALS

Jones, D. T. & Jones, D. H. (2012) *On Computational Advertising*

Jones, D.H. & Cors-Lozada, M. A. (2012) *On the Observed Score Distribution*

Jones, D.H. & Cors-Lozada, M. A. (2012) *Bayesian Updating of Test Norms*

Englander, F., Wang, Z. & Jones, D.H. (2011) *Consistency of Procrastination Behavior*

## DISSERTATIONS SUPERVISED

Marco A. Cors-Lozada (Ph.D. 2013) Rutgers Business School and The Graduate School-Newark, Rutgers University. *Bayesian Updating of Norm Tables and Optimal Design*.

Francis Mendez (Ph.D. 2005). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Updating Algorithms for Data warehouses*.

Nicole Berliner (Ph.D. 2000). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Curve Fitting with Applications to Optimal Test Assembly*. Co-directed with R. D. Armstrong

Mario Cordova. Ph.D. (1997). RUTCOR and The Graduate School-New Brunswick, Rutgers University. *Computerized Adaptive Testing*. Co-directed with R. Armstrong.

Jimmy Chiang, Ph.D. (1996). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Optimal Experimental Designs for Item Calibrations*.

Xuan Li, Ph.D. (1996). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Optimization Methods in Computerized Adaptive Testing*. Co-directed with R. Armstrong.

Alexander Greyserman, Ph.D. (1996). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Empirical Bayes Methodology in Optimal Financial Portfolios*.

Dimitrios Katsibekis, Ph.D. (1993). Rutgers Business School and The Graduate School-Newark, Rutgers University *Mergers & Acquisitions: Market Efficiency in the Presence of "Informed Outsider" Trading*. Co-directed with David Witcomb.

Zhaobo Wang, Ph.D. (1992). Rutgers Business School and The Graduate School-Newark, Rutgers University. *The Generation of Standardized Tests Using Integer Programming*.

Ing-Long Wu, Ph.D. (1992). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Automated Test Development*.

Martin Selzer, Ph.D. (1992). Rutgers Business School and The Graduate School-Newark, Rutgers University. *Modeling Heteroscedasticity Using Quasi-Likelihood and Ordinary Least Squares Residuals with Applications to Personnel Selection Models*.

Yuchung Wang, Ph.D. (1980). Department of Statistics, Rutgers University. *Log-Linear Models for Partially Ordered Data*.

## THESIS COMMITTEE

Tim Coville, (Ph.D. 2009). Rutgers Business School, Graduate School - Newark, Rutgers University. Directed by Dan Palmon.

Lorraine Scudieri, (Ph.D. 2000). Permuted batch means variance estimation. NJ Institute of Technology. Directed by M. Nakayama.

Christopher Maxwell, Ph.D. (1998). Graduate School of Criminal Justice – Newark, Rutgers University.

Zhiying Jin, Ph.D. (1994). Rutgers Business School, Graduate School - Newark, Rutgers University. Directed by Ronald Armstrong.

Gary Kleinman, Ph.D. (1991). Rutgers Business School, Graduate School - Newark, Rutgers University.

Christine Murchio, Ph.D. (1991). Graduate School of Library Information and Science, Rutgers University.

Jassim Jirgees, Ph.D. (1979). School of Library Science, Graduate School - New Brunswick, Rutgers University.

Rich Schmidt, Ph.D. (1984.) Rutgers Business School, Graduate School - Newark, Rutgers University.

René Cadero, Ph.D. (1984.) Rutgers Business School, Graduate School - Newark, Rutgers University. Directed by George Farris.

Charles McClure, Ph.D. (1975). School of Library Science, Graduate School - New Brunswick, Rutgers University.

#### AWARDS RECEIVED

2001	FASP* Award	Rutgers University
2000	FASP Award	Rutgers University
1999	FASP Award	Rutgers University
1998	FASP Award	Rutgers University
1995	FASIP† Merit Award	Rutgers University
1994	FASIP Merit Award	Rutgers University
1993	FASIP Merit Award	Rutgers University
1992	FASIP Merit Award	Rutgers University
1987	FASIP Merit Award	Rutgers University
1987	FASP Award	Rutgers University
1987	Omicron Delta Kappa	Rutgers University

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\* Faculty Academic Study Program

† Faculty Academic Service Increment Program

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| 1986      | FASIP Merit Award                                | Rutgers University                     |
| 1984      | FASP Award                                       | Rutgers University                     |
| 1976      | Fellowship                                       | National Science Foundation            |
| ■         | Summer Regional Conference on Robustness Theory, | Iowa State University                  |
| 1976      | Fellowship                                       | National Science Foundation            |
| ■         | Industrial Academic Cooperative Program,         | Educational Testing Service            |
| 1972      | Phi Delta Kappa                                  |  |
| 1972      | Phi Kappa Phi                                    |  |
| 1968-1971 | Fellowship                                       | Florida State University               |
| ■         | National Defense Education Act Title IV,         | full tuition and stipend, non-teaching |
| 1968      | Summa cum Laude (BS)                             | Florida Atlantic University            |
| 1966      | Sigma Epsilon Mu                                 |  |

## PROFESSIONAL MEMBERSHIPS

- |      |   |
|------|---|
| 2004 | American Society for Quality                        |
| 2001 | National Council on Measurement in Education        |
| 1993 | Psychometrics Society                               |
| 1981 | Phi Delta Kappa                                     |
| 1980 | American Association for the Advancement of Science |
| 1972 | Phi Kappa Phi                                       |
| 1972 | Sigma Xi (Associate Member)                         |
| 1970 | American Statistical Association                    |
| 1970 | Institute of Mathematical Statistics                |

**SERVICE**

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## EDITORSHIPS AND REFERREE SERVICE

2005	British Journal of Mathematical and Statistical Psychology
1993	Associate Editor, Journal of Statistical Computation and Simulation
1992-ongoing	Referee, Applied Psychological Measurement
1982-ongoing	Referee, Journal of Educational Statistics
1980-ongoing	Referee, Psychometrika
1973-ongoing	Referee, The American Statistician
1973-ongoing	Referee, Journal of the American Statistical Association
1994-1993	Chair, Planning Committee for Making Statistics More Effective in Schools of Business
1993	Editorial Advisory Board JAI Press Inc.
1978-ongoing	Reviewer, Mathematical Reviews
1971-ongoing	Referee, Annals of Mathematical Statistics
1993-1992	Arrangements Committee, Institute of Mathematical Statistics, Eastern Regional Meeting

## SERVICE TO THE STATE OF NJ

2005 – 2004	Treasury Department, State of NJ	Trenton, NJ
2003 – 2002	Treasury Department, State of NJ	Trenton, NJ
1992 – 1993	Attorney General, State of NJ	Newark, NJ
	<ul style="list-style-type: none"> <li>▪ Implemented Angoff's Index B for the Certification Examination for Entry Level Respiratory Therapy Practitioners (CRRT). This report provided statistical probabilities of cheating on the certification examination, which was subsequently used by the Attorney general to rescind the certification of sixteen individuals.</li> </ul>	

## SERVICE TO RUTGERS UNIVERSITY

2015 – Rutgers Business School

*Member*

- Teaching and Innovations Committee

2013 Rutgers University – Newark Campus

- Promotion Review Committee (Ad Hoc)



2009 – Present Rutgers Business School

*Member*

- RBS Assurance of Learning Ad Hoc Faculty Committee

2008 – Present Rutgers Business School

*Member*

- AACSB Advisory Committee

2003 Rutgers Business School

Newark Campus

*Grant Writer*

- Wrote \$72 million grant to establish an Institute of Biotech Entrepreneurship and Pharmaceutical Management.

1998 - 1999 Office of the Provost

Newark Campus

*Grievance Committee*

1998 - 1999 Office of the Dean

Rutgers Business School

*Statistical Consultant*

- An on-going series of survey sampling projects jointly that are conducted by the Rutgers Business School and the NJ State Chamber of Commerce and sponsored by Author Anderson. The first survey, focusing on the work readiness of high school graduates, released February 1998, received wide coverage in NJ newspapers and public television. The second survey, focused on the work ethic of the “Generation X” cohort, released June 1998.

1993 - 2015 MBA Policy Committee

Rutgers Business School

*Chair and/or member*

- The committee brought several important policy proposals before the faculty for vote; a majority of them became the current policy for the Rutgers Business School. The committee achieved MBA credit for two courses previously non-credit, Statistics for Managers and Calculus for Managers, changed prerequisites and eliminated great student dissatisfaction with the MBA program. The committee obtained faculty approval for off-campus expansion of the MBA in Somerset and Plainsboro.

1994 - 1996 Special Peer Review Committee

Rutgers Business School

*Member*

1993 - 1995 Undergraduate Curriculum Committee

Rutgers Business School

*Member*

- The committee created the curriculum that is currently in use in the Rutgers Business School - Newark Campus.

1993 - 1994 Faculty Search Committee

Department of MSCIS

*Member*

1993 - 1994 Faculty Grievance Pool

Newark Campus

*Member*

1994 Workload Committee Rutgers Business School

*Member*

1993-1992 Ph.D. Policy Committee Graduate School

*Member*

1993-1992 MBA Policy Committee Rutgers Business School

*Member*

1993-1992 Executive MBA Policy Committee Graduate School of Management

*Member*

1988-1987 FASP Review Committee Newark Campus

*Member*

1987-1986 MBA Policy Committee Rutgers Business School

*Member*

1985-1984 Planning Committee Rutgers Business School

*Member*

1976-1975 Scholastic Standing Committee Rutgers University

*Member*

## SERVICE TO COMMUNITY

1994-1999 Troop 36 Toms River, NJ

*Assistant Scout Master*

- Troop advancement records. Numerous scouts advanced to Eagle class.

1992-1994 Pack 36 Toms River, NJ

*Webeles Scout Leader*

- All cub scouts advanced to the Arrow of Light.

1968-1971 FSU and FAMU Karate Clubs Tallahassee, FL

*Founder and Instructor*

- Maintained club membership at well over 100 students. Numerous students advanced to the rank of *SANKYU* in the Japan Karate Association. Hosted numerous clinics with visiting Japanese *SENSEI*, fourth *DAN* and higher, from Fort Lauderdale, Philadelphia and New York.

**TEACHING**

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## PHD QUALIFYING EXAMINATION

1990 - Present Wrote and scored separate exams in Statistics and Probability PHD

## COURSE TEACHING

2009-Present Data Mining and Business Intelligence (3 cr.) MBA

- Conceived course. Developed syllabus and online lecture notes. Selected book and software.

2003-2005 Supply Chain Logistics (3 cr.) MBA

1996-Present Data Analysis and Decision Making (3 cr.) MBA

1988-Present Introduction to Statistical Linear Models (3 cr.) PHD

1999 Decision Making under Uncertainty (1 cr.) MBA

1998-1999 Advanced Statistics (2 cr.) MBA

1996 Management Information Systems (3 cr.) Undergraduate

1996 Bayesian Data Analysis (3 cr.) PHD

1990-1999 Statistical Models (3 cr.) MBA

1993-1994 Categorical Data Analysis (3 cr.) PHD

## COURSE DEVELOPMENT

1999 Decision Making under Uncertainty (1 cr.) MBA (day)

1998 Data Mining (3 cr.) MBA

- Conceived course idea, developed syllabus. Selected book and software.

1995-1998 Online Lectures Web Site

- <http://www.rci.rutgers.edu/~dhjones>

1996-1997 Advanced Statistics (2 cr.) MBA

- Conceived course idea to replace Statistical Models in day MBA section. Developed syllabus and online lecture notes (see web address nearby). Selected book and software.

1996 Bayesian Data Analysis (3 cr.) PHD

- Developed syllabus. Selected book and software.

- 1996                      Research Methods (3 cr.)                      Undergraduate-Newark
- Conceived course idea to replace old Quantitative Methods. Obtained Rutgers Dialogues Grant with colleagues entitled: Developing a new SOM Course: “Scientific Inquiry in Business Research.” The course integrates mathematical, computational, and communication skills across the business disciplines.
- 1993                      Categorical Data Analysis                      PHD