

Research Review

The latest RSFAS research news & announcements

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**Publication in top statistics journal
Biometrika**

**Publications in top finance journal the
Journal of Financial &
Quantitative
Analysis**

**ANZCA grant
success**

Email your research news to
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Spring is here...and the sun is out...kind of...

Ernest Hemingway once wrote, "When spring came, even the false spring, there were no problems except where to be happiest." He had obviously never heard of our friend La Niña! It's been a wet winter and the forecast is for more of the same this summer!

The silver lining to all these rain packed clouds is that we are stuck indoors with more time for research. So as we race toward the end of the year I'm looking forward to hearing more exciting research news from you all.

For now, please enjoy Issue 3 of *Research Review* which reports on the school's research activity in the last quarter!

Media coverage

Geoff Warren was featured in *Investor Strategy News*, “Power can be used well or it can be used poorly’: Super funds and too big to fail.” You can read the complete piece [here](#).

INVESTOR STRATEGY | **NEWS**

Janice Scealy was interviewed by Cosmos Magazine. In the interview, she talk about my career and what statistics is, and some of the interesting projects she has worked on. The complete interview can be found [here](#).

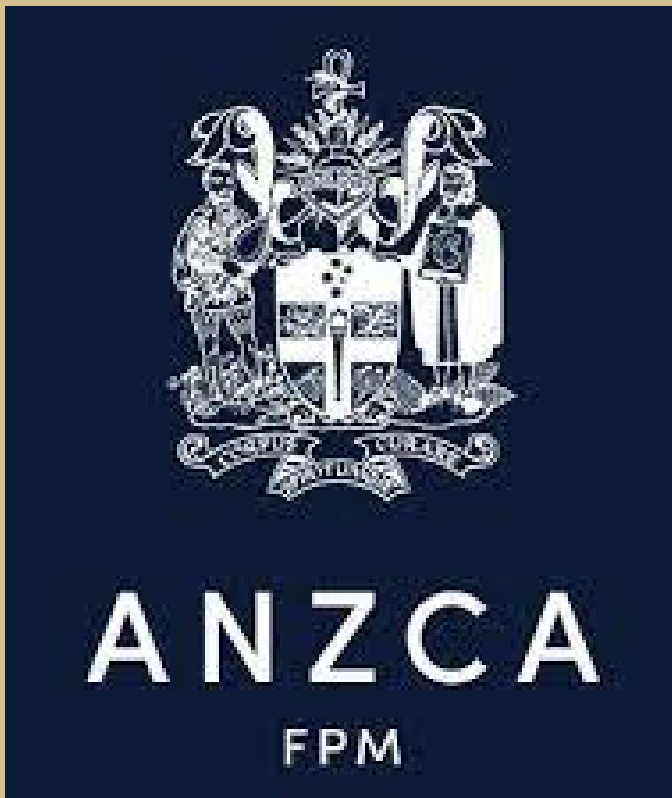
COSMOS **RI AUS**

Congratulations Geoff and Janice!

Grant success

Wai-mam (Raymond) Liu is part of a research team who were awarded the Elain Lillian Kliver ANZCA Research Award 2023. The grant is valued at \$59,800.

Congratulations Raymond!



Summer CAMP



With the 30th of November approaching fast, I'm getting excited about our first *Summer Research Camp* since 2019. The camp will kick off with a welcome dinner at Monster Kitchen & Bar on Wednesday 30th November and the main conference is held at the Hyatt Hotel on 1-2 December.

An update from Tim Higgins: The Actuarial Science program (which will focus on research for government policy) will include Myles Cover (KPMG), Jane Miao (Australian Government Actuary), Lachlan O'Hare (EY) and Hugh Miller (Finity) as speakers.

There have been no changes to the finance and statistics lineups - stay tuned for the final program, which will be out in (hopefully) the second week of November.

Thanks to all involved in organising this year's camp!

External engagement & service

Kentaro Asai made the following presentations

- Invited seminar at Kyoto University.
- Conference presentations at Asia Meeting of the Econometric Society and at the Asian Finance Association Meeting.
- Conference discussions at the FIRN Banking and Financial Stability Meeting and the Asian Finance Association Meeting.
- Panelist for the Agile Governance Symposium "Implementation of New Governance Model to Address Society 5.0" hosted by Kyoto University and Shinshu University

Sapphasak Chatchawan gave an invited seminar at Naresuan University titled "Stock Market Conditions and Macroeconomic Shocks"

Tim Higgins made the following presentations

- "Scheme Rules and ICL subsidy distributions" at Expert discussion on student contributions, government subsidies and HELP, 27 September, JG Crawford Building, ANU
- "Research applications of ICL" keynote at the ANU Income-Contingent Loans Research Policy Contribution conference, 18 July, Crawford School, ANU

Francis Hui was part of a STEM discussion panel on 7 October run as part of the Australian Junior Science Olympiad (JSO) Spring School.

Luca Maestrini made a presentation at the 24th International Conference on Computational Statistics, hybrid event that took place online and in presence in Bologna, Italy, 23-26 August 2022.

Ross Maller made the following presentations

- Invited talk titled "No-Tie Conditions for Large Values of Extremal Processes at Small Times", Levy Processes and Random Walks: a three day workshop to mark the 80th birthday of Ron Doney, Manchester, UK. 26-28 July, 2022:
- Invited talk titled "Testing for Sufficient Followup in Censored Survival Data", Workshop on Missing Data and Survival Analysis, Angers, France. 30 May-1 June, 2022:

External engagement & service cont.

Geoff Warren made the several presentations and gave expert advice, including

- Conexus Retirement Conference, Delegate (discussion with industry, regulators and MPs), 16 August 2022
- Intrepid Minds Infrastructure Summit, Panel member on international investing, 15 September 2022
- ASIC - provided expert advice on cryptocurrency investments (portfolio weights, risk measures), 21 September 2022
- ASIC/APRA – presentation and advice on assessing retirement income strategies and planned APRA/ASIC review of Retirement Income Covenant (with David Bell, Conexus institute), 20 September 2022

Andy Wood gave an invited conference talk at Advances in Direction Statistics, Santiago de Compostela, Spain, June 2022.

Takeshi Yamada made the following presentations

- Keynote address at the Japan Finance Association – Pacific Basin Finance Journal: Special Issue Conference on Japanese Financial Markets. He also gave
- Invited seminar Queensland University of Technology

Visiting us soon

Denis Sosyura

Professor of Finance, Arizona State University
Visiting us 22 November to 4 December



Ron Giammarino

Professor of Finance, U. British Columbia
Visiting us 5 February to 2 March





PhD Outcomes

Donghui Wu (Finance) and Sayla Siddiqui (Finance) have passed the examination process and will soon graduate with their PhDs!

Jiancong Liu (Finance) has also recently submitted his dissertation for examination.

Congratulations Donghui, Sayla and Jiancong!

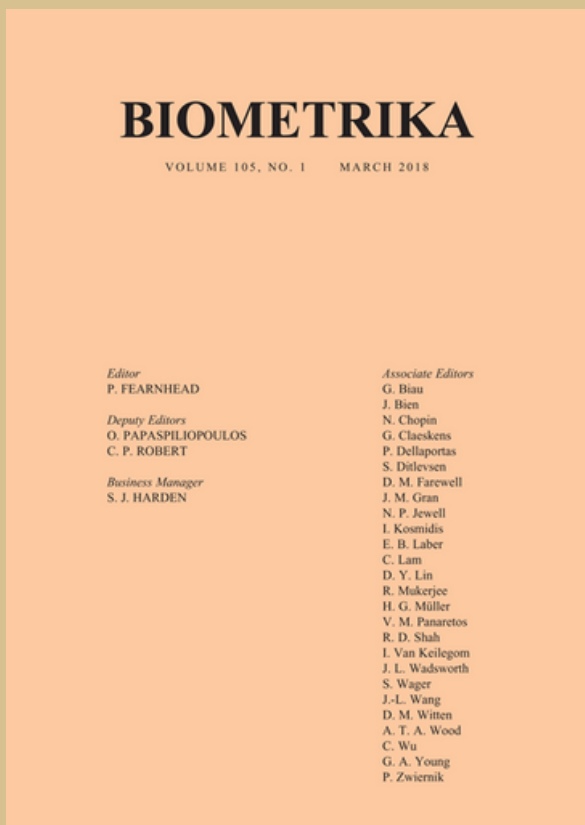
Publications

This quarter has been a productive one for the school with many great publications.

Congratulations to **Yumo Dong, Francis Hui, Allan Welsh, Wai-man (Raymond) Liu, Xin (Kelly) Liu, Luca Maestrini, Ross Maller, Phong Ngo, Jananie William, Bronwyn Loong, Andy Wood, and Yanrong Yang** on their publications (full details on the next page)!

Special mentions Ross who published the leading statistics journal *Biometrika* as well as to Kelly and Phong for their publications in the prestigious *Journal of Financial and Quantitative Analysis*.

Well done all!



Publications (in alphabetical order according to first RSFAS author)

- **Dong Y.**, Frees, E.W., Huang, Fei, and **Hui, F.K.C.** (2022) “Multi-state modelling of customer churn”, *ASTIN Bulletin - The Journal of the International Actuarial Association* 53, 735-764 <<https://doi.org/10.1017/asb.2022.18>>
- **Hui, F.K.C.** (2022) “GEE-assisted forward regression for spatial latent variable models”, forthcoming in *Journal of Computational and Graphical Statistics* <<https://doi.org/10.1080/10618600.2022.2058002>>
- Stoklosa, J., Blakey, R.V., and **Hui, F.K.C.** (2022) “An overview of modern applications of negative binomial modelling in ecology and biodiversity”, *Diversity* 14, 320 <<https://doi.org/10.3390/d14050320>>
- Nghiem, L.H., **Hui, F.K.C.**, Mueller, S., and **Welsh, A.H.** (2022) “Screening methods for linear errors-in-variables models in high dimensions”, forthcoming in *Biometrics* <<https://doi.org/10.1111/biom.13628>>
- **Liu, X.**, Wei, S-J and Zhou. Y. (2022) “A Liberalization Spillover: From Equities to Loans”, forthcoming in the *Journal of Financial and Quantitative Analysis*
- Watts, R., **Liu, W.-M.**, Hooff, M. V., McFarlane, A., Sekhar, V., Kathiravan, T., and Thiruvengatarajan, V. (2022), “Incidence and factors impacting PTSD following the 2005 Eyre Peninsula bushfires in South Australia–A 7 year follow up study” forthcoming in *Australian Journal of Rural Health* < 10.1111/ajr.12909>
- **Maestrini. L.**, (2022) "Sparse linear mixed model selection via streamlined variational Bayes", *Electronic Journal of Statistics*, Vol. 16, No. 2, 5182-5225.
- **Maller, R.A.**, and Shemehsavar, S. (2022) “Generalized Poisson-Dirichlet distributions based on the Dickman subordinator”, forthcoming in *Theor. Prob. Appl.*
- Ipsen, Y, and **Maller, R.** (2022) “No-tie conditions for large values of extremal processes”, Invited paper, in: A Lifetime of Excursions Through Random Walks and Levy Processes, A Volume in Honour of Ron Doney's 80th Birthday, Loic Chaumont, Andreas E. Kyprianou Eds. Springer, Progress in Probability book series (PRPR, volume 78).
- Escobar-Bach, M., **Maller, R.A.**, Van Keilegom, I. and Zhao, M. (2022) “Estimation of the cure rate for distributions in the Gumbel maximum domain of attraction under insufficient follow-up”, *Biometrika* 109, 243-256 <<https://doi.org/10.1093/biomet/asaal06>>
- **Maller, R.**, Resnick, S. (2022) Extremes of censored and uncensored lifetimes in survival data. *Extremes*, 25, 331–361 < <https://doi.org/10.1007/s10687-021-00426-2>>
- **Maller, R.**, Resnick, S, Shemehsavar, S. (2022) Splitting the sample at the largest uncensored observation. *Bernoulli*, 28, 2234-2259 < 10.3150/21-BEJ1417>
- **Ngo, P. T.H.**, and Puente, D., (2022) “What Can Volatility Smiles Tell Us About the Too Big to Fail Problem?” Forthcoming in the *Journal of Financial and Quantitative Analysis*
- **William, J.**, **Loong, B.**, Hanna D., Parkinson, B. and Loxton, D. (2022) “Lifetime health costs of intimate partner violence: A prospective longitudinal cohort study with linked data for out-of-hospital and pharmaceutical costs” forthcoming in *Economic Modelling* < <https://doi.org/10.1016/j.econmod.2022.106013>>
- Butler, R.W. and **Wood, A.T.A.** (2022) “Laplace approximations for hypergeometric functions of Hermitian matrix arguments”, forthcoming in the *Journal of Multivariate Analysis* < <https://doi.org/10.1016/j.jmva.2022.105087>>.
- Fan, Q., Wu, R., **Yang, Y.**, and Zhong, W. (2022) “Time-varying minimum variance portfolio”, forthcoming in the *Journal of Econometrics* <<https://doi.org/10.1016/j.jeconom.2022.08.007>>