Rob J. Hyndman

Curriculum Vitae

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Education and Qualifications

1988	B.Sc.(Hons)	University of Melbourne
1992	Ph.D.	University of Melbourne
2000	A.Stat.	Statistical Society of Australia.

Current positions

2003–	**Professor of Statistics**, Department of Econometrics and Business Statistics, Monash University.
2005–	**Director**, International Institute of Forecasters.
2005–	**Editor-in-Chief**, *International Journal of Forecasting*.
2001–	**Director, Business & Economic Forecasting Unit**, Department of Econometrics and Business Statistics, Monash University.
1999–2006	**Director of Consulting**, Department of Econometrics and Business Statistics, Monash University.

Membership of Associations

- Elected Member, International Statistical Institute.
- Member, International Institute of Forecasters.
- Member, International Association for Statistical Computing.
- Member, Institute of Mathematical Statistics.
- Member, American Statistical Association.
- Member, Statistical Society of Australia.

Honours and awards

2008	Dean's award for excellence in research, Monash University.
2008	Vice-Chancellor's award for postgraduate supervisor of the year, Monash University.
2007	Knibbs Lecturer, Statistical Society of Australia (ACT branch).
2007	Moran Medal for Statistical Science, Australian Academy of Science.
2006	Belz Lecturer, Statistical Society of Australia (Victorian branch).
2002–	Entry in *Who's Who in Finance and Business*, from 33rd edition.
2001–	Entry in *Who's Who in Science and Engineering*, from 6th edition.
2000–	Entry in *Who's Who in Asia and the Pacific Nations*, from 4th edition.
1998–	Entry in Marquis *Who's Who in the World*, from 15th edition.
1998	Award for excellence in teaching, Monash Science Society
1990	Finalist, Channel Ten Young Achiever Awards
1988	Dwights Prize in Statistics, University of Melbourne
1987	Norma McArthur Prize in Statistics, University of Melbourne
1986	Second Maurice H. Belz Prize in Statistics, University of Melbourne

Research

- Since 1991 I have authored 114 papers, chapters or books on statistical topics. A list of these appears on pages 4–8.
- My current research projects include forecasting functional data, non-Gaussian time series models, state space models for exponential smoothing, hierarchical forecasting and conditional distribution estimation.
- I currently supervise 3 Ph.D. students. I have previously supervised an additional 16 Ph.D. students and 3 Masters students.
- I have acquired (in some cases jointly) over $1.5 million dollars in external research grants since 2000. External research grants over $10,000 are listed below.

2000	R.J. Hyndman. "Forecasting Telstra market share". *Funding from Telstra Australia.*	$31,000
2000	R.J. Hyndman. "Electricity demand forecasting". *Funding from TXU.*	$27,933
2000	R.J. Hyndman and T.R.L. Fry "Factors affecting return to work after injury". *Funding from Victorian Workcover Authority.*	$19,678
2001–2002	R.J. Hyndman. "Injury management pilot evaluation". *Funding from Workcover NSW.*	$42,182
2002	R.J. Hyndman. "Evaluation of PBS Forward Estimates methodology". *Funding from Department of Health and Ageing.*	$55,341
2002	C.S. Forbes, L.Gordon-Brown and R.J. Hyndman. "Expert review of emissions projections methodology". *Funding from the Australian Greenhouse Office.*	$11,200
2003	R.J. Hyndman & T.R.L. Fry "Upgrade of Investment Risk Analyser". *Funding from InvestorWeb Ltd.*	$18,000
2004–2008	R.J. Hyndman. "Analysis of NPS interventions". *Funding from the National Prescribing Service.*	$120,000
2004–2006	G.M. Martin, R.D. Snyder and R.J. Hyndman. "New approaches to the analysis of count time series". *Funding from the Australian Research Council.*	$172,317
2006	R.J. Hyndman. "Review of EDQUM savings methodology". *Funding from the Commonwealth Department of Health and Ageing.*	$12,727
2006–2010	R.J. Hyndman and G. Athanasopoulos. "Tourism Forecasting". *Funding from Tourism Australia and the Sustainable Tourism Cooperative Research Centre.*	$312,017
2007–2010	R.J. Hyndman, Peak energy demand forecasting. *Funding from the Electricity Supply Industry Planning Council, Victorian Energy Corporation, Western Power and the Australian Energy Market Operator.*	$606,995
2008	R.J. Hyndman. "PBS Forecasting Model Review". *Funding from the Commonwealth Department of Health and Ageing.*	$46,514
2009	Choi, C., R.J. Hyndman, L. Smith and K. Zhao "An enhanced mortality database for estimating indigenous life expectancy: a feasibility study." *Funding from the Australian Institute of Health and Welfare.*	$10,500
2009–2011	Erbas, B., Abramson, M., Tang, M., Allen, K., Newbigin, E., Dharmage, S., Hyndman, R.J. "The impact of outdoor aeroallergen exposure on asthma exacerbations in children and adolescents". *Funding from the National Health and Medical Research Council.*	$454,550
2010	Choi, C., R.J. Hyndman, L. Smith and K. Zhao "An enhanced mortality database for estimating indigenous life expectancy: stage 2." *Funding from the Australian Institute of Health and Welfare.*	$10,500
2010–2011	R.J. Hyndman. "New methods for hierarchical forecasting with application to HP business forecasting". *HP Labs Innovation Research Program.*	US$27,800

Software

I have developed the following software products for the R platform as a result of my research.

- I contributed the **quantile()** function (with Ivan Frohne) based on Hyndman and Fan (1996).
- The **forecast** package supplements the tools available in base R by providing additional forecast methods, and graphical tools for displaying and analysing forecasts.
- The **fma** package includes all data sets from Makridakis, Wheelwright and Hyndman (1998).
- The **Mcomp** package includes all data sets from the M1 and M3 forecast competitions, plus some functions to handle them.
- The **expsmooth** package includes all data sets from Hyndman, Koehler, Ord and Snyder (2008).
- The **hdrcde** package (written with Jochen Einbeck) provides tools for estimating and plotting highest density regions and conditional densities.
- The **demography** package (written with Heather Booth, Leonie Tickle and John Maindonald) provides basic tools for demographic calculations and implements the functional data approach to demographic forecasting.
- The **rainbow** package (written with Han Lin Shang) provides tools for graphical analysis of functional data.
- The **ftsa** package (written with Han Lin Shang) provides tools for modelling and forecasting functional time series.
- The **fds** package (written with Han Lin Shang) provides functional data sets useful for testing new methods.
- The **hts** package (written with Han Lin Shang) provides tools for forecasting hierarchical time series.

Consulting

- Since 1986, I have produced 185 written reports for clients and worked with several hundred different clients. A list of these reports is given on pages 8–16. I have worked with clients in Australia, the United States, Saudi Arabia and India. Within Australia, I have worked with clients in Adelaide, Brisbane, Canberra, Melbourne, Perth and Sydney.
- Five times I have provided expert witness in litigation cases.

Teaching

- Student evaluations of the postgraduate subject "Quantitative Business Research Methods" (for DBA students) consistently rate my teaching above 4.5 out of 5.
- In 1998, I received the award for "Excellence in teaching" by the Monash Science Society. This is awarded by the students of the Science faculty.
- I am coauthor of the third edition of *Forecasting: methods and applications* (Wiley, 1998). This is the leading textbook in business forecasting and is very widely used internationally. I am also the author of an instructor's manual for the book and I maintain the associated web site. The website receives an average of about 250 pageviews per day.
- I maintain the electronic "Time Series Data Library" on the world-wide web. This library includes over 800 data sets for students to use in projects. It has become well-known internationally and is accessed by students and researchers around the world. The web site receives an average of about 1000 pageviews per day.

Publications

Books

1. Brockwell, P. J., R. A. Davis, and R. J. Hyndman (1991). *ITSM: an interactive time series modelling package for the PC*. New York: Springer-Verlag.
2. Brockwell, P. J., R. A. Davis, and R. J. Hyndman (1994). *ITSM for Windows: a users guide to time series modelling and forecasting*. New York: Springer-Verlag.
3. Makridakis, S., S. C. Wheelwright, and R. J. Hyndman (1998). *Forecasting: methods and applications*. 3rd. New York: John Wiley & Sons. robjhyndman.com/forecasting/.
4. Hyndman, R. J., A. B. Koehler, J. K. Ord, and R. D. Snyder (2008). *Forecasting with exponential smoothing: the state space approach*. Berlin: Springer-Verlag. www.exponentialsmoothing.net.

Refereed research papers

1. Brockwell, P. J., R. J. Hyndman, and G. K. Grunwald (1991). Continuous time threshold autoregressive models. *Statistica Sinica* **1**, 401–410.
2. Brockwell, P. J. and R. J. Hyndman (1992). On continuous-time threshold autoregression. *International Journal of Forecasting* **8**, 157–173.
3. Hyndman, R. J. (1993). Yule-Walker estimates for continuous-time autoregressive models. *Journal of Time Series Analysis* **14**, 281–296.
4. Hyndman, R. J. (1994). Approximations and boundary conditions for continuous-time threshold autoregressive processes. *Journal of Applied Probability* **31**, 1103–1109.
5. Hyndman, R. J. (1995). Highest-density forecast regions for non-linear and non-normal time series models. *Journal of Forecasting* **14**, 431–441.
6. Hyndman, R. J. (1996). Computing and graphing highest density regions. *The American Statistician* **50**, 120–126.
7. Hyndman, R. J., D. M. Bashtannyk, and G. K. Grunwald (1996). Estimating and visualizing conditional densities. *Journal of Computational & Graphical Statistics* **5**, 315–336.
8. Hyndman, R. J. and Y. Fan (1996). Sample quantiles in statistical packages. *The American Statistician* **50**, 361–365.
9. Grunwald, G. K., K. Hamza, and R. J. Hyndman (1997). Some properties and generalizations of non-negative Bayesian time series models. *Journal of the Royal Statistical Society, Series B* **59**, 615–626.
10. Hyndman, R. J. and M. P. Wand (1997). Nonparametric autocovariance function estimation. *Australian Journal of Statistics* **39**, 313–324.
11. Lajbcyjier, P., A. Flitman, A Swan, and R. J. Hyndman (1997). The pricing and trading of options using a hybrid neural network model with historical volatility. *NeuroVe$t Journal* **5**, 27–41.
12. Grunwald, G. K. and R. J. Hyndman (1998). Smoothing non-Gaussian time series with autoregressive structure. *Computational Statistics & Data Analysis* **28**, 171–191.
13. Fraccaro, R., R. J. Hyndman, and A. Veevers (2000). Residual diagnostic plots for checking for model misspecification in time series regression. *Australian & New Zealand Journal of Statistics* **42**(4), 463–477.
14. Grunwald, G. K., R. J. Hyndman, L. M. Tedesco, and R. L. Tweedie (2000). Non-Gaussian conditional linear AR(1) models. *Australian & New Zealand Journal of Statistics* **42**(4), 479–495.
15. Hyndman, R. J. and G. K. Grunwald (2000). Generalized additive modelling of mixed distribution Markov models with application to Melbourne's rainfall. *Australian & New Zealand Journal of Statistics* **42**(2), 145–158.
16. Bashtannyk, D. M. and R. J. Hyndman (2001). Bandwidth selection for kernel conditional density estimation. *Computational Statistics & Data Analysis* **36**(3), 279–298.
17. Erbas, B. and R. J. Hyndman (2001). Data visualization for time series in environmental epidemiology. *Journal of Epidemiology and Biostatistics* **6**(6), 433–443.
18. Hyndman, R. J. (2001). It's time to move from 'what' to 'why'—comments on the M3-competition. *International Journal of Forecasting* **17**(4), 567–570.
19. Predavec, M., C. Krebs, K. Danell, and R. J. Hyndman (2001). Cycles and synchrony in the collared lemming (*dicrostonyx groenlandicus*) in Arctic North America. *Oecologia* **126**, 216–224.
20. Cai, T., R. J. Hyndman, and M. P. Wand (2002). Mixed model-based hazard estimation. *Journal of Computational & Graphical Statistics* **11**(4), 784–798.

21. Hyndman, R. J., A. B. Koehler, R. D. Snyder, and S. Grose (2002). A state space framework for automatic forecasting using exponential smoothing methods. *International Journal of Forecasting* **18**(3), 439–454.
22. Hyndman, R. J. and Q. Yao (2002). Nonparametric estimation and symmetry tests for conditional density functions. *Journal of Nonparametric Statistics* **14**(3), 259–278.
23. Racine, J. and R. J. Hyndman (2002). Using R to teach econometrics. *Journal of Applied Econometrics* **17**(2), 175–189.
24. Hall, P. G. and R. J. Hyndman (2003). Improved methods for bandwidth selection when estimating ROC curves. *Statistics & Probability Letters* **64**, 181–189.
25. Hyndman, R. J. and B. Billah (2003). Unmasking the Theta method. *International Journal of Forecasting* **19**(2), 287–290.
26. Rateau, F., B. Laumonier, and R. J. Hyndman (2003). Normative data for the test of visual analysis skills on an Australian population. *Optometry and Vision Science* **80**(6), 431–436.
27. Hall, P. G., R. J. Hyndman, and Y. Fan (2004). Nonparametric confidence intervals for receiver operating characteristic curves. *Biometrika* **91**(3), 743–750.
28. Hyndman, R. J. (2004). The interaction between trend and seasonality. *International Journal of Forecasting* **20**(4), 561–563.
29. Smith, L., R. J. Hyndman, and S. N. Wood (2004). Spline interpolation for demographic variables: the monotonicity problem. *Journal of Population Research* **21**(1), 95–98.
30. Snyder, R. D., A. B. Koehler, R. J. Hyndman, and J. K. Ord (2004). Exponential smoothing models: means and variances for lead-time demand. *European Journal of Operational Research* **158**(2), 444–455.
31. Billah, B., R. J. Hyndman, and A. B. Koehler (2005). Empirical information criteria for time series forecasting model selection. *Journal of Statistical Computation & Simulation* **75**(10), 831–840.
32. Erbas, B. and R. J. Hyndman (2005). Sensitivity of the estimated air pollution-respiratory admissions relationship to statistical model choice. *International Journal of Environmental Health Research* **15**(6), 437–448.
33. Hyndman, R. J., M. L. King, I. Pitrun, and B. Billah (2005). Local linear forecasts using cubic smoothing splines. *Australian & New Zealand Journal of Statistics* **47**(1), 87–99.
34. Hyndman, R. J., A. B. Koehler, J. K. Ord, and R. D. Snyder (2005). Prediction intervals for exponential smoothing using two new classes of state space models. *Journal of Forecasting* **24**, 17–37.
35. Shenstone, L. and R. J. Hyndman (2005). Stochastic models underlying Croston's method for intermittent demand forecasting. *Journal of Forecasting* **24**, 389–402.
36. Booth, H., R. J. Hyndman, L. Tickle, and P. de Jong (2006). Lee-Carter mortality forecasting: a multi-country comparison of variants and extensions. *Demographic Research* **15**(9), 289–310.
37. De Gooijer, J. G. and R. J. Hyndman (2006). 25 years of time series forecasting. *International Journal of Forecasting* **22**(3), 443–473.
38. Hyndman, R. J. (2006). Another look at measures of forecast accuracy for intermittent demand. *Foresight: the International Journal of Applied Forecasting* **4**, 43–46.
39. Hyndman, R. J. and A. B. Koehler (2006). Another look at measures of forecast accuracy. *International Journal of Forecasting* **22**(4), 679–688.
40. Kostenko, A. V. and R. J. Hyndman (2006). A note on the categorization of demand patterns. *Journal of the Operational Research Society* **57**, 1256–1257.
41. Mandryk, J. A., J. M. Mackson, F. E. Horn, S. E. Wutzke, C.-A. Badcock, R. J. Hyndman, and L. M. Weekes (2006). Measuring change in prescription drug utilization in Australia. *Pharmacoepidemiology & Drug Safety* **15**, 477–484.
42. Meyer, D. and R. J. Hyndman (2006). The accuracy of television network rating forecasts: the effects of data aggregation and alternative models. *Model Assisted Statistics and Applications* **1**(3), 147–155.
43. Wang, X, K. A. Smith, and R. J. Hyndman (2006). Characteristic-based clustering for time series data. *Data Mining and Knowledge Discovery* **13**(3), 335–364.
44. Ye, A. and R. J. Hyndman (2006). Projection pursuit estimator for multivariate conditional densities (Chinese). *J. Fuzhou Univ. Nat. Sci. Ed.* **34**(6), 794–797.
45. Zhang, X., M. L. King, and R. J. Hyndman (2006). Bandwidth selection for multivariate kernel density estimation using MCMC. *Computational Statistics & Data Analysis* **50**(11), 3009–3031.
46. Erbas, B., J.-H. Chang, S. Dharmage, E. K. Ong, R. J. Hyndman, E. Newbigin, and M. Abramson (2007). Do levels of airborne grass pollen influence asthma hospital admissions? *Clinical and Experimental Allergy* **37**(11), 1641–1647.

47. Erbas, B., R. J. Hyndman, and D. M. Gertig (2007). Forecasting age-specific breast cancer mortality using functional data models. *Statistics in Medicine* **26**(2), 458–470.
48. Horn, F. E., J. A. Mandryk, J. M. Mackson, S. E. Wutzke, L. M. Weekes, and R. J. Hyndman (2007). Measurement of changes in antihypertensive drug utilization following primary care educational interventions. *Pharmacoepidemiology & Drug Safety* **16**(3), 297–308.
49. Hyndman, R. J. and A. V. Kostenko (2007). Minimum sample size requirements for seasonal forecasting models. *Foresight: the International Journal of Applied Forecasting* **6**, 12–15.
50. Hyndman, R. J. and M. S. Ullah (2007). Robust forecasting of mortality and fertility rates: a functional data approach. *Computational Statistics & Data Analysis* **51**, 4942–4956.
51. Kim, J. H., P. Silvapulle, and R. J. Hyndman (2007). Half-life estimation based on the bias-corrected bootstrap: a highest density region approach. *Computational Statistics & Data Analysis* **51**(7), 3418–3432.
52. Athanasopoulos, G. and R. J. Hyndman (2008). Modelling and forecasting Australian domestic tourism. *Tourism management* **29**(1), 19–31.
53. Gould, P., A. B. Koehler, F. Vahid-Araghi, R. D. Snyder, J. K. Ord, and R. J. Hyndman (2008). Forecasting time series with multiple seasonal patterns. *European Journal of Operational Research* **191**(1), 205–220.
54. Hyndman, R. J., M. Akram, and B. C. Archibald (2008). The admissible parameter space for exponential smoothing models. *Annals of the Institute of Statistical Mathematics* **60**(2), 407–426.
55. Hyndman, R. J. and H. Booth (2008). Stochastic population forecasts using functional data models for mortality, fertility and migration. *International Journal of Forecasting* **24**(3), 323–342.
56. Hyndman, R. J. and Y. Khandakar (2008). Automatic time series forecasting: The forecast package for R. *Journal of Statistical Software* **26**(3).
57. Magnano, L., J. W. Boland, and R. J. Hyndman (2008). Generation of synthetic sequences of half-hourly temperatures. *Environmetrics* **19**(8), 818–835.
58. Akram, M., R. J. Hyndman, and J. K. Ord (2009). Exponential smoothing and non-negative data. *Australian & New Zealand Journal of Statistics* (4), 415–432.
59. Athanasopoulos, G., R. A. Ahmed, and R. J. Hyndman (2009). Hierarchical forecasts for Australian domestic tourism. *International Journal of Forecasting* **25**(1), 146–166.
60. Hyndman, R. J. and H. L. Shang (2009). Forecasting functional time series (with discussion). *Journal of the Korean Statistical Society* **38**(3), 199–221.
61. Ord, J. K., A. B. Koehler, R. D. Snyder, and R. J. Hyndman (2009). Monitoring processes with changing variances. *International Journal of Forecasting* **25**(3), 518–525.
62. de Silva, A., R. J. Hyndman, and R. D. Snyder (2009). A multivariate innovations state space Beveridge-Nelson decomposition. *Economic modelling* **26**(5), 1067–1074.
63. Wang, X, K. A. Smith-Miles, and R. J. Hyndman (2009). Rule induction for forecasting method selection: meta-learning the characteristics of univariate time series. *Neurocomputing* **72**, 2581–2594.
64. Athanasopoulos, G., R. J. Hyndman, H. Song, and D. Wu (2010). The tourism forecasting competition. *International Journal of Forecasting*. to appear.
65. Erbas, B., M. Akram, D. M. Gertig, D. English, J. L. Hopper, A. M. Kavanagh, and R. J. Hyndman (2010). Using functional data analysis models to estimate future time trends of age-specific breast cancer mortality for the United States and England-Wales. *Journal of Epidemiology* **20**(2), 159–165.
66. Hyndman, R. J. and S. Fan (2010). Density forecasting for long-term peak electricity demand. *IEEE Transactions on Power Systems* **25**(2), 1142–1153.
67. Hyndman, R. J. and H. L. Shang (2010). Rainbow plots, bagplots and boxplots for functional data. *Journal of Computational & Graphical Statistics* **19**(1), 29–45.
68. Shang, H. L. and R. J. Hyndman (2010). Nonparametric time series forecasting with dynamic updating. *Mathematics and computers in simulation*. to appear.
69. de Silva, A., R. J. Hyndman, and R. D. Snyder (2010). The vector innovations structural time series framework: a simple approach to multivariate forecasting. *Statistical modelling*. to appear.
70. Verbesselt, J., R. J. Hyndman, G. Newnham, and D. Culvenor (2010). Detecting trend and seasonal changes in satellite image time series. *Remote Sensing of Environment* **114**(1), 106–115.
71. Yasmeen, F., R. J. Hyndman, and B. Erbas (2010). Forecasting age-related changes in breast cancer mortality among white and black US women. *Cancer Epidemiology*. to appear.

Book chapters

1. Axford, R., G. K. Grunwald, and R. J. Hyndman (1995). "The use of information technology in the conduct of research". In: *Health informatics: an overview*. Ed. by E Hovenga, M Kidd, and B Cesnik. Melbourne: Churchill Livingstone. Chap. 29.
2. Hyndman, R. J. (2002). "ARIMA processes". In: *Informed Student Guide to the Management Sciences*. Ed. by R. Flood. Thomson Learning.
3. Hyndman, R. J. (2002). "Box-Jenkins modelling". In: *Informed Student Guide to the Management Sciences*. Ed. by R. Flood. Thomson Learning.
4. Hyndman, R. J. and R. D. Snyder (2002). "Kalman filter". In: *Informed Student Guide to the Management Sciences*. Ed. by R. Flood. Thomson Learning.
5. Hyndman, R. J. and H. L. Shang (2008). "Bagplots, boxplots and outlier detection for functional data". In: *Functional and Operatorial Statistics*. Ed. by S. Dabo-Niang and F. Ferraty. Springer. Chap. 31, pp.201–207.
6. Hyndman, R. J. (2010). "Business forecasting methods". In: *International Encyclopedia of Statistical Science*. Ed. by M. Lovric. to appear. Springer.
7. Hyndman, R. J. (2010). "Forecasting overview". In: *International Encyclopedia of Statistical Science*. Ed. by M. Lovric. to appear. Springer.
8. Hyndman, R. J. (2010). "Moving averages". In: *International Encyclopedia of Statistical Science*. Ed. by M. Lovric. to appear. Springer.

Papers in conference proceedings

1. Hyndman, R. J. (1987). Calculating the odds. In: *Faces of gambling, Proceedings of the second national conference of the National Association for Gambling Studies (1986)*. Ed. by M. Walker, pp.139–152.
2. Hyndman, R. J. (1999). Nonparametric additive regression models for binary time series. In: *Proceedings, 1999 Australasian Meeting of the Econometric Society*. 7–9 July 1999, University of Technology, Sydney.
3. Erbas, B. and R. J. Hyndman (2001). Statistical methodological issues in studies of air pollution and respiratory disease. In: *New Trends in Statistical Modelling: Proceedings of the 16th International Workshop on Statistical Modelling, Denmark July 2001*. Ed. by B. Klein and L. Korsholm. Odense, Denmark: University of Southern Denmark, pp.179–186.
4. Hyndman, R. J. and M. S. Ullah (2005). Robust forecasting of mortality and fertility rates: a functional data approach. In: *Proceedings, 55th session of the International Statistical Institute, Sydney, Australia, April 2005*. International Statistical Institute.
5. Wang, X, K. A. Smith, and R. J. Hyndman (Apr. 2005). Dimension reduction for clustering time series using global characteristics. In: *Lecture Notes in Computer Science*. Vol. 3516. Proceedings. Computational Science – ICCS 2005: 5th International Conference, Atlanta, GA, USA, May 22–25, 2005, pp.792–795.
6. Shang, H. L. and R. J. Hyndman (2009). Nonparametric time series forecasting with dynamic updating. In: *Proceedings, 18th World IMAS/MODSIM Congress*. Cairns, Australia, 13–17 July 2009.
7. Villanova, L., P. Falcaro, D. Carta, I. Poli, R. J. Hyndman, and K. Smith-Miles (2010). Functionalization of microarray devices: process optimization using a multiobjective PSO and multiresponse MARS modeling. In: *Proceedings. 2010 IEEE congress on evolutionary computation*. July 2010. Barcelona, Spain.

Unpublished working papers

1. Hyndman, R. J. (1995). "The problem with Sturges' rule for constructing histograms".
2. Grunwald, G. K., R. J. Hyndman, and L. M. Tedesco (1996). "A unified view of linear AR(1) models".
3. Erbas, B. and R. J. Hyndman (2000). "Seasonal adjustment methods for the analysis of respiratory disease in environmental epidemiology".
4. Ord, J. K., R. D. Snyder, A. B. Koehler, R. J. Hyndman, and M. Leeds (2005). *Time series forecasting: the case for the single source of error state space approach*. Working paper 7/05. Department of Econometrics & Business Statistics, Monash University.
5. Ye, A., R. J. Hyndman, and Z. Li (2006). *Local linear multivariate regression with variable bandwidth in the presence of heteroscedasticity*. Working paper 8/06. Department of Econometrics & Business Statistics, Monash University.
6. Hyndman, R. J., R. A. Ahmed, and G. Athanasopoulos (2007). *Optimal combination forecasts for hierarchical time series*. Working paper 09/07. Department of Econometrics & Business Statistics, Monash University.

7. Kim, J. H., I. Fraser, and R. J. Hyndman (2007). *Improved interval estimation of long run response from a dynamic linear model: a highest density region approach*. Working paper. Department of Econometrics & Business Statistics, Monash University.
8. Ouwehand, P., R. J. Hyndman, T. G. de Kok, and K. H. van Donselaar (2007). *A state space model for exponential smoothing with group seasonality*. Working paper 07/07. Department of Econometrics & Business Statistics, Monash University.
9. Kostenko, A. V. and R. J. Hyndman (2008). *Forecasting without significance tests?* Working paper. Department of Econometrics & Business Statistics, Monash University.
10. De Livera, A. M. and R. J. Hyndman (2009). *Forecasting time series with complex seasonal patterns using exponential smoothing*. Working paper 15/09. Department of Econometrics & Business Statistics, Monash University.
11. Shang, H. L., R. J. Hyndman, and H. Booth (2010). *A comparison of ten principal component methods for forecasting mortality rates*. Working paper 08/10. Department of Econometrics & Business Statistics, Monash University.

Book reviews

1. Hyndman, R. J. (1996). Book review of "Kernel smoothing" by Wand and Jones (Wiley, 1995). *Journal of Applied Statistics* **23**, 677–678.
2. Hyndman, R. J. (1998). Book review of "Leading personalities in Statistical Science" edited by Kotz and Johnson (Wiley, 1998). *Australian & New Zealand Journal of Statistics* **40**(3), 382–383.
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