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#### CONTACT INFORMATION

Professional Address: Division of Statistics, Northern Illinois University, DeKalb, Illinois 60115.

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#### EDUCATIONAL BACKGROUND

Ph.D. in Statistical Science: August 1995

Southern Methodist University, Dallas, Texas 75275

Dissertation: Kernel Smoothing to Improve Bootstrap Confidence Intervals

Advisor: Professor William R. Schucany

Master of Science in Mathematics: December, 1991

The University of Texas at San Antonio, San Antonio, Texas 78249

Concentration: Statistics

Thesis: Hypothesis Testing and Uniformly Minimum Variance Unbiased Estimators of Process Capability Indices

Advisor: Professor Youn-Min Chou

Bachelor of Science: May, 1990

The University of Texas at San Antonio, San Antonio, Texas 78249

Concentration: Statistics

Magna Cum Laude

#### PROFESSIONAL EXPERIENCE

Northern Illinois University (De Kalb, IL)

Division of Statistics

Associate Professor: August 2001–Present

Assistant Professor: August 1995–August 2001

Interim Division Director: June 2016–July 2017. Director of Graduate and Undergraduate Studies: July 2001–July 2003, July 2008–July 2010, July 2014–July 2018.

Southern Methodist University (Dallas, TX)

Department of Statistical Science

Instructor: Spring 1995, Summer 1994

Taught undergraduate business and engineering statistics courses.

Texas Transportation Institute (Dallas, TX)

The Texas A&M University System

Data Manager and Analyst: Summer 1993

Duties included data management and simple analysis of large datasets.

Cuplex Incorporated (Garland, TX)

Instructor: Summer 1993

Taught a course on Statistical Process Control. Cuplex was in the process of obtaining ISO certification which required training employees of all levels in the philosophy and techniques of basic statistical process control.

The University of Texas at San Antonio (San Antonio, TX)

Division of Mathematics, Computer Science and Statistics

Instructor: Spring-Summer 1992

Taught undergraduate courses in mathematical statistics and business statistics.

The University of Texas Health Science Center at San Antonio (San Antonio, TX)

Department of Community Dentistry

Data Manager: January-August 1992 and January 1993

The department was a participant in the International Collaborative Study II sponsored by the World Health Organization. Performed data management, basic statistical analysis, consultation on statistical questions and Pascal programming.

#### PROFESSIONAL AFFILIATIONS

American Society for Quality (Senior Member)

American Statistical Association

The International Association for Statistical Computing

Co-Founder of the Section on Nonparametric Statistics of the American Statistical Association.

#### CONSULTING

De Kalb Genetics (Now a part of the Monsanto Corporation)

Center for Governmental Studies, Northern Illinois University

Faculty in the College of Education, Northern Illinois University

Faculty in the School of Nursing and Health Studies, Northern Illinois University

Faculty in the Department of Geology, Northern Illinois University

#### EDITORIAL WORK

Associate Editor, Quality Technology and Quantitative Management. 2007 - present.

Associate Editor, Quality and Reliability Engineering International. 2006 - present.

Associate Editor, Missouri Journal of Mathematical Sciences. 2017-present.

Member of Editorial Board, ASA-SIAM Series on Statistics and Applied Probability. 2001.

Co-Guest Editor, Journal of Statistical Planning and Inference Special Issue on papers presented at the Fourth Biennial International Conference on Statistics, Probability and Related Areas held at Northern Illinois University, June 14-16, 2002.

#### REFEREE WORK

Australian Journal of Statistics

Arabian Journal for Science and Engineering  
Communications in Statistics  
Computational Statistics and Data Analysis  
Computers and Industrial Engineering  
Don Owen Memorial Volume, Marcell-Dekker, Inc.  
European Journal of Operations Research  
IIE Transactions  
Journal of Agricultural, Biological and Environmental Statistics  
Journal of the American Statistical Association  
Journal of Manufacturing Systems  
Journal of Nonparametric Statistics  
Journal of Statistical Computation and Simulation  
Journal of Statistical Planning and Inference  
Journal of Probability and Statistics  
Journal of Quality Technology  
Lifetime Data Analysis  
Physica-A Statistical Mechanics and its Applications  
Quality and Reliability Engineering International  
Quality Technology and Quantitative Management  
Statistics and Probability Letters  
Technometrics  
The American Statistician  
Reviewer for Mathematical Reviews

#### GRANTS AWARDED

National Science Foundation, SCREMS Grant, Number DMS 970 7721. Dates: 6/1/1997 - 6/1/1998. Topic: Performance of Bootstrap Confidence Intervals and Tests. Principal Investigator: Dr. Mohsen Pourahmadi.

Graduate School, Internal Summer Grant. Northern Illinois University. Dates: 5/16/2000-6/15/2000. Topic: Data Based Bandwidth Selection for the Smoothed Bootstrap.

Graduate School, Internal Summer Grant. Northern Illinois University. Dates: 7/16/1996 - 8/15/1996. Topic: Tests for trends in environmental compliance.

## PUBLICATIONS

## BOOKS

1. Polansky, A. M. (2007). *Observed Confidence Levels: Theory and Application*. CRC/Chapman and Hall.
2. Polansky, A. M. (2010). *Introduction to Statistical Limit Theory*. CRC/Chapman and Hall.

## REFEREED PUBLICATIONS

1. Chou, Y.-M. and Polansky, A. M. (1993). Power of tests of some process capability indices. *Communications in Statistics, Series B: Simulation and Computation*, **22**, 523–544.
2. Polansky, A. M. and Schucany, W. R. (1997). Kernel smoothing to improve bootstrap confidence intervals. *Journal of the Royal Statistical Society, Series B*, **59**, 821–838.
3. Polansky, A. M. (1997). Inexact control variates for the iterated bootstrap. *Journal of Statistical Computation and Simulation*, **59**, 83–99.
4. Guerra, R., Polansky, A. M. and Schucany, W. R. (1997). Smoothed bootstrap confidence intervals with discrete data. *Computational Statistics and Data Analysis*, **26**, 163–176.
5. Chou, Y.-M., Polansky, A. M., and Mason, R. L. (1998). Transforming non-normal data to normality in statistical process control. *Journal of Quality Technology*, **30**, 133–141.
6. Polansky, A. M. (1998). A smooth nonparametric approach to process capability. *Quality and Reliability Engineering International*, **14**, 43–48.
7. Polansky, A. M., Chou, Y.-M. and Mason R. L. (1998). Estimating process capability indices for truncated distributions. *Quality Engineering*, **11**, 257–265.
8. Polansky, A. M. (1999). Upper bounds on the true coverage of bootstrap percentile type confidence intervals. *American Statistician*, **53**, 362–369.
9. Polansky, A. M., Chou, Y.-M., and Mason, R. L. (1999). An algorithm for fitting Johnson transformations to non-normal data. *Journal of Quality Technology*, **31**, 345–350.
10. Polansky, A. M. (2000). An algorithm for computing a smooth nonparametric process capability estimate. *Journal of Quality Technology*, **32**, 284–289.
11. Polansky, A. M. (2000). Stabilizing bootstrap-t confidence intervals for small samples. *Canadian Journal of Statistics*, **28**, 501–516.
12. Polansky, A. M. and Baker E. R. (2000). Multistage plug-in bandwidth selection for kernel distribution function estimates. *Journal of Statistical Computation and Simulation*, **65**, 63–80.
13. Polansky, A. M. (2000). A smooth nonparametric approach to multivariate process capability. *Technometrics*, **43**, 199–211.

14. Polansky, A. M. (2001). Bandwidth selection for the smoothed bootstrap percentile method. *Computational Statistics and Data Analysis*, **36**, 333–349.
15. Polansky, A. M. and Check, C. E. (2001). Tests for trends in environmental compliance. *Journal of Agricultural, Biological and Environmental Statistics*, **7**, 452–468.
16. Polansky, A. M. and Kirmani, S. N. U. A. (2002). Quantifying the capability of industrial processes. *Handbook of Statistics: Statistics in Industry*, Vol 22, 625–656.
17. Polansky, A. M. (2003). Supplier selection based on bootstrap confidence regions of process capability indices. *Reliability, Quality and Safety Engineering*, **10**, 1–14.
18. Polansky, A. M. (2003). Selecting the best treatment in designed experiments. *Statistics in Medicine*, **22**, 3461–3471.
19. Polansky, A. M. (2005). A general framework for constructing control charts. *Quality and Reliability Engineering International*, **21**, 633–653.
20. Polansky, A. M. (2005). Nonparametric estimation of distribution functions of non-standard mixtures. *Communications in Statistics - Theory and Methods*, **34**, 1711–1724.
21. Polansky, A. M. (2006). Permutation methods for comparing process capabilities. *Journal of Quality Technology*, **38**, 254–266.
22. Polansky, A. M. (2007). Detecting change-points in Markov chains. *Computational Statistics and Data Analysis*, **51**, 6013–6026.
23. Polansky, A. M. (2007). Nonparametric process capability indices. *Encyclopedia of Statistics in Quality and Reliability*, Volume III, 1462–1466.
24. Chou, Y.-M. and Polansky, A. M. (2007). Process capability indices for non-normal distributions. *Encyclopedia of Statistics in Quality and Reliability*, Volume III, 1459–1462.
25. Polansky, A. M. (2007). Sampling from virtual populations. *Encyclopedia of Statistics in Quality and Reliability*, Volume IV, 1715–1719.
26. Kirmani, S. N. U. A. and Polansky, A. M. (2009). Multivariate process capability via Löwner ordering. *Linear Algebra and Its Applications*, **430**, 2681–2689.
27. Frobish, D., Ebrahimi, N. and Polansky, A. M. (2009). Parametric estimation of change-points for panel count data in recurrent events models. *Journal of Statistics and Applications*, **4**, 45–66.
28. Polansky, A. M. (2009). Using the smoothed bootstrap for statistical inference for Markov chains. *The Pakistani Journal of Statistics*, **25**, 553–570.
29. Polansky, A. M. (2010). Ordered inference using observed confidence levels. *Computational Statistics and Data Analysis*, **54**, 233–244.
30. Polansky, A. M. (2014). Assessing the capability of a manufacturing process using nonparametric Bayesian density estimation. *Journal of Quality Technology*, **46**, 150–170.
31. Ghosh, S. and Polansky, A. M. (2014). Smoothed and iterated bootstrap confidence regions for parameter vectors. *Journal of Multivariate Analysis*, **132**, 171–182.

32. Polansky, A. M. and Ghosh, S. (2016). Using observed confidence levels to perform principal component analyses. *Communications in Statistics Series A: Theory and Methods*, **45**, 3596–3611.
33. Polansky, A. M. and Maple, A. (2014). Using Bayesian models to assess the capability of a manufacturing process in the presence of unobserved assignable causes. *Quality Technology and Quantitative Management*, **13**, 139–164.
34. Ghosh, S. and Polansky, A. M. (2016). New bootstrap confidence intervals for means of positively skewed distributions. *Communications in Statistics Series A: Theory and Methods*, **45**, 6915–6927.
35. Akakpo, R. M., Xia, M. and Polansky, A. M. (2019). Frequentist inference in insurance ratemaking models adjusting for misrepresentation. *ASTIN Bulletin - The Journal of the International Actuarial Association*. to appear.

#### CONSULTING PUBLICATIONS

1. Fischer, M. P. and Polansky A. M. (2006). Influence of flaws in joint spacing and saturation: Results of one-dimensional mechanical modeling. *Journal of Geophysical Research*, **111**, B07403.

#### PROCEEDINGS PUBLICATIONS

1. Chou, Y.-M. and Polansky, A. M. (1996). Fitting SPC data using a sample quantile ratio. *ASA Proceedings of the Section on Quality and Productivity*, 9-16. American Statistical Association, Alexandria, Virginia.

#### SUBMITTED MANUSCRIPTS

1. Polansky, A. M. (2012). Fitting a piecewise exponential model for the reliability of repairable systems using Bayesian isotonic regression.
2. Polansky, A. M. and Maple, A. (2013). Using Bayesian hierarchical models to assess the capability of a manufacturing process.

#### MANUSCRIPTS UNDER PREPARATION

1. Polansky, A. M. and Ghosh, S. Using network motif structures in resampling algorithms for network graphs.
2. Polansky, A. M. and Fischer, M. P. Assessing spatial variation in fault orientations using mixtures of circular distributions.

#### INVITED TALKS

1. Power of Tests of Process Capability Indices, Southern Methodist University, Department of Statistical Science, March, 1993.
2. Asymptotics of the Bootstrap, Southern Methodist University, Department of Statistical Science, April, 1994.
3. Bootstrap Methods for Discrete Data, Southern Methodist University, Department of Statistical Science, September, 1994.
4. Kernel Smoothing to Improve Bootstrap Confidence Intervals, Southern Methodist University, Department of Statistical Science, February 7, 1995. Invited Talks Continued

5. Kernel Smoothing to Improve Bootstrap Confidence Intervals, American University, February 25, 1995.
6. Kernel Smoothing to Improve Bootstrap Confidence Intervals, University of Montana at Missoula, April 1, 1995.
7. Kernel Smoothing to Improve Bootstrap Confidence Intervals, Northern Illinois University, Division of Statistics, April 18, 1995.
8. Kernel Smoothing to Improve Bootstrap Confidence Intervals, Portland State University, April 26, 1995.
9. Smoothing the Bootstrap, Northern Illinois University, Division of Statistics, January, 1996.
10. Kernel Smoothing to Improve Bootstrap Confidence Intervals, Invited Colloquium Talk, The University of Texas at San Antonio, Division of Mathematics and Statistics, March, 1996.
11. Fitting SPC Data Using a Sample Quantile Ratio, Statistics for Quality: Honoring Don Owen - Invited Papers, Joint Statistical Meetings, Chicago, August 5, 1996. With Youn-Min Chou.
12. Fitting SPC Data Using a Sample Quantile Ratio, Northern Illinois University, Division of Statistics, March 7, 1997.
13. Stabilizing bootstrap-t confidence intervals, Northern Illinois University, Division of Statistics, January 23, 1998.
14. A smooth nonparametric approach to multivariate process capability, Invited Talk, International Conference on Reliability and Survival Analysis, Northern Illinois University, May 24, 1998.
15. A smooth nonparametric approach to multivariate process capability, Invited Colloquium Talk, University of Northern Iowa, Cedar Falls, Iowa, September 23, 1998.
16. Upper Bounds on the Coverage of Bootstrap Percentile Type Confidence Intervals, Invited Talk, Statistical Society of Canada Annual Meeting, Regina, Saskatchewan, June 7, 1999.
17. Density Control Charts, Invited Talk, Northern Illinois University, Division of Statistics. September 10, 1999.
18. Stabilizing Bootstrap-t Intervals for Small Samples, Invited Talk, University of Wisconsin at Madison, Department of Statistics. September 29, 1999.
19. Density Control Charts, Invited Talk, International Conference in Honor of C. R. Rao on the Occasion of His 80th Birthday. University of Texas at San Antonio. March 17, 2000.
20. Supplier Selection, Invited Talk, International Conference on Statistics in the 21st Century. The University of Maine, Orono, Maine. June 29, 2000.
21. Student: The Man Behind the Name, Invited Colloquium Talk, Northern Illinois University, Division of Statistics, February 9, 2001.

22. Optimal Treatment Selection, Invited Colloquium Talk, Indiana University Purdue University Indianapolis, Department of Mathematical Sciences, April 3, 2001.
23. Statistics: From Data to Conclusions, Invited Talk, Conference on New Ideas in Mathematics and Science. De Kalb, Illinois. September 13, 2002.
24. Optimal Treatment Selection, Invited Talk, Conference to Honor Ram Tripathi. University of Texas at San Antonio. San Antonio, Texas. October 9, 2004.
25. Observed Confidence Levels: Theory and Application, Invited Talk, Northern Illinois Chapter, American Statistical Association, Fall Meeting, October 19, 2006.
26. Observed Confidence Levels for Modes, Invited Talk, Department of Mathematics, University of Northern Iowa. April 13, 2007.
27. Control Charts and Process Capability, Invited Workshop Presentation. Department of Mathematics, University of Northern Iowa. October 20, 2007.
28. An Introduction to the Bootstrap, Invited Workshop Presentation. Abbott Laboratories. April 18, 2008.
29. Ordered Inference Using Observed Confidence Levels. Invited Talk. ASA North Texas Chapter Meeting. Dallas, Texas. November 13, 2008.
30. Observed Confidence Levels for Vector Parameters. Invited Talk. Southern Methodist University, Department of Statistical Science. Dallas, Texas. November 14, 2008.
31. Ordered Inference Using Observed Confidence Levels. Invited Talk. Department of Statistics, Iowa State University. March 9, 2010.
32. Ordered Inference Using Observed Confidence Levels. Invited Talk. Trinity University, Department of Mathematics. San Antonio, Texas. February 1, 2010.
33. Ordered Inference Using Observed Confidence Levels. Invited Talk. Conference of Resampling Methods and High Dimensional Data. Texas A&M University, College Station, Texas. March 25, 2010.
34. Avoiding a Paradox in Multiple Testing Problems. Invited Talk. Symposium in Honor of the Retirement of William R. Schucany. Southern Methodist University, Dallas, Texas. September 17, 2010.
35. "Observed Confidence Levels: An Alternative to Multiple Testing Procedures". Invited Talk. Statistical Society of Canada Annual Meeting. Acadia University, Wolfville, NS, Canada. June 13, 2011.
36. "Motif Resampling for Networks". Invited Talk. Division of Statistics, Northern Illinois University. February 28, 2014.
37. "The Bootstrap and Network Graphs". Invited Talk. Department of Statistics, Northwestern University. February 25, 2015.

#### CONTRIBUTED TALKS

1. Bandwidth Selection for the Bootstrap Percentile Method, Contributed paper, Joint Statistical Meetings, Anaheim, California, August 12, 1997.



2. A Smooth Nonparametric Approach to Multivariate Process Capability, Contributed Paper, Spring Research Conference on Statistics in Industry and Technology, St. Johns College, Santa Fe, New Mexico, June 3, 1998.
3. Stabilizing Bootstrap-t Confidence Intervals for Small Samples, Contributed Paper, Joint Statistical Meetings, Dallas, Texas, August 9, 1998.
4. Stabilizing Bootstrap-t Confidence intervals for small samples, Contributed Poster, Symposium on Selected Topics in Nonparametric Statistics, University of Florida, Gainesville, Florida, January 22, 1999.
5. Density Control Charts, Contributed Talk, Spring Research Conference on Statistics in Industry and Technology, Minneapolis, Minnesota, June 3, 1999.
6. Upper Bounds on the Coverage of Bootstrap Percentile Type Confidence Intervals, Contributed Paper Talk, Joint Statistical Meetings, Baltimore, MD, August 9, 1999.
7. Supplier Selection, Contributed Talk, Joint Statistical Meetings. Indianapolis, Indiana. August 15, 2000.
8. Using the Web to Teach Statistics, Poster and Demonstration, Showcase 2001: Technology for the New Millennium, Northern Illinois University, March 28, 2001.
9. Nonparametric Estimation of Distribution Functions of Nonstandard Mixtures, Contributed Talk, Joint Statistical Meetings. Atlanta, Georgia. August 6, 2001.
10. Supplier Selection, Contributed Talk, Spring Research Conference on Statistics in Industry and Technology. Ann Arbor, Michigan. May 22, 2002.
11. Optimal Treatment Selection, Contributed Talk, Joint Statistical Meetings. New York, New York. August 14, 2002.
12. Detecting Change Points in Markov Chains, Contributed Talk, Joint Statistical Meetings. San Francisco, California. August 5, 2003.
13. Permutation Methods for Comparing Process Capabilities, Contributed Talk, Joint Statistical Meetings, Minneapolis, Minnesota. August 8, 2005.
14. Observed Confidence Levels for Modes, Contributed Talk, Joint Statistical Meetings, Salt Lake City, Utah. July 31, 2007.
15. Ordered Inference Using Observed Confidence Levels. Contributed Poster Presentation, Joint Statistical Meetings, Denver, Colorado. August 6, 2008.

#### DOCTORAL DISSERTATIONS DIRECTED

1. Poliak, Cathy D. *Observed Confidence Levels for Regression Parameters*. Graduation Date: August 2007.
2. Ghosh, Santu. *Multivariate Smoothed Bootstrap Confidence Regions*. Graduation Date: May 2012.

#### MASTERS THESES DIRECTED

1. Baker, Edsel R. *An Analysis of the Remainder Terms of an Asymptotic Expansion of the Mean Integrated Square Error of a Kernel Distribution Function*. Graduation Date: August 1998.

2. Minhajuddin, Abu. *Coverage Estimation of Bootstrap Confidence Regions in  $\mathbb{R}^2$* . Graduation Date: December 1999.
3. Teodorescu, Iuliana. *Smoothed Bootstrapping for Finite State Space Markov Chains*. Graduation Date: August 2001.
4. Barkley, Quinton. *A Markov Chain Analysis of the Dow*. Graduation Date: August 2003.
5. Grygleski, Michael. *Distribution of Median Estimation via Semi-Parametric Normal Mixture Bootstrap*. Graduation Date: May 2009.
6. Hannah, Megan. *Measuring Process Capability for Normal Mixtures*. Graduation Date: August, 2009.
7. Das, Sulagna. *Process Capability Indices for Non-Normal Distributions*. Graduation Date: August 2009.
8. Li, Tianyu. *Measuring the Effect of Culture on Economic Growth*. Graduation Date: August 2010.
9. Reins, Robert. *Testing for Process Capability*. Graduation Date: December 2010.
10. Ochigbo, Abel. *Acceptance Sampling and Financial Audits*. Graduation Date: May 2013.
11. Maple, Adam. *Using Bayesian hierarchical models to assess the capability of a manufacturing process*. Graduation Date: May 2013.
12. Putbress, Lana. *Efficient Information Exchange in a Stochastic Environment*. Graduation Date: May 2013.
13. Gao, Peter (Teng). *The Theory of the Fused Lasso for GMM Variable Selection*. Graduation Date: August 2014.
14. Buari, Oluwatoyin. *Bayesian Analysis of a Repairable System*. Graduation Date: August 2014.
15. Petkus, James. *Issues with Testing for Modality*. Graduation Date: December 2014.
16. Whales, Richard. *Quality control charts for tool wear, a residuals approach*. Graduation Date: December 2015.
17. Akakpo, Rexford. *Value at Risk (VAR) Estimation with Extreme Mixture Model and Backtesting Diagnostics*. Graduation Date: August 2016.
18. Pramanik, Paramahansa. *Tail Non-exchangeability*. Graduation Date: August 2016. (Co-Chair)
19. Buretz, Todd. *Testing The Equality of Mean Functional Kinetic Energy Profiles of Males and Females using the Bootstrap*. Graduation Date: August 2017.
20. Jones, Robert. *Bayesian model averaging for realized volatility models*. Graduation Date: August 2018.
21. Bishop, Jessica. *Stochastic Opinion Dynamics*. Graduation Date: May 2019.

## TEACHING

## UNDERGRADUATE COURSES:

STAT 208 Basic Statistics  
STAT 301 Elementary Statistics  
STAT 350 Introduction to Probability and Statistics  
STAT 470 Introduction to Probability Theory  
STAT 472 Introduction to Mathematical Statistics  
STAT 473 Statistical Methods and Models I  
STAT 473A Statistical Computing Packages  
STAT 481 Probabilistic Foundations in Actuarial Science  
STAT 483 Stochastic Processes I  
STAT 491 Programming And Computing In Statistics

## GRADUATE COURSES:

STAT 570 Introduction to Probability Theory  
STAT 572 Introduction to Mathematical Statistics  
STAT 573 Statistical Methods and Models I  
STAT 573A Statistical Computing Packages  
STAT 581 Probabilistic Foundations of Actuarial Science  
STAT 583 Stochastic Processes I  
STAT 591 Programming and Computing In Statistics  
STAT 665 Regression Analysis  
STAT 666 Discrete Multivariate Data Analysis  
STAT 669 Methods for Quality Control and Improvement  
STAT 670 Probability Theory  
STAT 672 Theory of Statistics  
STAT 673 Linear Models  
STAT 676 Distribution-Free Statistics  
STAT 677 Sampling Techniques  
STAT 679 Advanced Statistical Methods  
STAT 775 Topics in Statistics  
STAT 785 Asymptotic Theory of Statistics  
STAT 790 Seminar in Statistics

UNIVERSITY SERVICE

General Education Committee (2015–2018), (Chair, August 1017–August 2018).

University Graduate Council (2016–2019).

DEPARTMENTAL SERVICE

Advisory Council

Colloquium Committee

Computers and Equipment (Chair)

Director Search Committee

Grade Review Panel

Graduate and Undergraduate Studies (Chair)

Library Committee

Personnel Committee

Statistics Club (Chair)