Ryan Thompson

Rm E773 Menzies Building · Monash University · Australia

\(+61 \) 4 3128 0113 \(\) \(\) ryan.thompson@monash.edu \(\) ryan-thompson.github.io

Interests

High-dimensional statistics, time series forecasting, mathematical optimisation

Education

PhD in Econometrics and Business Statistics, Monash University	2019-pres.
BCom (Hons) in Business Analytics, University of Sydney	2016
BCom in Econometrics and Finance, University of Sydney	2013 – 2015

Research

Preprints

Thompson, R. and Vahid, F. (2021). 'Group selection and shrinkage with application to sparse semiparametric modeling'. arXiv: 2105.12081.

Thompson, R. (2020). 'Robust subset selection'. arXiv: 2005.08217.

Refereed publications

Matsypura, D., Thompson, R., and Vasney, A. L. (2018). 'Optimal selection of expert forecasts with integer programming'. Omega 78, pp. 165–175.

Non-refereed publications

Thompson, R. (2020). 'Forecasting in the world of big data'. ORMS Tomorrow Spring/Summer 2020, pp. 20-21.

Software

- R package grpsel: Subset selection for generalised linear models with grouped predictors, available on CRAN and GitHub
- R package robustsubsets: Subset selection for linear models with corrupted data, available on
- R package familial: Hypothesis testing for families of population parameters, available on GitHub

Presentations

'Group selection and shrinkage with application to sparse semiparametric	Aug 2021
modeling', Joint Statistical Meetings 2021, contributed talk	
'Robust subset selection', Australian and New Zealand Statistical Conference	Jul 2021
2021, contributed talk	

Awards, scholarships, and prizes

Monash Business School Dean's Excellence Award	Feb 2019–pres.
Australian Government Research Training Program Scholarship	Feb 2019–pres.
Monash Business School Student Excellence Award	Apr 2020
University of Sydney Academic Merit Prize	May 2017

Teaching assistant

Principles of econometrics (ETC3400, ETC5340), Monash University	$\mathrm{Sem}\ 2\ 2021$
Applied forecasting (ETC3550, ETC5550), Monash University	$\mathrm{Sem}\ 1\ 2021$
Statistical thinking (ETC2420, ETC5242), Monash University	$\mathrm{Sem}\ 2\ 2020$
Applied forecasting (ETC3550, ETC5550), Monash University	$\mathrm{Sem}\ 1\ 2020$
Statistical thinking (ETC2420, ETC5242), Monash University	$\mathrm{Sem}\ 2\ 2019$
Business forecasting (ETF3231, ETF5231), Monash University	$\mathrm{Sem}\ 1\ 2019$
Quantitative business analysis (BUSS1020), University of Sydney	$\mathrm{Sem}\ 2\ 2016$
Quantitative business analysis (BUSS1020), University of Sydney	Sem 1 2016

Industry experience

Senior Consultant in Actuarial & Financial Risk, KPMG Australia	Oct 2018–Feb 2019
Consultant in Actuarial & Financial Risk, KPMG Australia	Feb 2017–Sep 2018

Professional service

Reviewer for Omega External thesis examiner for University of Sydney

Affiliations

American Statistical Association, Member Institute of Mathematical Statistics, Member International Institute of Forecasters, Member Statistical Society of Australia, Member

References

Professor Farshid Vahid
Department of Econometrics and Business Statistics, Monash University
+61 3 9905 2359
farshid.vahid@monash.edu

Associate Professor Catherine Forbes

Department of Econometrics and Business Statistics, Monash University
+61 3 9905 2471
catherine.forbes@monash.edu