

GEORGE P. H. STYAN — A CELEBRATION

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Abstract

The first time I met George Styan was in July 2004 in Lisbon when he was on his way to the 11th ILAS Conference in Coimbra.

But George had already been in Portugal before and I learned how much he was fond of Conventual, a very fine and nice old style restaurant in Lisbon. Then I also learned that George really is an appreciator of good food and a very well-educated wine drinker. With this detail in common it was really easy to become a good friend with George.

Since then we met a number of times, the most significant of which was at the time of the 17th IWMS held in Tomar, Portugal, in 2008.

Before this event, during a short stay of George and Evelyn in Lisbon, we had the opportunity to go to some nice spots like Sintra and to hang around a few nice places near Lisbon and even to attend a Leonard Cohen concert, together with some friends.

Actually, even more than good food and a good wine, and more than a good mathematical challenge, George enjoys the company of his family and his friends. We may even say that more than Mathematics, it is his family and his friends that play and have always played a central role in his life. Everybody knows well how much he cares about Evelyn, the great woman behind the great man, and also everybody knows the looks in George's face when he meets the ones he cares about.

Inevitably, besides addressing some of George's honors and also his scientific work and his interest in mathematics related stamps, it is based on a number of pictures, either taken by the author or by other friends and a couple of them even taken by George himself, that this little contribution to the celebration of George Styan's 75th birthday will be indeed more a celebration of the way George enjoys and nurtures the company of the ones he loves.

Keywords: Cochran's theorem, distribution, linear algebra, quadratic forms, Schur complements.

2010 Mathematics Subject Classification: 62-01, 62J99.

1. CHEERS GEO(RGE)!

The first time I met George Styan was in July 2004 in Lisbon when he was on his way to the 11th ILAS Conference in Coimbra.

But George had already been in Portugal before and I learned how much he was fond of Conventual, a very fine and nice old style restaurant in Lisbon. Then I also learned about George's taste for good food and good wine. With this detail in common it was really easy to become a good friend with George.

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It was at that time that when going for some beer, which we decided to 'convert' into a nice white wine that I took the picture in Figure 1 at Hennessy's in downtown Lisbon, not far from the Tagus river.



Figure 1 – George Styan and Evelyn at Hennessy's in Lisbon (2008)

By that time I had no idea that this picture came out so appropriately. It not only seems that indeed George is having one of his bright ideas (look at the lamp that seems to sit on top of his head) but also the saying that 'behind a great man there is always a great woman' seems to be most adequate.

That wherever George is there is cheer and joy is well documented in the pictures in Figure 2, which I had a chance to take during a boat trip at Castelo-do-

Bode dam, near Tomar, at the time of IWMS'08, with his friends Mike Perlman and T.W. Anderson.



Figure 2 – Triptic: Michael Perlman, T. W. Anderson, George Styan
right before lunch on a boat at Castelo-do-Bode dam
(Portugal – IWMS'08)

George's almost mythic appreciation of good table makes it easy to picture good moments around a table, and as documented in Figure 3, it almost seems that he carefully chooses his friends as people with the same interests.



Figure 3 – From left to right in a clockwise manner:
The author - George Styan - T. W. Anderson - Michael Perlman
lunch time on the boat at Castelo-do-Bode dam
(Portugal – IWMS'08)

The capacity George has to change things, for the better, with his presence is well documented in the group picture for IWMS'07 in Figure 4. Nothing remains the same after his arrival and actually when we look at the first picture we feel that there was something, more precisely, someone missing.

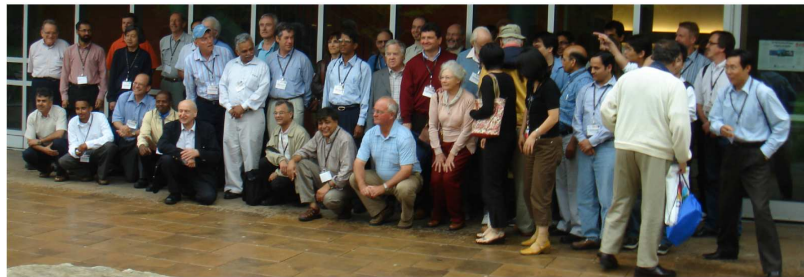


Figure 4 – IWMS'07 - Windsor, Canada

The group picture, before, during and after the arrival of George Styan

Everybody who knows George also knows about his interest in recent years for stamps related with mathematical aspects. This was one of the reasons why in IWMS'08 the organizers presented him with a stamp from the Portuguese post depicting him in his nice outfit from the promotion for his honorary degree from the University of Tampere in 2000, with some of the most celebrated buildings from Tomar in the background. As such I thought most adequate to try to build a gallery of some of the existing stamps depicting great mathematicians of all times, from several countries around the world.

This gallery, for sure incomplete, is in Figures 5–7. Many of the stamps were taken from the extraordinary web-site <http://www.mlahanas.de/Stamps/Data/Mathematician/>.

Actually, besides the stamp where George is depicted, other pictures would give very good stamps as the ones in Figure 8.



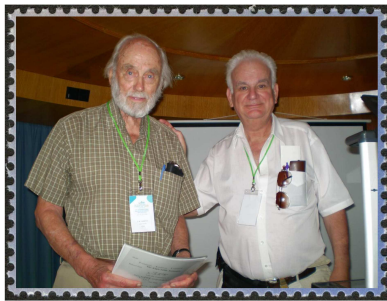
Figure 5 – Stamps of great Mathematicians: A-D



Figure 6 – Stamps of great Mathematicians: D-L



Figure 7 – Stamps of great Mathematicians: L-W



*T.W. Anderson & George Styan
on a boat at C.-do-Bode dam*



*George Styan, Roman Zmyslony
and T.W. Anderson*



*the author,
Ravindra Bapat,
Stephen Haslett,
Ejaz Ahmed,
Bertie,
George Styan
before dinner in Tomar*

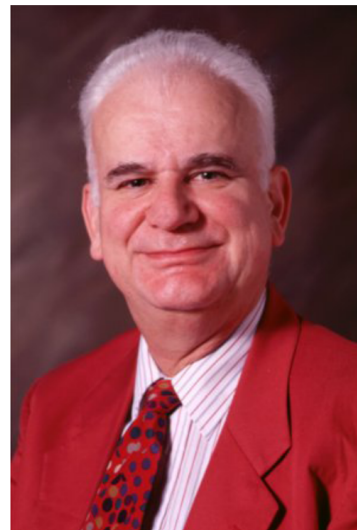
Figure 8 – Three pictures from IWMS'08 which would give good stamps

George also got more important honors than the stamp awarded to him at IWMS'08, as his Doctor *Honoris Causa* degree in Tampere, Finland (2000) and his nomination as Honorary Member of the Statistical Society of Canada, in June 2009, documented in Figure 8.

As the statement of his own University, The McGill University, concerning this latter award says: “Honorary Membership of the Statistical Society of Canada is awarded to a statistical scientist of outstanding distinction who has contributed to the development of the statistical sciences in Canada”, and as the statement from the Statistical Society of Canada itself says, this award is “for his deep research at the interface of Matrix Theory and Statistics; for his remarkable editorial work within Canada and beyond, his mentoring of graduate and postdoctoral students; and for innumerable other scholarly and professional contributions to the international statistical community”.



Doctor *Honoris Causa*
University of Tampere
Finland (2000)



Honorary Member
Statistical Society of Canada
June, 2009

Figure 9 – George P. H. Styan honors

2. FAMILY AND FRIENDS

For George, we may say that maybe even more important than Mathematics, it is his family and his friends that play and have always played a central role in his life. How much George cheers Evelyn may be seen from the form he keeps her

heavily guarded as it may be seen in Figure 10. Actually this is a magnification of a larger picture taken from Evelyn in front of the Queluz palace, near Lisbon, which is in Figure 11. In this Figure we may also see Evelyn, now guarded by a much better looking body-guard.



Figure 10 – Evelyn heavily guarded



Evelyn in front of Queluz palace



Evelyn and the author

Figure 11 – Evelyn in Queluz palace, near Lisbon (2008)

And how much George cheers and enjoys his friends company may be easily seen from his looks when we find him around those he loves. Indeed even better looks than when he is enjoying good food together with a good wine, which are a must for an extremely well-educated wine drinker and appreciator. In Figures 12–15 we may see George enjoying the company of a number of his closer friends, being this the opportunity to apologize for all those other many who remained not depicted in any of these pictures.

The first picture in Figure 12 was taken by Soile Puntanen and it surely would make one the most beautiful stamps ever, not needing any further framing. We

would say that only Soile is really missing there, but I think we may all easily imagine her with all care, love and enjoyment taking such a beautiful picture.



*Simo Puntanen, George Styan
and Evelyn at a restaurant
in St. John's, Canada*



*Bernardete Ribeiro, Alexander Kovacec
Evelyn, George Styan and Soile Puntanen
Coimbra, Portugal, 2008*

Figure 12 – George, Evelyn and their friends I.

In the second picture in Figure 12 we have a good take of Soile, but since we cannot have it all, now Simo Puntanen was taking the photo.

Simo is also the author of both pictures in Figure 13, depicting George and Evelyn Styan at two different dinner times in 2008.

In Figure 14 we have George together with a number of some of his friends. In the second picture in Figure 14 we have Stephen Haslett, George Styan and Jeffrey Hunter and for the speed they are moving at it is easy to guess where they are heading to: dinner, at a small restaurant in Tomar garden by the time of IWMS'08.



*T.W. Anderson, George Styan
Evelyn Styan and Dorothy Anderson
dinner at IWMS'08*



*the author, Evelyn Styan
Soile Puntanen and George Styan
dinner time in Lisbon, 2008*

Figure 13 – George, Evelyn and their friends II.



*Shuangzhe Liu, Augustyn Markiewicz
George Styan and Yogendra Chaubey
at the time of IWMS'07, Windsor*



*Stephen Haslett, George Styan
and Jeffrey Hunter
heading for dinner (IWMS'08)*

Figure 14 – George and some of his closer friends.

3. GEORGE P. H. STYAN'S EDITORIAL POSITIONS AND PUBLICATIONS

George P. H. Styan has a long and honorable career in Mathematics. He has served in the Editorial Boards of many scientific journals and published ten books and over one hundred sixty papers. In the following pages we attempt to compile an almost complete listing of his editorial positions and publications (books and papers) up to now.

Many thanks to Simo Puntanen and George Styan himself for the help in gathering the information.

3.1. Editorial Positions

Editor-in-Chief

- *Chance Magazine*: vol. 9, no. 1 (1996)–vol. 11, no. 4 (1998);
- *Forthcoming Events/Activités Prévues*: supplement to *The Canadian Journal of Statistics/La Revue Canadienne de Statistique*: 1979–1984;
- *Image–The Bulletin of the International Linear Algebra Society*: no. 13 (July 1994)–no. 30 (April 2003) jointly with Steven J. Leon: no. 13 (July 1994)–no. 18 (Winter/Spring 1997, with Hans Joachim Werrner: no. 25 (October 2000)–no. 30 (April 2003);
- *The IMS Bulletin*: vol. 16 (1987)–vol. 21 (1992);
- *International Calendar of Statistical Events*: In *The IMS Bulletin*, vol. 16 (1987)–vol. 25 (1996); *Supplément à La Gazette des Sciences Mathématiques du Québec*: 1977–1978;
- *Statistical Science Association of Canada/Association Canadienne de Science Statistique Newsletter*: 1972.

Abstracting Editor:

- *Current Index to Statistics*: 2000–to date; pub. American Statistical Association (Alexandria, Virginia) & Institute of Mathematical Statistics (Beachwood, Ohio), ISBN 1–931586–15–2, ISSN 1094–7469. [Bibliography of over 250,000 items referencing the literature in statistics and probability.]

Managing Editor:

- *The Canadian Journal of Statistics/La Revue Canadienne de Statistique*: 1977–1984, 1999–2009, vol. 5, no. 2 (June 1977)–vol. 12, no. 2 (June 1984), vol. 27, no. 1 (March 1999)–vol. 36, no. 4 (December 2008); Editor: McGill University Reports from the Department of Mathematics and Statistics (ISSN 0824–4944): 1982–1984 (jointly with William O. J. Moser), 2002–to date;

Associate Editor

- *Far East Journal of Mathematics*: 2007–to date;
- *Journal of Inequalities in Pure and Applied Mathematics*: 1999–2005;
- *Journal of Statistics & Management Systems*: 2005–to date;
- *Mathematical Inequalities & Applications*: 1997–to date ;
- *Communications in Statistics*: 1977–2000;
- *Journal of Statistical Planning and Inference*: 1992–2000;
- *Istatistik–Journal of the Turkish Statistical Association*: 1995–1999 ;
- *Linear Algebra and its Applications*: 1986–2004;
- *SIAM Journal on Matrix Analysis and Applications*: 1995–1997;
- *SSC Liaison–The Newsletter of the Statistical Society of Canada*: 1987–1999 & Production Editor: 2005–2007.

Book Reviews Editor

- *The Canadian Journal of Statistics*: 1985–1988;

Corresponding Editor

- *The IMS Bulletin*: 1993–2000.

Joint Editor

- (with Alan J. Wright), *European Aviation News*: February 1958–1963;
- (with Leslie F. Sarjeant), *Overseas Civil Register News*: 1956–1957;
- *European Aviation News*: January 1958;

Advisory Editor

- *Chance Magazine*: 1999–2007;

Member of the International Editorial Board

- Research Group on Mathematical Inequalities and Applications (RGMIA), Melbourne, Australia: 1999– .

3.2. Special Issues Guest Edited

1. Ingram Olkin, C. Radhakrishna Rao & George P. H. Styan, eds. (1985–1986). First Special Issue on Linear Algebra and Statistics: *Linear Algebra and its Applications*, vol. 67 (June 1985), 279 pp.; vol. 70 (October 1985), 369 pp. & vol. 82 (October 1986), pp. 143–279.
2. Michael D. Perlman, Friedrich Pukelsheim & George P. H. Styan, eds. (1990). Second Special Issue on Linear Algebra and Statistics: *Linear Algebra and its Applications*, vol. 127 (January 1990), viii + 656 pp.
3. Jerzy K. Baksalary & George P. H. Styan, eds. (1992). Third Special Issue on Linear Algebra and Statistics: *Linear Algebra and its Applications*, vol. 176 (November 1992), viii + 289 pp. [Includes papers presented at the International Workshop on Linear Models, Experimental Designs & Related Matrix Theory: Tampere, Finland, August 1990.]
4. Jerzy K. Baksalary & George P. H. Styan, eds. (1993). Special Issue, Papers Presented at the International Workshop on Linear Models, Experimental Designs, and Related Matrix Theory. *Journal of Statistical Planning and Inference*, vol. 36, no. 2 & 3 (August/September 1993), ii + pp. 127–432. [Zbl 783.00013; 24 research papers presented at the Workshop held in Tampere, Finland, 6–8 August 1990.]
5. Friedrich Pukelsheim, George P. H. Styan, Henry Wolkowicz & Ion Zaballa, eds. (1994). Special Issue Honoring Ingram Olkin. *Linear Algebra and its Applications*, vol. 199 (March 1994), viii + 445 pp. [Special Issue in Honor of Ingram Olkin’s 70th Birthday.]
6. Jeffrey J. Hunter, Simo Puntanen & George P. H. Styan, eds. (1994). Fourth Special Issue on Linear Algebra and Statistics: *Linear Algebra and its Applications*, vol. 210 (October 1994), ii + 273 pp.
7. R. B. Bapat, George P. H. Styan & Hans Joachim Werner, eds. (1996). Fifth Special Issue on Linear Algebra and Statistics: In Celebration of the 75th Birthday of C. R. Rao. *Linear Algebra and its Applications*, vol. 237/238 (April 1996), vii + 592 pp. [MR1382661.]
8. R. William Farebrother, Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds. (1997). Sixth Special Issue on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 264 (October 1997), ix + 506 pp. [Zbl 881.00016.]
9. R. William Farebrother, Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds. (1999). Seventh Special Issue on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 289 (March 1999), iv + 344 pp. [Includes papers from the Sixth International Workshop on Matrices and Statistics, Istanbul, Turkey, August 16–17, 1997. MR 99i:00019, Zbl 928.00027.]

10. Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds (2000). Eighth Special Issue on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 321 (15 December 2000), xi + 412 pp. [MR1799634, Zbl 0972.00016.]
11. Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds. (2002). Ninth Special Issue on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 354 (15 October 2002), xii + 291 pp. [MR1927644.]
12. Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds. (2004). Tenth Special Issue (Part 1) on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 388 (1 September 2004), 400 pp.
13. Simo Puntanen, George P. H. Styan & Hans Joachim Werner, eds. (2005). Tenth Special Issue (Part 2) on Linear Algebra and Statistics. *Linear Algebra and its Applications*, vol. 410 (15 November 2005), 290 pp.
14. S. Ejaz Ahmed, Jeffrey J. Hunter, George P. H. Styan & Götz Trenkler, eds. (2009). Special Issue devoted to selected papers presented at the 16th International Workshop on Matrices and Statistics (IWMS-2007): Windsor, Ontario, Canada, June 1-3, 2007. *Linear Algebra and its Applications*, vol. 430, no. 10, pp. 2563–2834 (1 May 2009).

3.3. Publications

I. Books

1. T. W. Anderson, Somesh Das Gupta & George P. H. Styan (1972, 1977). *A Bibliography of Multivariate Statistical Analysis*. Oliver & Boyd, Edinburgh, Scotland, x+642 pp., ISBN 0-05-002548-1. Reprinted by Halsted Press, New York, 1972, ISBN 0-470-02650-2 & by Robert E. Krieger, Huntington, New York, 1997, ISBN 0-88275-477-7. [MR56: 1585; Zbl 263.62001, 421.62033.]
2. Simo Puntanen & George P. H. Styan (1988). *A Personal Guide to the Literature in Matrix Theory for Statistics and Some Related Topics*. Report A 205, Dept. of Mathematical Sciences, University of Tampere, iii+157 pp., December 1988, ISBN 951-44-2385-2, ISSN 0356-3134.
3. George P. H. Styan, ed. (1990). *Abstracts of Papers Presented in Uppsala Sweden, 13–18 August 1990 (2nd World Congress of the Bernoulli Society for Mathematical Statistics and Probability, 53rd Annual Meeting of the Institute of Mathematical Statistics)*. Bernoulli Society for Mathematical Statistics and Probability & Institute of Mathematical Statistics, 217 pp.
4. George P. H. Styan, ed. (1990). *The Collected Papers of T. W. Anderson: 1943–1985. With commentaries*. John Wiley & Sons, New York, vol. 1:

- xlvi + 825 pp., vol. 2: pp. i–viii & 827–1681, ISBN 0–471–62442–5. [MR 91j: 01064.]
5. George P. H. Styan, ed. (1998). *Three Bibliographies and a Guide*. Prepared for the Seventh International Workshop on Matrices and Statistics, in celebration of T. W. Anderson’s 80th birthday (Fort Lauderdale, Florida, December 1998). 100 pp. [Includes: A bibliography on the distribution of quadratic forms in normal variables, with special emphasis on the Craig–Sakamoto theorem and on Cochran’s theorem (with Mylène Dumais), pp. 1–9; A bibliography on the Laguerre–Samuelson inequality and on some related inequalities (with Shane T. Jensen), pp. 10–16; A third bibliography on the Frucht–Kantorovich inequality and on some related inequalities (with Gülhan Alpargu), pp. 17–26.]
 6. Erkki P. Liski, Jarmo Niemelä, Jarkko Isotalo, Simo Puntanen, and George P. H. Styan, eds. (2006). *Festschrift for Tarmo Pukkila on his 60th Birthday*, Dept. of Mathematics, Statistics and Philosophy, University of Tampere, 383 pp., ISBN–13:978–951–44–6620–5.
 7. Simo Puntanen, George P. H. Styan & Jarkko Isotalo (2011) *Matrix Tricks for Linear Statistical Models: Our Personal Top Twenty*. Springer, xvii+486 pages. ISBN: 978–3–642–10472–5. Expanded version of *Matrix Tricks for Linear Statistical Models: Our Personal Top Sixteen*, Third Edition. Report A 363, Dept. of Mathematics, Statistics & Philosophy, University of Tampere, Tampere, Finland, 207 pp., December 2005. [Original version by Simo Puntanen: Report A 302, May 1996; 2nd edition by Simo Puntanen & George P. H. Styan, Report A 330, Dept. of Mathematics, Statistics & Philosophy, University of Tampere.]
 8. Yongge Tian & George P. H. Styan. *Rank Equalities and Inequalities Related to Generalized Inverses and Their Applications*. Research monograph in progress.
 9. Songgui Wang, George P. H. Styan, Zhongzhen Jia & Yongge Tian. *Inequalities in Matrix Theory*. Translation from the Chinese (Anhui Educational Press, viii + 340 pp., 1994, ISBN 7–5336–1386–4), in progress.
 10. Simo Puntanen, George P. H. Styan & Jarkko Isotalo (2012). *Formulas Useful for Linear Regression Analysis and Related Matrix Theory: It’s Only Formulas But We Like Them*, v+125 pages. Springer. To appear.
 11. Simo Puntanen, George P. H. Styan & Jarkko Isotalo (2012). *Estimation, Prediction and Testing in Linear Models*, c.125 pages. Springer. To appear.

II. Papers in peer-reviewed Journals and Collections/Edited Books

1. George P. H. Styan & Harry Smith, Jr. (1964). Markov chains applied to marketing. *Journal of Marketing Research*, 1 (1), 50–55. [Translated into

- Spanish: “Cadenas de Markov aplicadas a marketing”, mimeo, 13 pp.]
2. G. E. Sharpe & G. P. H. Styan (1965). Circuit duality and the general network inverse. *IEEE Transactions on Circuit Theory*, CT-12, 22–27. [Abstract: *IEEE Spectrum*, 2 (1965), 135.]
 3. G. E. Sharpe & G. P. H. Styan (1965). A note on the general network inverse. *IEEE Transactions on Circuit Theory*, CT-12, 632–633.
 4. Robert L. Wolf, Milton Mendlowitz, Julia Roboz, George P. H. Styan, Peter Kornfeld & Alfred Weigl (1966). Treatment of hypertension with spironolactone: double-blind study. *Journal of the American Medical Association*, 198, 1143–1149. [Abstract: *Biometrics*, 23 (1967), 607.]
 5. G. E. Sharpe & G. P. H. Styan (1967). A note on equicofactor matrices. *Proceedings of the IEEE*, 55, 1226–1227.
 6. George P. H. Styan (1970). Notes on the distribution of quadratic forms in singular normal variables. *Biometrika*, 57, 567–572. [RZMat 1971#5 V134, STMA 14:128, Zbl 264:62006.]
 7. Frank Harary, Benjamin Lipstein & George P. H. Styan (1970). A matrix approach to nonstationary chains. *Operations Research*, 18, 1168–1181. [MR 43:8127, Zbl 229:60045.]
 8. G. Marsaglia & G. P. H. Styan (1972). When does $\text{rank}(A+B) = \text{rank}(A) + \text{rank}(B)$? *Canadian Mathematical Bulletin*, 15, 451–452. [MR 47:236, Zbl 252:15002.]
 9. Stanley I. Grossman & George P. H. Styan (1972). Optimality properties of Theil’s BLUS residuals. *Journal of the American Statistical Association*, 67, 672–673. [MR 52:7030, Zbl 265:62020.]
 10. Theophilos Cacoullos & George P. H. Styan (1973). A bibliography of discriminant analysis. In *Discriminant Analysis and Applications: Proceedings of the NATO Advanced Study Institute on Discriminant Analysis and Applications*, Athens, Greece, June 8–20, 1972 (Theophilos Cacoullos, ed.), Academic Press, New York, pp. 375–434. [MR 57:17959, Zbl 297:62037.]
 11. Julian Keilson & George P. H. Styan (1973). Markov chains and M-matrices: inequalities and equalities. *Journal of Mathematical Analysis and Applications*, 41, 439–459. [MR 47:3422, Zbl 255:15016.]
 12. Gene H. Golub & George P. H. Styan (1973). Numerical computations for univariate linear models. *Journal of Statistical Computation and Simulation*, 2, 253–274. [MR 51:11840, Zbl 283:62062.]
 13. George P. H. Styan (1973). Hadamard products and multivariate statistical analysis. *Linear Algebra and its Applications*, 6, 217–240. [MR 47:6724, Zbl 255:15002.]
 14. George P. H. Styan (1973). When does least squares give the best linear unbiased estimate? In *Multivariate Statistical Inference: Proceedings of the*

- Research Seminar at Dalhousie University*, Halifax, Nova Scotia, March 23–25, 1972 (D. G. Kabe & R. P. Gupta, eds.), North-Holland, Amsterdam & American Elsevier, New York, pp. 241–246. [MR 47:7861, 52:9518; Zbl 264:62028.]
15. Gene H. Golub & George P. H. Styan (1973). Some aspects of numerical computations for linear models. In *Proceedings of the Computer Science and Statistics Seventh Annual Symposium on the Interface: Iowa State University*, Ames, October 18–19, 1973 (William J. Kennedy, ed.), Statistical Numerical Analysis and Data Processing Section, Statistical Laboratory, Iowa State University, Ames, Iowa, pp. 189–192.
 16. Norman J. Pullman & George P. H. Styan (1973). The convergence of Markov chains with nonstationary transition probabilities and constant causative matrix. *Stochastic Processes and Their Applications*, 1, 279–285. [MR 53:14665, Zbl 263:60026.]
 17. D. A. S. Fraser, Irwin Guttman & George P. H. Styan (1974). Serial correlation and distributions on the sphere. *Communications in Statistics Series A—Theory & Methods*, 5, 97–118. [MR 56:13460, Zbl 341:62023.]
 18. George Marsaglia & George P. H. Styan (1974). Equalities and inequalities for ranks of matrices. *Linear and Multilinear Algebra*, 2, 269–292. [MR 52:5711, Zbl 297:15003.]
 19. George Marsaglia & George P. H. Styan (1974). Rank conditions for generalized inverses of partitioned matrices. *Sankhyā: The Indian Journal of Statistics*, Series A, 36, 437–442. [MR 52:5699, Zbl 309:15002.]
 20. C. C. Paige, George P. H. Styan & Peter G. Wachter (1975). Computation of the stationary distribution of a Markov chain. *Journal of Statistical Computation and Simulation*, 4, 173–186. [Zbl 331:60040.]
 21. Monique Andrée Giguère & George P. H. Styan (1976). Comparisons between maximum likelihood and naïve estimators in a multivariate normal population with data missing on one variate. *Bulletin de l'Institut International de Statistique: Proceedings of the 40th Session (Warsaw, 1975)*, 46 (3), 303–308. [MR 58:8024, Zbl 398:62038.]
 22. Timo Mäkeläinen & George P. H. Styan (1976). A decomposition of an idempotent matrix where nonnegativity implies idempotence and none of the matrices need be symmetric. *Sankhyā: The Indian Journal of Statistics*, Series A, 38, 400–403. [MR 57:12554, Zbl 412:15018.]
 23. T. Papaioannou, G. P. H. Styan & L. L. Ward (1976). A comparison of BMD, SAS and SPSS. [With discussion by J. Philip Miller, James W. Frane, Jonathan B. Fry, Neal Van Eck & Stewart Robinovitz, and by Jim Goodnight, and with reply by the authors.] In *SAS.ONE: Proceedings of First International S.A.S. Users Conference: Kissimee, Florida, January 26–28, 1976* (Julian Horwich & Evey R. Horwich, eds.), S.A.S. Users

- Group, Raleigh, North Carolina, pp. 361–397.
24. Warren T. Dent & George P. H. Styan (1978). Uncorrelated residuals from linear models. *Journal of Econometrics*, 7, 211–225. [MR 80m:62064, Zbl 337:62081.]
25. Monique Andrée Giguère & George P. H. Styan (1978). Multivariate normal estimation with missing data on several variates. In *Transactions of the Seventh Prague Conference on Information Theory, Statistical Decision Functions, Random Processes and of the Eighth European Meeting of Statisticians (Technical University, Prague, August 18–23, 1974)*, Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague & D. Reidel, Dordrecht, vol. B, pp. 129–139. [MR 80a:62005, 80e:62037, Zbl 406:62033.]
26. Friedrich Pukelsheim & George P. H. Styan (1979). Nonnegative definiteness of the estimated dispersion matrix in a multivariate linear model. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématiques*, 27, 327–330. [MR 80j:62050, Zbl 413:62035.]
27. I. S. Alalouf & G. P. H. Styan (1979). Estimability and testability in restricted linear models. *Mathematische Operationsforschung und Statistik Series Statistics*, 10, 189–201. [MR 82g:62088, Zbl 417: 62055.]
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