# **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 & Business Statistics, Monash University.
- 2005- Director, International Institute of Forecasters.
- 2005- Editor-in-Chief, International Journal of Forecasting.
- 2011- Editor, Journal of Statistical Software.
- 2001- **Director, Business & Economic Forecasting Unit**, Department of Econometrics & Business Statistics, Monash University.
- 1999- Director of Consulting, Department of Econometrics & Business Statistics, Monash University.

## Honours and awards

- 2010 Dean's Award for excellence in innovation and external collaboration, Monash University.
- 2010 HP Innovation Research Award.
- 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).
- 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

## **Membership of Associations**

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

## Research

- Since 1991 I have authored 170 papers, chapters or books on statistical topics. A list of these appears on pages 4–10.
- I have received several awards for my research including the 2007 Moran Medal from the Australian Academy of Science.
- My current research projects include forecasting electricity demand, forecasting large collections of time series, and strategies for improving forecasts through bagging and boosting.
- I currently supervise seven PhD students and three post-doctoral fellows. I have previously supervised another 21 PhD students and 3 Masters students.
- ► In 2008 I won the Monash Vice-Chancellor's award for postgraduate supervisor of the year.
- I publish a blog on research issues (robjhyndman.com/hyndsight/) which receives an average of about 1500 pageviews per day.
- ► I have produced 20 R packages as a result of my research. These are listed on page 20.

### Grants

I have acquired (in most cases jointly) over \$3.5 million 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". <i>Funding from</i> 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". <i>Funding from InvestorWeb Ltd</i> .	\$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". <i>Funding from the Australian Research Council</i> .	\$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." <i>Funding from the Australian Institute of Health and Welfare</i> .	\$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". <i>Funding from the National Health and Medical Research Council</i> .	\$454,550
2010	Choi, C., R.J. Hyndman, L. Smith and K. Zhao "An enhanced mortality database for estimating indigenous life expectancy: stage 2." <i>Funding from the Australian Institute of Health and Welfare</i> .	\$10,500
2010-2011	R.J. Hyndman. "New methods for hierarchical forecasting with application to HP business forecasting". <i>Funding from the HP Labs Innovation Research Program</i> .	US\$27,800
2011-2015	R.J. Hyndman, "Energy demand forecasting". <i>Funding from the Australian Energy Market</i> Operator.	\$1,106,900
2011-2013	R.J. Hyndman and S. Fan, "Development of electricity peak demand and energy forecasts for the SWIS". Funding from the Independent Market Operator (Western Australia).	\$93,450
2012-2015	K.A. Smith-Miles, R.J. Hyndman, L. Villanova and M. Kah. "Optimising experimental design for robust product development: a cast study for high-efficiency energy generation". ARC <i>Linkage Grant with Ceramic Fuel Cells Ltd</i> .	\$240,000
2014-2016	A.N. Panagiotelis, G. Athanasopoulos, R.J. Hyndman, F. Vahid. "Macroeconomic forecasting in a 'Big Data' world". ARC Discovery Grant.	\$335,000

## Major invited talks

- Belz lecture, Forecasting and the importance of being uncertain, Statistical Society of Australia, Melbourne, October 2006.
- Knibbs lecture, Population forecasting and the importance of being uncertain, Statistical Society of Australia, Melbourne, November 2007.
- > Invited speaker, Forecasting functional time series, Australian Frontiers of Science, Canberra, February 2008.
- ► Keynote speaker, Extreme Forecasting, International Symposium on Forecasting, Hong Kong, June 2009.
- > Workshop leader, Statistical Forecasting: Principles and Practice, Swiss Statistical Society, Kandersteg, June 2011.
- Invited speaker, Advances in automatic time series forecasting, Australian Statistics Conference, Adelaide, July 2012.
- ► Keynote speaker, Man vs Wild Data, Young Statisticians Conference, Melbourne, February 2013.
- ► Keynote speaker, Forecasting without forecasters, International Symposium on Forecasting, Seoul, June 2013.
- Keynote speaker, Automatic time series forecasting, "New Trends on Intelligent Systems and Soft Computing 2014", University of Granada, Spain, February 2014.
- ▶ Workshop leader, State space models for time series, Australian Bureau of Statistics, May 2014.
- ► Keynote speaker, Challenges in forecasting peak electricity demand, Energy Forum, Valais, Switzerland, June 2014.
- ▶ Workshop leader, Functional time series in demography, Humboldt University, Berlin, June 2014.
- ▶ Workshop leader, Forecasting: principles and practice, University of Western Australia, September 2014.
- Invited speaker, Visualization and forecasting of big time series data, ACEMS Big data workshop, QUT, February 2015.
- Keynote speaker, Exploring the boundaries of predictability: what can we forecast, and when should we give up?, Yahoo Big Thinkers, June 2015.
- ► Keynote speaker, Forecasting big time series data using R, Chinese R conference, Nanchang, October 2015.
- Keynote speaker, Forecasting large collections of related time series, German Statistical Week, Augsburg, September 2016.

#### Consulting

- Since 1986, I have worked with several hundred different clients in Australia, the United States, Saudi Arabia, Israel, India, Russia, Switzerland, and the Netherlands. I have produced 239 written consulting reports, listed on pages 10–20.
- Six times I have provided expert witness in litigation cases.

#### Teaching

- Student evaluations for the undergraduate subject "Applied forecasting for business and economics" in 2015 rated my teaching at 4.79 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 author of an innovative textbook with George Athanasopoulos entitled Forecasting: principles and practice (OTexts.org/fpp/) which is available online and free of charge. The website has an average of about 5000 pageviews per day.
- I am establishing an online textbook publishing platform to allow other academics to also publish books in the same format.
- ➤ 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.

## **Publications**

#### PhD thesis

1. Hyndman, R. J. (1992). "Continuous-time threshold autoregressive modelling". PhD thesis. The University of Melbourne.

#### 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. G., S. C. Wheelwright, and R. J. Hyndman (1998). *Forecasting: methods and applications*. 3rd. New York: John Wiley and Sons. robhyndman.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.
- 5. Hyndman, R. J. and G. Athanasopoulos (2014). *Forecasting: principles and practice*. Melbourne, Australia: OTexts. OTexts.org/fpp.
- 6. Hyndman, R. J. (2015). Unbelievable. Scotts Valley, CA: CreateSpace. robjhyndman.com/unbelievable.

#### **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.
- Brockwell, P. J. and R. J. Hyndman (1992). On continuous-time threshold autoregression. International Journal of Forecasting 8(2), 157–173.
- 3. Hyndman, R. J. (1993). Yule-Walker estimates for continuous-time autoregressive models. *Journal of Time Series* Analysis **14**(3), 281–296.
- 4. Hyndman, R. J. (1994). Approximations and boundary conditions for continuous-time threshold autoregressive processes. *Journal of Applied Probability* **31**(4), 1103–1109.
- 5. Hyndman, R. J. (1995). Highest-density forecast regions for nonlinear and non-normal time series models. *Journal of Forecasting* **14**(5), 431–441.
- 6. Hyndman, R. J. (1996). Computing and graphing highest density regions. *The American Statistician* **50**(2), 120–126.
- 7. Hyndman, R. J., D. M. Bashtannyk, and G. K. Grunwald (1996). Estimating and visualizing conditional densities. *Journal of Computational and Graphical Statistics* **5**(4), 315–336.
- 8. Hyndman, R. J. and Y. Fan (1996). Sample quantiles in statistical packages. The American Statistician 50(4), 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**(3), 615–626.
- 10. Hyndman, R. J. and M. P. Wand (1997). Nonparametric autocovariance function estimation. *The Australian Journal of Statistics* **39**(3), 313–324.
- 11. Lajbcygier, 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 and Data Analysis* **28**, 171–191.
- 13. Fraccaro, R., R. J. Hyndman, and A. Veevers (2000). Residual diagnostic plots for checking for model mis-specification 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 visualisation 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". International Journal of Forecasting 17(4), 567–570.

- 19. Predavec, M., C. J. Krebs, K. Danell, and R. J. Hyndman (2001). Cycles and synchrony in the Collared Lemming (Dicrostonyx groenlandicus) in Arctic North America. *Oecologia* **126**(2), 216–224.
- 20. Cai, T., R. J. Hyndman, and M. P. Wand (2002). Mixed model-based hazard estimation. *Journal of Computational and 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. S. 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**(2), 181–189.
- 25. Hyndman, R. J. and M. 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 Rosner 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. Keith Ord (2004). Exponential smoothing models: means and variances for lead-time demand. *European Journal of Operational Research* **158**(2), 444–455.
- 31. Billah, M. B., R. J. Hyndman, and A. B. Koehler (2005). Empirical information criteria for time series forecasting model selection. *Journal of Statistical Computation and 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 M. 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**(1), 17–37.
- 35. Shenstone, L. and R. J. Hyndman (2005). Stochastic models underlying Croston's method for intermittent demand forecasting. *Journal of Forecasting* 24(6), 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 forecast-accuracy metrics 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. *The Journal of the Operational Research Society* **57**(10), 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 and Drug Safety* **15**(7), 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-Miles, 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). A Bayesian approach to bandwidth selection for multivariate kernel density estimation. *Computational Statistics & Data Analysis* **50**(11), 3009–3031.

- 46. Erbas, B., J.-H. Chang, S. C. Dharmage, E. K. Ong, R. J. Hyndman, E. Newbigin, and M. J. 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.
- 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 utilisation following primary care educational interventions. *Pharmacoepidemiol*ogy and Drug Safety 16(3), 297–308.
- 49. Hyndman, R. J. and A. V. Kostenko (2007). Minimum sample size requirements for seasonal forecasting models. *Fore-sight: the International Journal of Applied Forecasting* **6**, 12–15.
- 50. Hyndman, R. J. and S. Ullah (2007). Robust forecasting of mortality and fertility rates: A functional data approach. *Computational Statistics & Data Analysis* **51**(10), 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. G., A. B. Koehler, F. Vahid, 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), 1–22.
- 57. Magnano, L., J. W. Boland, and R. J. Hyndman (2008). Generation of synthetic sequences of half-hourly temperature. *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 **51**(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. 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.
- 61. Hyndman, R. J. and H. L. Shang (2009). Forecasting functional time series (with discussion). *Journal of the Korean Statistical Society* **38**(3), 199–221.
- 62. 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.
- 63. Wang, X., K. A. Smith-Miles, and R. J. Hyndman (2009). Rule induction for forecasting method selection: metalearning the characteristics of univariate time series. *Neurocomputing* **72**(10-12), 2581–2594.
- 64. 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* **10**(4), 353–374.
- 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 and Graphical Statistics* **19**(1), 29–45.
- 68. Kolassa, S. and R. J. Hyndman (2010). Free open-source forecasting using R. Foresight: the International Journal of Applied Forecasting **17**, 19–24.
- 69. 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.
- 70. Verbesselt, J., R. J. Hyndman, A. Zeileis, and D. Culvenor (2010). Phenological change detection while accounting for abrupt and gradual trends in satellite image time series. *Remote Sensing of Environment* **114**(12), 2970–2980.
- 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* **32**(5), 542–549.

- 72. Athanasopoulos, G. and R. J. Hyndman (2011). The value of feedback in forecasting competitions. *International Journal of Forecasting* **27**(3), 845–849.
- 73. Athanasopoulos, G., R. J. Hyndman, H. Song, and D. C. Wu (2011). The tourism forecasting competition. *International Journal of Forecasting* **27**(3), 822–844.
- Carta, D., L. Villanova, S. Costacurta, A. Patelli, I. Poli, S. Vezzú, P. Scopece, F. Lisi, K. A. Smith-Miles, R. J. Hyndman, A. J. Hill, and P. Falcaro (2011). Method for optimizing coating properties based on an evolutionary algorithm approach. *Analytical Chemistry* 83(16), 6373–6380.
- 75. De Livera, A. M., R. J. Hyndman, and R. D. Snyder (2011). Forecasting time series with complex seasonal patterns using exponential smoothing. *Journal of the American Statistical Association* **106**(496), 1513–1527.
- 76. Fan, S. and R. J. Hyndman (2011). The price elasticity of electricity demand in South Australia. *Energy Policy* **39**(6), 3709–3719.
- 77. Hyndman, R. J., R. A. Ahmed, G. Athanasopoulos, and H. L. Shang (2011). Optimal combination forecasts for hierarchical time series. *Computational Statistics & Data Analysis* **55**(9), 2579–2589.
- 78. Kim, J. H., I. Fraser, and R. J. Hyndman (2011). Improved interval estimation of long run response from a dynamic linear model: A highest density region approach. *Computational Statistics & Data Analysis* **55**(8), 2477–2489.
- 79. Pearce, J. L., J. Beringer, N. Nicholls, R. J. Hyndman, and N. J. Tapper (2011). Quantifying the influence of local meteorology on air quality using generalized additive models. *Atmospheric Environment* **45**(6), 1328–1336.
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- 81. Shang, H. L., H. Booth, and R. J. Hyndman (2011). Point and interval forecasts of mortality rates and life expectancy : a comparison of ten principal component methods. *Demographic Research* **25**, 173–214.
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- Erbas, B., S. C. Dharmage, M. O. Sullivan, M. Akram, E. Newbigin, P. Taylor, D. Vicendese, R. J. Hyndman, P. Bardin, M. L. Tang, and M. J. Abramson (2012). A case-crossover design to examine the role of aeroallergens and respiratory viruses on childhood asthma exacerbations requiring hospitalization : The MAPCAH study. *Journal of Biometrics & Biostatistics* **57**(018).
- 84. Erbas, B., S. Ullah, R. J. Hyndman, M. Scollo, and M. J. Abramson (2012). Forecasts of COPD mortality in Australia: 2006-2025. BMC Medical Research Methodology **12**(1), 17.
- 85. Fan, S. and R. J. Hyndman (2012). Short-term load forecasting based on a semi-parametric additive model. *IEEE Transactions on Power Systems* **27**(1), 134–141.
- 86. Hyndman, R. J., H. Booth, and F. Yasmeen (2013). Coherent mortality forecasting: the product-ratio method with functional time series models. *Demography* **50**(1), 261–283.
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