CURRICULUM VITAE

Yoshihiko KONNO

February 21, 2025

Personal

Date/Place of Birth	September 9, 1961, Japan
Citizenship	Japan
Mailing address	Department of Mathematics, Osaka Metropolitan University, Gakuen-cho, Naka-ku, Sakai-shi, 599-8531, Japan
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Degrees

Ph.D., University of Tsukuba, Mathematics, 1992.

M.S. University of Tsukuba, Mathematics, 1986.

B.S. University of Tsukuba, Mathematics, 1984.

Employment

Professor, Department of Mathematics, Osaka Metropolitan University, 2022-present.

Professor, Department of Mathematical and Physical Sciences, Japan Women's University, 2006-2022.

Associate Professor, Department of Mathematical and Physical Sciences, Japan Women's University, 2003-2006.

Associate Professor, Chiba Univerisity, 1993-2003.

Lecturer, Ishinomaki Sensyu University, 1990-1993.

Assistant Professor, University of Tsukuba, 1988-1990.

Visiting appointments

Training of Post-Graduate Fellows, School of Mathematics and Statistics, Carleton University, July-Aug/1994.

Visiting Scholar, Statistics, University of Washington, Sep./1997–Sep./1998 (supported by the oversea fellowship of Ministry of Education, Japan).

Grants and Awards

A grand from Japan Society for the Promotion of Science, 2024-2027 (16,000,000 yen, approximately US $ 100,000).

A grand from Japan Society for the Promotion of Science, 2019-2023 (2,800,000 yen, approximately US $ 25,400).

A grand from Japan Society for the Promotion of Science, 2013-2017 (3,400,000 yen, approximately US $ 30,900).

A grand from Japan Society for the Promotion of Science, 2009-2012 (3,400,000 yen, approximately US $ 30,900).

A grand from Japan Society for the Promotion of Science, 2005-2008 (3,400,000 yen, approximately US $ 30,900).

A grand from Japan Society for the Promotion of Science, 2001-2004 (3,500,000 yen).

A grand from the Ministry of Education, Culture, Sports, Science and Technology, Japan, 1999-2000 (1,700,000 yen).

A grand from the Ministry of Education, Culture, Sports, Science and Technology, Japan, 1995 (900,000 yen).

A grand from the Ministry of Education, Culture, Sports, Science and Technology, Japan, 1994 (1,200,000 yen).

A grand from the Ministry of Education, Culture, Sports, Science and Technology, Japan, 1992 (1,000,000 yen).

Professional Menbership, Honor, and Activities

1. **Honor**

Elected Member of International Statistilcal Institute, 2007.

Professor Emeritus of Japan Women's University, 2022.

2. **Membership**

The Institute of Mathematical Statistics.

The American Statisitical Association.

Japan Mathematical Society.

Japan Statistical Socciety.

Japanese Society of Applied Statistics.

Japanese Society of Computational Statistics.

Japanese Association of Financial Econometrics and Engineering.

Mathematical Society of Japan.

The Japan Society for Industrial and Applied Mathematics.

3. **Activities**

Member of Organizeing Committee for Japanese Joint Statistical Meeting, 2004-2006.

Member of Organizeing Committee for Meeting for Japan Statistical Society, 1995-1997.

4. **Editorial Activities**

Associate editor of Journal of Japan Statistical Society, 2002-2006.

Publications

1. **Ph.D. Thesis**

[1] Konno, Y. (1992): Improved estimation of matrix of normal mean and eigenvalues in the multivariate F-distribution, Tsukuba University.

2. **Research Journal Publications (refereed)**

[2] Sugiura, N and Konno, Y. (1987): Risk of improved estimators for generalized variance and precision. Advances in Multivariate Statistical Analysis, A. K. Gupta ed., 353-371.

[3] Konno, Y. (1988): Exact moments of the multivariate F and Beta distributions. *Journal of the Japan Statistical Society* **18**, 123-130.

[4] Sugiura, N. and Konno, Y. (1988): Entropy loss and risk of improve estimators for the generalized variance and precision. *Annals of the Institute of Statistical Mathematics* **40**, 329-341.

[5] Kubokawa, T. and Konno, Y. (1990): Estimating the covariance matrix and the generalized variance under a symmetric loss. *Annals of the Institute of Statistical Mathematics* **42**, 331-343.

[6] Konno, Y. (1990): Families of minimax estimators of matrix of normal means with unknown covariance matrix. *Journal of the Japan Statistical Society* **20**, 191-203.

[7] Konno, Y. (1991): On estimation of a matrix of normal means with unknown covariance matrix. *Journal of Multivariate Analysis* **36**, 44-55.

[8] Konno, Y. (1991): A note on estimating eigenvalues of scale matrix of the multivariate F distribution. *Annals of the Institute of Statistical Mathematics* **43**, 157-165.

[9] Konno, Y. (1992): On estimating eigenvalues of the scale matrix of the multivariate F distribution. *Sankhyā: The Indian Journal of Statistics, Series ASeries A* **54**, 241-251.

[10] Konno, Y. (1995): Estimation of a normal covariance matrix with incomplete data under Stein's loss. *Journal of Multivariate Analysis* **52**, 308-324.

[11] Shiraishi, T. and Konno, Y. (1995): On construction of improved estimators in multiple-design multivariate linear models under general restriction. *Annals of Institute of Statistical Mathematics* **47**, 665-674.

[12] Kariya, T., Konno, Y. and Strawderman, W.E. (1996): Double shrinkage Estimators in the GMANOVA model. *Journal of Multivariate Analysis* **56**, 245-258.

[13] Konno, Y., Kubokawa, T. and Saleh, A.K.Md.E. (1997): Shrinkage estimators in a mixed MANOVA and GMANOVA model. *Statistics & Decisions* **15**, 37-49.

[14] Konno, Y. (1998): Order-preserving estimators of eigenvalues of the scale matrix in the multivariate F distribution under Stein's loss function. *Applied Statistical Science* III, 203-213. Nova Science Publishers.

[15] Kariya, T., Konno, Y. and Strawderman, W.E. (1999): Construction of shrinkage estimators for the regression coefficient matrix in the GMNOVA model. *Communication in Statistics, Theory and Method* **28**, no. 3-4, 597–611.

[16] Kubokawa, T., Saleh, A.K.Md.E., and Konno, Y. (2000): Bayes, minimax, and nonnegative estimators of variance components under Kullback–Leibler loss. *Journal of Statistical Planning and Inference* **86**, 201–214.

[17] Konno, Y. (2001): Inadmissiblity of the maximum likelihood estimator of normal covariance matrices with the lattice conditional independence. *Journal of Multivariate Analysis* **79**, 33-51.

[18] Tsukuma, H. and Konno, Y. (2003): Simultaneous estimation of scale matrices in two-sample problem under elliptically contoured distributions. *Journal of the Japanese Society of Computational Statistics* **16**, 1-22.

[19] Tsukuma, H. and Konno, Y. (2006): Alternative estimators of the common regression matrix in two GMANOVA models under weighted quadratic losses. *Journal of Statistical Planning and Inference* **136**, 1331–1348.

[20] Tsukuma, H. and Konno, Y. (2006): On improved estimation of normal precision matrix and discriminant coefficients. *Journal of Multivariate Analysis* **97**, 1477-1500.

[21] Konno, Y. (2007): Estimation of a normal covariance matrix parametrized by irreducible symmetric cones under Stein's loss. *Journal of Multivairate Analysis* **98**, 295-316.

[22] Konno, Y. (2007): Improving on the sample covariance matrix for a complex elliptically contoured distribution. *Journal of Statistical Planning and Inference* **137**, 2475-2486.

[23] Konno, Y. (2007): A class of orthogonally invariant Minimax estimators for normal covariance matrices parametrized by simple Jordan algebras of degree 2. *Journal of Statistical Studies* **27**, 67-75.

[24] Konno, Y. (2009): Shrinkage Estimators for Large Covariance matrices in multivariate real and complex normal distributions under an invariant quadratic loss. *Journal of Multivariate Analysis* **100**, 2237-2253.

[25] Konno, Y. (2010): Estimation of multivariate complex normal covariance under an invariant quadratic loss. *Communication in Statistics – Theory and Method* **39**, 1490 - 1497.

[26] Emura, T. and Konno, Y. (2012): Multivariate Parametric Approaches for Dependently Left-truncated Data. *Statistical Papers* **58**, 133-149.

[27] Emura, T. and Konno, Y. (2012): A goodness-of-fit test for parametric models based on dependently truncated data. *Computational Statistics and Data Analysis* **66**, 2237-2250.

[28] Emura, T., Konno, Y., and Michimae, H. (2015): Statistical inference based on the nonparametric maximum likelihood estimator under double-truncation. *Lifetime Data Analysis* **21**, 397-418.

[29] Emura, T., Hu, Y.-H., and Konno, Y. (2017): Asymptotic inference for maximum likelihood estimators under the special exponential family with double-truncation. *Statistical Papers* **58**, 877-909.

[30] Shih, J.-H., Chang, Y-T., Konno, Y., and Emura, T. (2019): Estimation of a common mean vector in bivariate meta-analysis under the FGM copula. *Statistics* **53**, 673-695.

[31] Taketomi, N., Konno, Y., Chang Y-T., and Emura, T. (2021): A Meta-Analysis for Simultaneously Estimating Individual Means with Shrinkage, Isotonic Regression and Pretests, *Axioms* **10(4)**, 267.

[32] Shih, J.-H., Konno, Y., Chang, Y-T., and Emura, T. (2022): Copula-based estimation methods for a common mean vector for bivariate meta-analyses. *Symmetry* **15(2)**, 186.

[33] Shih, J.-H., Konno, Y., Chang, Y-T., and Emura, T. (2023): A class of general pretest estimators for the univariate normal mean, *Commmunication in Statistics* **52**, 2538-2561.

[34] Taketomi, N., Chang, Y-T. Konno, Y., Mori, M., and Emura, T. (2023+): Confidence interval for normalmeans in meta-analysis based on a pretest estimator. *Japanese Journal of Statistics and Data Science.*

[35] Konno, Y. (2023+): An adaptive singular value shrinkage for estimation problem of low-rank matrix mean with unknown covariance matri. *Japanese Journal of Statistics and Data Science.*

3. **Research Journal Publications written in Japanese (refereed)**

[36] 田栗正章 (Taguri, T.)，橋本明浩 (Hashimoto, A.)，今野良彦 (Konno, Y.) (1998): 欠席率を考慮した第一段階選抜倍率の決定について. 大学入試研究ジャーナル **第８号**, 21–28.

[37] 武冨奈菜美, 渡辺元宗（張元宗）, 今野良彦, 森美穂子, 江村剛志メタ分析における正規母平均の Pretest 推定量. 日本統計学会誌. (In Press).

4. **Unpublished Manuscripts**

[38] Konno, Y. (2013):, Shrinkage estimation of a mean matrix of a complex multivariate normal distribution. arXiv.1302.1950.

Teaching Activities

1. **Ph.D. Theses Supervised**

Jing, Ping (served as co-adviser, Chiba University, 1997), Bootstrap tests of multivariate distributions by projection pursuit techique. Now Professor at China University of Mining and Technology.

Tsukuma, Hisayuki (Chiba University, 2003), Shrinkage estimators in multivariate calibration and two-sample problems under elliptical distributions. Now Associate Professor at Toho University.

2. **Master Theses Supervised**

Tsukuma, Hisayuki (Chiba University, 1999).

Emura, Takeshi (Chiba University, 2002). Now Associate Professor at National Central Univsersity, Taiwan.

Fujita, Katsuhide (Chiba University, 2003).

Kazuma, Saki (Japan Women's University, 2006).

Kosuge, Nana (Japan Women's University, 2006).

Natsume, Kimiko(Japan Women's University, 2007).

Arai, Tomoko(Japan Women's University, 2008).

Seita, Satomi(Japan Women's University, 2021).