Curriculum Vitae

Professor BENJAMIN AVANZI (PhD, Actuary SAA, GAICD)

Office Address: Department of Economics

The University of Melbourne

Level 3, Office 323 111 Barry Street Carlton VIC 2053

Australia

Office Phone: +61 3 8344 8667

b.avanzi@unimelb.edu.au

Websites: http://www.benjaminavanzi.com

https://communicate-data-with-r.netlify.app

https://actl10001.netlify.app https://gim-am3.netlify.app https://github.com/agi-lab

Date of CV: 17 May 2023

Academic qualifications

2008 PhD University of Lausanne, Faculty of Business and Economics (HEC Lausanne), Actuarial Science

(supervisor: Prof. Hans U. Gerber)

2005 Lic Oec University of Lausanne, Faculty of Business and Economics (HEC Lausanne), Business, major in

Actuarial Science

Professional qualifications

Actuary SAA Fully Qualified Actuary with the Swiss Association of Actuaries

(Fully recognised within the Actuarial Association of Europe)

GAICD Graduate member of the Australian Institute of Company Directors

Company Director Course (CDC), 2022

Academic appointments

2020 –	Professor (Full) of Actuarial Studies, Centre of Actuarial Studies, Department of Economics
	Faculty of Business and Economics, University of Melbourne, Australia
2017 - 2018	Chair, UNSW Business School 3+ Reference Group
	UNSW Australia Business School, University of New South Wales (UNSW), Australia
2015 - 2017	Associate Head of School, School of Risk and Actuarial Studies
	UNSW Australia Business School, University of New South Wales (UNSW), Australia
2015 - 2020	Associate Professor of Actuarial Studies, School of Risk and Actuarial Studies
	UNSW Australia Business School, University of New South Wales (UNSW), Australia
2015 - 2018	Professeur associé en actuariat ¹ , Département de Mathématiques et de Statistique
	Faculté des Arts et des Sciences, Université de Montréal (UdeM), Canada
2013 - 2015	Professeur agrégé en actuariat ² , Département de Mathématiques et de Statistique
	Faculté des Arts et des Sciences, Université de Montréal (UdeM), Canada
2013 - 2015	Adjunct Associate Professor, School of Risk and Actuarial Studies
	UNSW Australia Business School ³ , University of New South Wales (UNSW), Australia
2010 - 2013	Senior Lecturer of Actuarial Studies, School of Risk and Actuarial Studies
	Australian School of Business, University of New South Wales, Australia
2008 - 2010	Lecturer of Actuarial Studies, School of Actuarial Studies
	Australian School of Business, University of New South Wales, Australia
2005 - 2008	Various casual lecturer positions, University of Lausanne & Bordeaux Business School
2003 - 2008	Teaching and Research assistant, University of Lausanne

Referees

Available upon request.

¹ 'Adjunct Professor' of Actuarial Science

²'Associate Professor' of Actuarial Science

³Formerly 'Australian School of Business'

RESEARCH

Overview of research expertise

I am a Swiss actuary and my current field of research is in insurance risk and capital. In particular, I develop stochastic models for the understanding, management, forecasting and transfer of risks.

Recent topics include:

- dependence structures between general insurance lines of business (relevant to claims reserving, economic capital, pricing and capital allocation),
- the optimal control of risk theoretical surplus models (stylised equity (capital) models for risk businesses) for the purpose of reinsurance and stability,
- the modelling of complex claims processes, and
- the application of machine learning techniques for the enhancement or extension of existing actuarial techniques (such as claims reserving, model error, non discrimination pricing).

In the past I have also made contributions to the literature in pensions and operations management, and was Executive Chairman of a pension fund in Switzerland before becoming a full time academic.

Fields of Research⁴

Primary:

- 3502 Banking, finance and investment (350206 Insurance studies, and 350208 Investment and risk management)
- 4905 Statistics (490501 Applied statistics, 490508 Statistical data science, and 490510 Stochastic analysis and modelling)
- 4901 Applied mathematics (490106 Financial mathematics, and 490108 Operations research)

Secondary:

- 3801 Applied economics (380107 Financial economics)
- 3802 Econometrics (380202 Econometric and statistical methods)
- 4903 Numerical and computational mathematics (490304 Optimisation)

Major awards

2023	Hachemeister Prize , awarded by the Casualty Actuarial Society (CAS) for the paper <i>Ensemble distributional forecasting for insurance loss reserving</i> which was presented at the 2022 ASTIN Colloquium.
2022	Highly Commended Paper Prize , awarded by United Kingdom Institute and Faculty of Actuaries for the paper <i>SPLICE</i> : A Synthetic Paid Loss and Incurred Cost Experience Simulator (published in the Annals of Actuarial Science)
2018	Taylor Fry General Insurance Seminar Silver Prize , awarded by an independent panel for the paper <i>How to proxy the unmodellable: Analysing granular insurance claims in the presence of unobservable or complex drivers</i> (Australian Actuaries Institute General Insurance Seminar, November 2018)
2017	Hachemeister Prize , awarded by the Casualty Actuarial Society (CAS) for the paper <i>Correlations</i> between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations (2016, ASTIN Bulletin, 46:2)

⁴See, e.g., https://rms.arc.gov.au/RMS/Proposal/Reference/For20Codes.

Publications

Metrics (as of 20 May 2023)

Google Scholar: 1259 citations, h-index of 17 (since 2018: 631 citations, h-index of 15)

Scopus profile: 680 citations, h-index of 11

ResearchGate: Research Interest of 531.6 (88%ile of all RG members, 94%ile of all RG "Risk Management and Insurance"

members), h-index of 15 (13 when self-citations are excluded)

Submitted journal articles

2023 1. Avanzi, B., Lau, H., Steffensen, M. Optimal reinsurance design under solvency constraints Under revision before resubmission

2023 2. Avanzi, B., Taylor, G., Wang, M., Wong, B. Machine learning with high-cardinality categorical features in actuarial applications Under revision before resubmission

3. Avanzi, B., Li, Y., Wong, B., Xian, A. 2023 Ensemble distributional forecasting for insurance loss reserving Under review

2022 4. Avanzi, B., Kusch Falden, D., Steffensen, M. Stable Dividends under Linear-Quadratic Optimization Resubmitted after revisions

2022 5. Avanzi, B., Lavender, M., Taylor, G., Wong, B. Detection and treatment of outliers for multivariate robust loss reserving Under revision before resubmission

6. Avanzi, B., Lavender, M., Taylor, G., Wong, B. 2022 On the impact of outliers in loss reserving Resubmitted after revisions

Peer-reviewed journal articles

Accepted manuscripts can be downloaded for free from here (2008-2019) and here (2017-) in accordance with the journals' copyright regulations.

2023 7. Avanzi, B., Taylor, G., Wang, M. SPLICE: A Synthetic Paid Loss and Incurred Cost Experience Simulator [Q2,A] Annals of Actuarial Science (Actuarial Software), Vol. 17, Issue 1, pp. 7–35.

8. Avanzi, B., Chen, P. Henriksen, L. F. B., Wong, B. 2023 On the surplus management of funds with assets and liabilities in presence of solvency requirements [Q2,A,DL] ⁵ Scandinavian Actuarial Journal, Volume 2023, Issue 5, pp. 477-508.

9. Al-Mudafer, M. T., Avanzi, B., Taylor, G., Wong, B. 2022 Stochastic loss reserving with mixture density neural networks [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 105, pp. 144–174

2021 10. Avanzi, B., Taylor, G., Wang, M., Wong, B. SynthETIC: an individual insurance claim simulator with feature control [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 100, pp. 296–308

2021 11. **Avanzi, B.**, Lau, H., Wong, B. On the optimality of joint periodic and extraordinary dividend strategies [Q1,A*] European Journal of Operational Research, Vol. 295, issue 3, pp. 1189–1210

2021 12. Avanzi, B., Boglioni Beaulieu, G, Lafaye de Micheaux, P., Wong, B. A Counterexample to the Central Limit Theorem for Pairwise Independent Random Variables Having a Common Absolutely Continuous Arbitrary Margin [Q1,n/a] Journal of Mathematical Analysis and Applications, Vol. 499, Issue 1, 124982

⁵[Quartile according to Scimago 2021, Journal rank according to the latest ABDC 2019 list. "FT50" means it is part of the 50 journals used in the FT research rank. "DL" means it appears on the Dean's List.]

2021 13. Avanzi, B., Taylor, G., Wong, B., Yang, X.

On the modelling of multivariate counts with Cox processes and dependent shot noise intensities [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 99, pp. 9–24

2021 14. Avanzi, B., Lau, H., Wong, B.

Optimal Periodic Dividend Strategies for Spectrally Negative Lévy Risk Processes With Fixed Transaction Costs

[Q2,A,DL] Scandinavian Actuarial Journal, Vol. 2021, Issue 8, pp. 645-670

2021 15. Avanzi, B., Taylor, B., Wong, B., Xian, A.

Modelling and understanding count processes through a Markov-modulated non-homogeneous Poisson process framework

[Q1,A*] European Journal of Operational Research, Vol. 290, Issue 1, pp. 177–195

2021 16. Avanzi, B., Taylor, B., Vu, P. A., Wong, B.

On Unbalanced Data and Common Shock Models in Stochastic Loss Reserving

[Q2,A] Annals of Actuarial Science, Vol. 15, Issue 1, pp. 173-203

2020 17. Avanzi, B., Lau, H.., Wong, B.

Optimal Periodic Dividend Strategies for Spectrally Positive Lévy Risk Processes With Fixed Transaction Costs

[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 93, pp. 315–332

2020 18. Avanzi, B., Taylor, B., Vu P. A., Wong, B.

A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims Reserving

[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 93, pp. 50–71

2018 19. **Avanzi, B.**, Taylor, B., Wong, B.

Common shock models for claim arrays

[[Q1,A,DL] ASTIN Bulletin, Vol. 48, Issue 3, pp. 1109-1136

2018 20. Avanzi, B., Tu, V., Wong, B.

Optimal Dividends Under Erlang(2) Inter-Dividend Decision Times

[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 79, pp. 225-242

2018 21. Avanzi, B., Henriksen, L. F. B., Wong, B.

On the distribution of the excedents of funds with assets and liabilities in presence of solvency and recovery requirements

[Q1,A,DL] ASTIN Bulletin, Vol. 48, Issue 2, pp. 647–672.

2017 22. Avanzi, B., Pérez, J.-L., Wong, B., Yamazaki, K.

On optimal joint reflective and refractive dividend strategies in spectrally positive Lévy models [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 72, pp. 148–162.

2016 23. Avanzi, B., Taylor, G., Vu, P. A., Wong, B.

Stochastic Loss Reserving with Dependence: A Flexible Multivariate Tweedie Approach

[Q1,A*,DL] <u>Insurance: Mathematics and Economics</u>, Vol. 71, pp. 63–78.

2016 24. Avanzi, B., Tu, V., Wong, B.

On the interface between optimal periodic and continuous dividend strategies in the presence of transaction

[Q1,A,DL] ASTIN Bulletin, Vol. 46, Issue 3, pp. 709-746.

25. Avanzi, B., Wong, B., Yang, X. 2016

A micro-level claim count model with overdispersion and reporting delays

[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 71, pp. 1–14.

2016 26. **Avanzi, B.**, Taylor, G., Wong, B.

Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations

[Q1,A,DL] ASTIN Bulletin, Vol. 46, Issue 2, pp. 225-263.

2016 27. Avanzi, B., Tao, J., Wong, B., Yang, X.

Capturing Non-Exchangeable Dependence in Multivariate Loss Processes with Nested Archimedean Lévy

[Q2,A] Annals of Actuarial Science, Vol. 10, Issue 01, pp. 87–117.

2016 28. Avanzi, B., Tu, V., Wong, B.

A note on realistic dividends in actuarial surplus models [Q2,B] Risks, Vol. 4, Issue 4, Number 37

29. Avanzi, B., Tu, V., Wong, B. 2014

> On optimal periodic dividend strategies in the dual model with diffusion [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 55, pp. 210–224.

30. de Treville, S., Schürhoff, N., Trigeorgis, L., Avanzi, B. 2014 Optimal Sourcing and Lead-Time Reduction under Evolutionary Demand Risk [Q1,A*,FT50,DL] Production and Operations Management, Vol. 23, Issue 12, pp. 2103-2117.

2014 31. **Avanzi, B.**, Purcal, S.

Annuitisation and cross-subsidies in a two-tiered retirement saving system [Q2,A] Annals of Actuarial Science, Vol. 8, Part 2, pp. 234-252.

2013 32. Avanzi, B., Cheung, E. C. K., Wong, B., Woo, J. K. On a periodic dividend barrier strategy in the dual model with continuous monitoring of solvency [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 52, Issue 1, pp. 98–113.

2013 33. Avanzi, B., Bicer, I., de Treville, S., Trigeorgis, L. Real Options at the Interface of Finance and Operations: Exploiting Embedded Supply Chain Real Options to Gain Competitiveness [Q1,A] European Journal of Finance, Vol. 19, Issue 7-8, pp. 760–778.

2012 34. Avanzi, B., Wong, B.

On a mean reverting dividend strategy with Brownian motion [Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 51, Issue 2, pp. 229–238.

2011 35. Avanzi, B., Shen, J., Wong, B.

Optimal dividends and capital injections in the dual model with diffusion [Q1,A,DL] ASTIN Bulletin, Vol. 41, Issue 2, pp. 611-644.

2011 36. **Avanzi, B.**, Cassar, L. C., Wong, B.

Modelling Dependence in Insurance Claims Processes with Lévy Copulas [Q1,A,DL] ASTIN Bulletin, Vol. 41, Issue 2, pp. 575-609.

2010 37. Avanzi. B.

What is it that makes the Swiss annuitise? A description of the Swiss retirement system [n/a,n/a] <u>Australian Actuarial Journal</u>, Vol. 16, Issue 2, pp. 135–162.

38. Avanzi, B. 2009

Strategies for Dividend Distribution: A Review

[Q2,A] North American Actuarial Journal, Vol. 13, Issue 2, pp. 217–251.

39. de Treville, S., Edelson, N. M., Kharkar, A. N., Avanzi, B. 2008 Constructing useful theory: The case of Six Sigma [Q1,C] Operations Management Research, Vol. 1, Issue 1, pp. 15–23.

2008 40. Avanzi, B., Gerber, H. U.

> Optimal dividends in the dual model with diffusion [Q1,A,DL] ASTIN Bulletin, Vol. 38, Issue 2, pp. 653-667.

2007 41. Avanzi, B., Gerber, H. U., Shiu, E. S. W.

Optimal dividends in the dual model

[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 41, Issue 1, pp. 111–123.

Conference publications

2018 1. Avanzi, B., Taylor, G., Wong, B., Xian, A.

> How to proxy the unmodellable: Analysing granular insurance claims in the presence of unobservable or complex drivers

> Proceedings of the Actuaries Institute 2018 General Insurance Seminar (peer reviewed), 12-13 November 2018 (Sydney, Australia)

2016 2. Avanzi, B., Lavender, M., Taylor, G., Wong, B.

On the Impact, Detection and Treatment of Outliers in Robust Loss Reserving

Proceedings of the Actuaries Institute 2016 General Insurance Seminar (peer reviewed), 13-15 November 2016 (Melbourne, Australia)

2010 3. Avanzi, B., Wong, B.

> On a mean reverting dividend strategy with Brownian motion 6th Conference in Actuarial Science & Finance on Samos (Samos, Greece)

4. Avanzi, B., de Treville, S. 2006

Demand Estimation Through Credibility Theory

17th Annual Conference of POMS (Boston, U.S.A.)

5. de Treville, S., Edelson, N. M., Kharkar, A. N., Avanzi, B. 2005 Can we develop theory around Six Sigma? Should we care? 16th Annual Conference of POMS (Chicago, U.S.A.)

6. Boisvert, C., de Treville, S., Oyon, D., Avanzi, B. 2004 The Impact of Performance Measurement Systems on Lead Time Reduction CRITOM Conference (Bocconi University, Italy)

R codes and illustrations

1. Avanzi, B., Taylor, G., Wang, M. CRAN package: SPLICE: Synthetic Paid Loss and Incurred Cost Experience (SPLICE) Simulator https://CRAN.R-project.org/package=SPLICE

2020 2. Avanzi, B., Taylor, G., Wang, M., Wong, B. CRAN package: SynthETIC: an individual insurance claim simulator with feature control

https://CRAN.R-project.org/package=SynthETIC

Other R codes related to published papers, with several reproducible examples, are available from the GitHub page of Agi-Lab.

Websites

2022 1. Avanzi, B.

General Insurance Modelling - AMIII

(website for UniMelb ACTL30007/ACTL90020 - Sections 1 and 2 of the CS2 actuarial syllabus)

2021 2. Avanzi. B.

> Introduction to Actuarial Studies (website for UniMelb ACTL10001)

2021 3. Avanzi, B., Boglioni Beaulieu, G., Lafaye de Micheaux, P., Xian, A., Yang, X. Communicate data with R

Working papers

Recent working papers on arXiv (updated with accepted manuscript versions)

Older working papers on SSRN (not updated)

1. Avanzi, B., Kusch Falden, D., Steffensen, M. 2022 Stable Dividends under Linear-Quadratic Optimization arXiv math.OC 2210.03494

2022 2. Avanzi, B., Li, Y., Wong, B., Xian, A.

> Ensemble distributional forecasting for insurance loss reserving arXiv stat.ME 2206.08541

3. Avanzi, B., Lau, H., Steffensen, M. 2022 Optimal reinsurance under terminal value constraints arXiv math.OC 2203.16108

2022 4. Avanzi, B., Chen, P. Henriksen, L. F. B., Wong, B. On the surplus management of funds with assets and liabilities in presence of solvency requirements arXiv math.OC 2203.05139

2022 5. Avanzi, B., Lavender, M., Taylor, G., Wong, B. Detection and treatment of outliers for multivariate robust loss reserving arXiv stat.ME 2203.03874

2022 6. Avanzi, B., Lavender, M., Taylor, G., Wong, B. On the impact of outliers in loss reserving arXiv stat.ME 2203.00184

2021 7. Avanzi, B., Taylor, G., Wang, M. SPLICE: A Synthetic Paid Loss and Incurred Cost Experience Simulator arXiv Qfin.RM 2109.04058

8. Al-Mudafer, M. T., Avanzi, B., Taylor, G., Wong, B. 2021 Stochastic loss reserving with mixture density neural networks arXiv stat.ME 2108.07924

9. Avanzi, B., Taylor, G., Wang, M., Wong, B. 2020 SynthETIC: an individual insurance claim simulator with feature control arXiv Qfin.RM 2008.05693

2020 10. Avanzi, B., Lau, H.., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Negative Lévy Risk Processes With Fixed Transaction Costs arXiv Math.OC 2004.01838

2020 11. Avanzi, B., Boglioni Beaulieu, G., Lafaye de Micheaux, P., Wong, B. A Counterexample to the Central Limit Theorem for Pairwise Independent Random Variables Having a Common Absolutely Continuous Arbitrary Margin arXiv Math.PR 2003.01350

2019 12. Avanzi, B., Taylor, B., Vu P. A., Wong, B. A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims Re-UNSW Business School Research Paper No. 2019ACTL03

2019 13. Avanzi, B., Taylor, B., Wong, B., Yang, X. A Multivariate Micro-Level Insurance Counts Model With a Cox Process Approach UNSW Business School Research Paper No. 2019ACTL02

2019 14. Avanzi, B., Taylor, B., Wong, B., Xian, A. Inference of counts using Markov-modulated non-homogeneous Poisson processes UNSW Business School Research Paper No. 2019ACTL01

2018 15. **Avanzi, B.**, Lau, H., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Positive Lévy Risk Processes With Fixed Transaction Costs UNSW Business School Research Paper No. 2018ACTL02

2018 16. Avanzi, B., Taylor, B., Vu, P. A., Wong, B. On Unbalanced Data and Common Shock Models in Stochastic Loss Reserving UNSW Business School Research Paper No. 2018ACTL01

2017 17. Avanzi, B., Tu, V., Wong, B. Optimal Dividends Under Erlang(2) Inter-Dividend Decision Times UNSW Business School Research Paper No. 2017ACTL02

2016 18. **Avanzi, B.**, Taylor, B., Wong, B. Common shock models for claim arrays UNSW Business School Research Paper No. 2016ACTL07

2016 19. Avanzi, B., Pérez, J.-L., Wong, B., Yamazaki, K. On optimal joint reflective and refractive dividend strategies in spectrally positive Lévy processes UNSW Business School Research Paper No. 2016ACTL05

2016 20. Avanzi, B., Henriksen, L. F. B., Wong, B. On the distribution of the excedents of funds with assets and liabilities in presence of solvency and recovery requirements UNSW Business School Research Paper No. 2016ACTL03

21. Avanzi, B., Taylor, G., Vu, P. A., Wong, B. 2016 Stochastic Loss Reserving with Dependence: A Flexible Multivariate Tweedie Approach UNSW Business School Research Paper No. 2016ACTL01

2015 22. Avanzi, B., Wong, B., Yang, X. A micro-level claim count model with overdispersion and reporting delays UNSW Business School Research Paper No. 2015ACTL25

2015 23. Avanzi, B., Tu, V., Wong, B.

A note on realistic dividends in actuarial surplus models UNSW Business School Research Paper No. 2015ACTL20

2015 24. Avanzi, B., Gagné, C., Tu, V.

Is Gamma Frailty a Good Model? Evidence from Canadian Pension Funds UNSW Business School Research Paper No. 2015ACTL15

2015 25. **Avanzi, B.**, Taylor, G., Wong, B.

Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations

UNSW Business School Research Paper No. 2015ACTL11

2015 26. **Avanzi, B.**, Tu, V., Wong, B.

On the interface between optimal periodic and continuous dividend strategies in the presence of transaction costs

UNSW Business School Research Paper No. 2015ACTL10

2014 27. Avanzi, B., Tao, J., Wong, B., Yang, X.

Capturing Non-Exchangeable Dependence in Multivariate Loss Processes with Nested Archimedean Lévy Copulas

UNSW Australian School of Business Research Paper No. 2014ACTL05

2013 28. Avanzi, B., Tu, V., Wong, B.

On optimal periodic dividend strategies in the dual model with diffusion UNSW Australian School of Business Research Paper No. 2013ACTL17

UNSW Australian School of Business Research Paper No. 2012ACTL07

2012 29. **Avanzi, B.**, Cheung, E.C.K, Wong, B., Woo, J.K.

On a Periodic Dividend Barrier Strategy in the Dual Model with Continuous Monitoring of Solvency

2012 30. de Treville, S., Schürhoff, N., Trigeorgis, L., **Avanzi, B.**Optimal Sourcing and Lead-Time Reduction Under Evolutionary Demand Risk
University of Lausanne Working Paper

2011 31. Avanzi, B., Cassar, L. C., Wong, B.

Modelling Dependence in Insurance Claims Processes with Lévy Copulas UNSW Australian School of Business Research Paper No. 2011ACTL01

2010 32. de Treville, S., Avanzi, B., Bicer, I., Trigeorgis, L.

Real Options at the Interface of Finance and Operations: Exploiting Embedded Supply Chain Real Options to Gain Competitiveness

UNSW Australian School of Business Research Paper No. 2010ACTL16

2010 33. Avanzi, B., Shen, J., Wong, B.

Optimal dividends and capital injections in the dual model with diffusion UNSW Australian School of Business Research Paper No. 2010ACTL15

2009 34. Avanzi, B., Wong, B.

On a mean reverting dividend strategy with Brownian motion UNSW Australian School of Business Research Paper No. 2009ACTL12

2009 35. Avanzi, B., Purcal, S.

Forced savings and annuitisation with cross-subsidies: a mutation of the beast UNSW Australian School of Business Research Paper No. 2009ACTL09

2009 36. Avanzi, B.

What is it that makes the Swiss annuitize? A description of the Swiss retirement system UNSW Australian School of Business Research Paper No. 2009ACTL06

2008 37. de Treville, S., **Avanzi, B.**, Trigeorgis, L.

**Rethinking Lead Time Reduction Investment: A Real Options Perspective
UNSW Australian School of Business Research Paper No. 2008ACTL16

2008 38. Avanzi, B., Gerber, H. U.

Optimal dividends in the dual model with diffusion

UNSW Australian School of Business Research Paper No. 2008ACTL10

2008 39. Avanzi, B.

A Review of Modern Collective Risk Theory with Dividend Strategies UNSW Australian School of Business Research Paper No. 2008ACTL09

Research Funding

National Competition	ve Grants	
2020 – 2022 Australian Research Council (ARC) Discovery Project DP200101859		
	AUD 310,000 from ARC	
	Extreme Value Theory Approaches to Insurance in a Catastrophic Environment	
	Prof Qihe Tang (UNSW); A/Prof Benjamin Avanzi (University of Melbourne); A/Prof Bernard Wong	
2015 – 2020	(UNSW); A/Prof Jose Blanchet (Stanford) Chief Investigator	
2013 – 2020	Natural Sciences and Engineering Research Council (NSERC) of Canada, CAD 70,000	
	Actuarial methods for assessing diversification effects in insurance	
	Note: Funding for 2016–2020 (CAD 56,000) lapsed due to my return to Australia.	
2013 – 2020	Australian Research Council (ARC) Linkage Project LP130100723	
	AUD 232,449 from ARC, and AUD 88,412 from Industry Partners	
	Modelling claim dependencies for the general insurance industry with economic capital in view: an innovative approach with stochastic processes	
	Dr Benjamin Avanzi (UNSW); Dr Bernard Wong (UNSW); Dr Gregory Taylor (UNSW); Mr Stephen	
	Britt (Insurance Australia Group Ltd); Mr Yusuf Cakan (Suncorp Group Ltd); Mr David Koob (Allianz	
	Australia Ltd)	
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Other Competitive		
2021 – 2024	Co-Partner Investigator (with Rui Zhou from University of Melbourne, and Katrien Antonio and Jan Dhaene from KU Leuven)	
	Global PhD Partnership KU Leuven/Melbourne GPP/21/003, 2 full PhD scholarship with travel	
	budget, and about AUD 50,000 cash support for Partner Investigators	
	VALERIA: Valuation and Advanced Learning methods for Emerging, global Risks In Actuarial science	
2019 - 2019	Chief Investigator (with Pierre Lafaye de Micheaux)	
	Business School and Faculty of Science Silver Star, AUD 20,000	
2017 – 2018	Complex dependence modelling to unravel relationships in Big Data Chief Investigator (with Greg Taylor and Bernard Wong)	
2017 - 2010	Business School Linkage Silver Star, AUD 40,000	
	Quantitative risk management and optimal control for general insurers	
	Partners: Insurance Australia Group Ltd; Suncorp Group Ltd	
2015 – 2015	Chief Investigator (with Greg Taylor and Bernard Wong)	
	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 10,000	
2012 – 2013	General forms of dependency in chain ladder structures Chief Investigator (with Greg Taylor and Bernard Wong)	
2012 2015	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 35,000	
	An innovative approach to stochastic claims reserving with dependence	
2012 – 2012	Chief Investigator	
	Australian School of Business Special Research Grant, AUD 9,000	
2011 – 2011	Towards more realistic dividend strategies in surplus models for risk businesses Chief Investigator (with Bernard Wong)	
2011 – 2011	Australian School of Business Research Grant, AUD 25,000	
	Optimal dividend problems in surplus models with stochastic firm prospects	
2010 - 2011	Chief Investigator (with Bernard Wong)	
	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 20,000	
2000 2000	On the economic value of aggregating dependent portfolios	
2009 – 2009	Chief Investigator (with John Evans) UNSW 2009 International Research Collaboration Scheme, AUD 7,250	
	Cross-country study of social security and superannuation systems in Australia, Switzerland, and the	
	Philippines	
2009 - 2009	Chief Investigator, Australian School of Business Research Grant, AUD 18,000	
	Mathematical modelling of the capital of risk businesses with dividend pay-outs	
Other Euralina		
Other Funding		
2016 – 2016	Network leader, School of Risk and Actuarial Studies "Insurance Risk and Capital" network, seed funding of AUD 5,000.	
	Tunding of AOD 3,000.	

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Supervision			
PhD students supervision			
2023 –	TBA (University of Melbourne and KU Leuven - joint PhD with scholarship, joint supervisor) Position to fill		
2023 –	Gerry Li (UNSW with DP scholarship, external supervisor)		
2022 –	About to start Eric Dong (UNSW with scholarship, external supervisor)		
2022 –	In progress Xingyun (Claire) Tan (University of Melbourne with scholarship, co-supervisor)		
2022 –	In progress Jim (Yanfeng) Li (UNSW with scholarship, external supervisor)		
2021 –	In progress Lorenzo Marchi		
	(KU Leuven, external joint supervisor) In progress		
2021 –	Athibav Chaudhry (University of Melbourne and KU Leuven - joint PhD with scholarship, co-supervisor)		
2019 –	In progress Yunshen Yang (UNSW Scientia Scholar, joint, then external joint supervisor)		
2017 – 2023	In progress Guillaume Boglioni-Beaulieu		
2011 2020	(UNSW with UIPA and Canadian scholarships, joint, then external joint supervisor) Now (tenured) Lecturer at Macquarie University, Sydney		
2016 – 2022	Alan Xian (UNSW with APA, joint, then external supervisor) Dean's Award for Outstanding PhD Theses		
	Now Consultant at Taylor Fry Consulting, Sydney, and Adjunct Fellow at Macquarie University,		
2016 – 2020	Sydney. Ka Wai (Hayden) Lau (UNSW with UIPA, joint supervisor)		
2014 – 2019	Now Pricing Analyst at Insurance Australia Group (IAG), Sydney. Phuong Anh Vu (UdeM and UNSW with APA - joint PhD, joint supervisor)		
	Awarded at UNSW, Awarded at UdeM (with "exceptional" performance) FIAA, CERA now at Munich Re, USA.		
2013 – 2017	Xinda Yang (UNSW with UIPA, joint supervisor) Now Senior Pricing Manager at QBE Insurance, Sydney.		
2013 – 2017	Vincent Tu (UNSW with APA, joint supervisor) FIAA, Now Manager at Taylor Fry Consulting, Sydney.		
MPhil students sup	pervision		
2015 – 2016	Guillaume Boglioni-Beaulieu, with "exceptional" performance (UdeM, joint superv.)		
2014 – 2015	PhD UNSW; Now (tenured) Lecturer at Macquarie University, Sydney Gwendal Combot, with "excellent" performance (UdeM, main supervisor) Quantitative Finance (M2) graduate from École polytechnique, France.		
Masters' Essay stu	Masters' Essay students supervision		
2020 – 2021	Xingyun (Claire) Tan (ACTL90012, University of Melbourne, main supervisor)		
Honours students	supervision		

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2023	Lewis de Felice (University of Melbourne, main supervisor)
2022	Melantha (Chenyi) Wang, Honours Class 1, and the University Medal (UNSW, external supervisor)
	Now at VivCourt Trading, Sydney.
2021	Jim (Yanfeng) Li, Honours Class 1, and the University Medal (UNSW, external supervisor)
	Now PhD student at UNSW.

2021	David Yu, Honours Class 1 (UNSW, external supervisor)
	Now at Insurance Australia Group (IAG), Melbourne.
2020	Muhammed Al-Mudafer, Honours Class 1 (UNSW, external supervisor)
	Now at Insurance Australia Group (IAG), Sydney.
2016	Mark Lavender, Honours Class 1 and the University Medal (UNSW, joint supervisor)
	Now Investment Banking Associate at William Blair, San Francisco (USA).
2015	Alan Xian, Honours Class 1 and the University Medal (UNSW, joint supervisor)
	PhD UNSW, Now Consultant at Taylor Fry Consulting, Sydney, and Lecturer at Macquarie University,
	Sydney.
2014	Clement Yeung, Honours Class 2:1 (UNSW, external supervisor)
	Now Senior Data Scientist at Loan Market, Sydney.
2013	Phuong Anh Vu, Honours Class 1 (UNSW, joint supervisor)
	PhD UNSW and Université de Montréal, FIAA
	Now Manager at Taylor Fry Consulting, Sydney.
2012	Chung-Yu Liu, Honours Class 1 (UNSW, joint supervisor)
	Now Pricing Specialist at Insurance Australia Group (IAG), Sydney.
2012	Vincent Tu, Honours Class 1 (UNSW, joint supervisor)
	PhD UNSW, FIAA; Now Manager at Taylor Fry Consulting, Sydney.
2011	Jamie Tao, Honours Class 1 (UNSW, joint supervisor)
	Now Vice President, APAC Treasury at Jefferies, Hong Kong.
2011	Timothy Yip, Honours Class 1 (UNSW, joint supervisor)
	FIAA, Now Director at Taylor Fry Consulting, Sydney.
2010	Luke Cassar, Honours Class 1 (UNSW, joint supervisor)
	FIAA, Now Senior Consultant at Finity Consulting, Sydney.
2010	Jonathan Shen, Honours Class 1 and the University Medal (UNSW, joint supervisor)
2010	FIAA, Now Head of Data & Analytics at Teachers Health, Sydney.
	Tives, Now Tread of Data & Allarytics at Teachers Treatin, Sydney.

Referee and review activities

Editorial duties

2018 – ASTIN Bulletin, Editor

2018 - Insurance: Mathematics and Economics, Associate Editor

2018 – 2018 ASTIN Bulletin, Member of the Editorial Board

2016 – Risks, Member of the Editorial Board

Journals refereed (Publons)

Operations Research

European Journal of Operational Research Insurance: Mathematics and Economics

ASTIN Bulletin

Scandinavian Actuarial Journal North American Actuarial Journal Journal of Risk and Insurance Annals of Actuarial Science

The Geneva Papers on Risk and Insurance: Issues and Practice

Asia-Pacific Journal of Risk and Insurance

European Actuarial Journal Variance (CAS Publications)

Risks

Mathematical Finance

Statistics and Probability Letters

Journal of Applied Probability / Advances in Applied Probability

Journal of Computational and Applied Mathematics

Journal of Optimization Theory and Applications

SIAM Journal on Control and Optimization

Stochastic Models

Economic Modelling

Expert Systems with Applications

Communications in Statistics - Theory and Methods Applied Stochastic Models in Business and Industry

Filomat

Applied Mathematical Modelling

Mathematical Problems in Engineering

Mathematical Methods in the Applied Sciences

Journal of Inequalities and Applications

IEEE Transactions on Pattern Analysis and Machine Intelligence

International Journal of Information Technology & Decision Making

Intelligent Systems in Accounting, Finance and Management

Discrete Dynamics in Nature and Society

IMA Journal of Management Mathematics

Science China Mathematics

Applied Mathematics - A Journal of Chinese Universities Bulletin of the Malaysian Mathematical Sciences Society

National Competitive Research Grant agencies

Australia: Australian Research Council (ARC): DP, LP, DECRA, NISDRG, FL, and

Canada: National Science and Engineering Research Council (NSERC)

Switzerland: National Science Foundation (SNSF)

Poland: National Science Centre (NSC)

External Promotions

UNSW (Sydney, Australia): 2019 (twice) Macquarie University (Sydney, Australia): 2020

University of Chinese Academy of Sciences (Beijing, China): 2022

Scientific committee of conferences

2020 -	Member of the Advisory Board, One World Actuarial Research Seminar
2020 -	Conference in Actuarial Science & Finance on Samos (Samos, Greece)
2020	Online International Conference in Actuarial science, data science and finance
2018 [Chair]	22nd International Congress on Insurance: Mathematics and Economics
	(Sydney, Australia)
2013	New York Annual Conference of Asia-Pacific Risk and Insurance Association (APRIA)
2012	Seoul Annual Conference of Asia-Pacific Risk and Insurance Association (APRIA)
2011	Tokyo Annual Conference of Asia-Pacific Risk and Insurance Association (APRIA)
2010	Singapore World Risk and Insurance Economics Congress (WRIEC)
2009	Beijing Annual Conference of Asia-Pacific Risk and Insurance Association (APRIA)

Organising committee of conferences

2019	4th Workshop on Risk	· modelling ontimization	on and inference (with a	applications in Finance	Insurance
2013	TUI VVOINSIIOD OII NISK	. IIIOGCIIIIIg, OptiiiiiZatii		applications in initialice,	mountainee

and Superannuation) (Sydney, Australia)

2017 3rd Workshop on Risk: modelling, optimization and inference (with applications in Finance, Insurance

and Superannuation) (Sydney, Australia)

Organising of short events

2022 Uncertainty in decision-making: game-theoretic and machine learning approaches

Speakers: Professor Jose Blanchet (Stanford), Professor Henry Lam (Columbia)

University of Melbourne, 9 December 2022

Miscellaneous reviewing activities

2012 Skipper Award Committee (APRIA) 2009 Skipper Award Committee (APRIA)

PhD jury

2021 Jan.	ARAUJO ACUNA, José Carlos, Tempering and seasonality in non-life insurance modeling, University
	of Lausanne External examiner

2016 Sep. JIN, Can (Ken), Occupation time problem in some insurance risk models, University of Melbourne. External examiner.

2014 Dec. OMIDI-FIROUZI, Hassan, On the design of customized risk measures in insurance, the problem of capital allocation and the theory of fluctuations for Lévy processes, Université de Montréal. Chair.

2014 Oct. RAMLI, Siti Norafidah Mohd, Modelling Multivariate Dependence Structures in Insurance and Credit Risk via Copulas, Macquarie University, Macquarie University. External examiner.

2014 Aug. SIMARD, Clarence, Modélisation du carnet d'ordres limites et prévision de séries temporelles, Uni-

versité de Montréal. Chair.

2014 Mar. FARD Farzad Alavi, Analysis of Pricing Financial Derivatives Under Regime-Switching Economy,

Macquarie University. External examiner.

Academic visits

2022 Dec.	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2021 Jun.	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2020 Feb.	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2019 Aug.	Department of Mathematical Science, University of Copenhagen (Denmark)
2019 Jul.	Institut de Science Financière et d'Assurances, Université Lyon 1 (France)
2019 JunAug	Department of Actuarial Science, University of Lausanne (Switzerland)
2019 Mar.	Department of Mathematical Science, University of Copenhagen (Denmark)
2019 JanFeb.	Institut de Science Financière et d'Assurances, Université Lyon 1 (France)
2018 Feb.	Department of Analytics & Operations, National University of Singapore (Singapore)
2015 Jan.	School of Risk and Actuarial Studies, University of New South Wales (Australia)
2014 July	Department of Statistics and Actuarial Science, University of Hong Kong
2014 Mar.	School of Risk and Actuarial Studies, University of New South Wales (Australia)
2014 Mar.	Centre for Actuarial Studies, University of Melbourne (Australia)
2012 Dec.	Department of Mathematics and Statistics, Université de Montréal (Canada)
2012 June	Department of Statistics and Actuarial Science, University of Hong Kong
2012 Jan.	School of Economics and Political Science, University of St. Gallen (Switzerland)
2012 Jan.	Department of Operations, University of Lausanne (Switzerland)
2010 Nov.	Department of Insurance and Risk Management, The Wharton School, UPENN (U.S.A.)
2010 Nov.	Institute of Insurance Economics, University of St. Gallen (Switzerland)
2010 June	Department of Management, University of Lausanne (Switzerland)
2009 Dec.	School of Actuarial Studies, Université Laval (Québec City, Canada)
2009 Dec.	Department of Mathematics and Statistics, Université de Montréal (Canada)
2009 Dec.	Department of Statistics and Actuarial Science, University of Waterloo (Canada)
2009 June	Department of Actuarial Science, University of Lausanne (Switzerland)

Presentations

Conference Presentations (invited speaker)

2019	Sep.	Stochastic dependence and general insurance capital: from data to models
		Plenary Speaker at 6 th Workshop on "Recent developments in dependence modelling with applications in
		finance and insurance" (Agistri, Greece)
2018	Nov.	Modelling insurance claim counts and reporting delays with Cox processes
		Research School of Finance, Actuarial Studies and Statistics – 2018 Summer Camp. (Bowral, Australia)
2017	Dec.	Modelling insurance claim counts and reporting delays with Cox processes
		UNSW-MacquarieU Workshop on Risk: Modelling, optimization and inference (Sydney, Australia)
2017	Nov.	Correlations between lines of business - Are they real or illusionary?

2017 Nov. Correlations between lines of business - Are they real or illusionary? CAS 2017 Annual Meeting (Anaheim, CA, USA)

2014 July On optimal periodic dividend strategies in the dual model with diffusion Gerber-Shiu Workshop, University of Hong Kong (Hong Kong)

2011 Nov. Modelling Dependence in Insurance Claims Processes with Lévy Copulas Advances in Financial Risk Workshop, Macquarie University (Sydney, Australia)

2010 Dec. Claim dependence modelling with Lévy copulas
International Conference in Applied Statistics and Financial Mathematics (Hong Kong)

Conference Presentations (peer-reviewed submissions)

2023 May	Spoilt for Choice: Dealing with Many Categorical Features in Actuarial Machine Learning
	2023 International Congress of Actuaries
	(joint with Greg Taylor, Melantha Wang, and Bernard Wong)
,	2023 International Congress of Actuaries

2022 July Stochastic Ensemble Loss Reserving
25th International Congress on Insurance: Mathematics and Economics (Online)
(joint with Yanfeng Li, Bernard Wong, and Alan Xian)

2022 July Optimal reinsurance under terminal value constraints
25th International Congress on Insurance: Mathematics and Economics (Online)
(joint with Hayden Lau and Mogens Steffensen)

2022	June	Stochastic Ensemble Loss Reserving 2022 Virtual ASTIN/AFIR Colloquium, June 20-24, 2022 (joint with Yanfeng Li, Bernard Wong, and Alan Xian)
2022	June	Optimal reinsurance under terminal value constraints 2022 Virtual ASTIN/AFIR Colloquium, June 20-24, 2022
2022	May	(joint with Hayden Lau and Mogens Steffensen) Harnessing the power of "The Wisdom of Crowds": How do we optimize the ensembling of different loss reserving models?
2022	May	2022 All-Actuaries Summit: Getting closer, Thinking bigger (Australia) (joint with Yanfeng Li, Bernard Wong, and Alan Xian) An Al-driven Approach to Quantifying Model Error in Loss Reserving Generalised Linear Models
		2022 All-Actuaries Summit: Getting closer, Thinking bigger (Australia) (joint with Greg Taylor, Bernard Wong, and David Yu)
2022	May	SPLICE: Synthetic data generation for loss experience 2022 All-Actuaries Summit: Getting closer, Thinking bigger (Australia) (joint with Greg Taylor, Melantha Wang, and Bernard Wong)
2021	May	Neural Networks in Reserving: how and why are they worth considering? 2021 All-Actuaries Virtual Summit: Thriving in an Age of Extremes (Australia) (joint with M. Al-Mudafer, Greg Taylor, and Bernard Wong)
	Nov.	When (not) to use abstract dependence structures: theoretical and practical considerations 10th Australasian Actuarial Education and Research Symposium (Melbourne, Australia)
2019	·	Inference of counts using Markov-modulated non-homogeneous Poisson processes 23rd International Congress on Insurance: Mathematics and Economics (Munich, Germany)
2019	Apr	A tractable method for unravelling and modelling unobservable or complex dependence drivers (with granular data) IAA Section Colloquium 2019 (Cape Town, South Africa)
2018	June	Hybrid strategies in the presence of fixed transaction costs 10th Conference in Actuarial Science & Finance on Samos (Samos, Greece)
2017	July	Optimal Dividends Under Erlang(2) Inter-Dividend Decision Times 21st International Congress on Insurance: Mathematics and Economics (Vienna, Austria))
2016	Sep	On the distribution of the excedents of funds with assets and liabilities in presence of solvency and recovery requirements 3rd European Actuarial Journal Conference (Lyon, France)
2016	May	On the interface between optimal periodic and continuous dividend strategies in the presence of transaction costs
2015	Dec	9th Conference in Actuarial Science & Finance on Samos (Samos, Greece) Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations
2014	July	7th Australasian Actuarial Education and Research Symposium (Gold Coast, Australia) Claim dependencies in economic capital modeling: The Australian experience 49th Actuarial Research Conference (Santa Barbara, USA)
2013	July	On optimal periodic dividend strategies in the dual model with diffusion 48th Actuarial Research Conference (Philadelphia, USA)
2012	Dec.	On a mean reverting dividend strategy with Brownian motion 5th Australasian Actuarial Education and Research Symposium (Melbourne, Australia)
2012	July	Optimal dividends in a perturbed Cramér-Lundberg model with stochastic prospects and a penalty at ruin 4th International Gerber-Shiu Workshop (Melbourne, Australia)
2012	June	Optimal dividends in a perturbed Cramér-Lundberg model with stochastic prospects and a penalty at ruin 16th International Congress on Insurance: Mathematics and Economics (Hong Kong)
2011	Nov.	What is it that makes the Swiss annuitise? A description of the Swiss retirement system 2011 Australasian Actuarial Education and Research Symposium (Canberra, Australia)
2011	June	Modelling Dependence in Insurance Claims Processes with Lévy Copulas 15th International Congress on Insurance: Mathematics and Economics (Trieste, Italy)
2011	June	Optimal dividends and capital injections in the dual model with diffusion 15th International Congress on Insurance: Mathematics and Economics (Trieste, Italy)
2011	June	Modelling Dependence in Insurance Claims Processes with Lévy Copulas Memorable Actuarial Research Conference (Leuven, Belgium)

2010	June	On a mean reverting dividend strategy with Brownian motion
		6th Conference in Actuarial Science & Finance on Samos (Samos, Greece)
2009	Sep.	Forced savings and annuitisation with cross-subsidies: a mutation of the beast
0000	6	AFIR Colloquium (Munich, Germany)
2009	Sep.	What is it that make the Swiss annuitise? A description of the Swiss retirement system
2000	May	LIFE Colloquium (Munich, Germany) On the level of national retirement savings with annuitisation and cross-subsidies: a two-tiered economic
2009	iviay	model
		13th International Congress on Insurance: Mathematics and Economics (Istanbul, Turkey)
2009	May	What is it that make the Swiss annuitise? A description of the Swiss retirement system
	,	13th International Congress on Insurance: Mathematics and Economics (Istanbul, Turkey)
2008	Oct.	On Optimal Dividend Strategies: Review and Dual Model
		UNSW Actuarial Studies Research Symposium 2008 (Sydney, Australia)
2008	Jul.	A Review of Modern Collective Risk Theory with Dividend Strategies
0007		12th International Congress on Insurance: Mathematics and Economics (Dalian, China)
2007	Jul.	Optimal dividends in the dual model with diffusion
2006	lul	11th International Congress on Insurance: Mathematics and Economics (Piraeus, Greece) Optimal dividends in the dual model
2000	Jui.	10th International Congress on Insurance: Mathematics and Economics (Leuven, Belgium)
2006	Mav	Demand Estimation Through Credibility Theory
	- 3	17th Annual Conference of POMS (Boston, USA)
Acade	emic Se	eminars
2022	Dec	On the mitigation of unwanted discrimination of multiple protected features via distance covariance regu-
		larisation
		2022 UNSW Workshop on Risk and Actuarial Frontiers
2022	Jun	Ensemble distributional forecasting for insurance loss reserving
2022		One World Actuarial Research Seminar
2022	Mar	Optimal reinsurance under terminal value constraints
2021	Nov	Department of Econometrics and Business Statistics, Monash Business School, Melbourne (Australia) Optimal reinsurance under terminal value constraints
2021	1400	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2019	Jul	A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims
		Reserving
		Séminaires L^2 Lyon-Lausanne (ISFA, Lyon)
2019	Jun	Stochastic dependence and general insurance capital: from data to models
		Centre of Actuarial Studies, Department of Economics, University of Melbourne (Australia)
2019	Mar	Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes
0010		Department of Mathematical Science, University of Copenhagen (Denmark)
2019	Feb	Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes
2016	۸۰۰۰	Séminaire Labo, Institut de Science Financière et d'Assurances, Université Lyon 1 (France) On the distribution of the profits of assets-liability funds in presence of regulation
2010	Aug	Macquarie University Actuarial Studies Seminar, Macquarie University (Sydney, Australia)
2015	Dec	Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological
_010	200	considerations
		School of Risk & Actuarial Studies Research Day 2015 (Sydney, Australia)
2015	Apr.	Dépendance et assurance: une histoire de corrélation?
		Club Mathématique de l'Université de Montréal, Montreal (Canada)
2015	Jan.	Actuarial applications of Lévy copulas

Actuarial and Financial Mathematics Seminar, Quantact Lab, Center for Research in Mathematics (CRM),

2014 Mar. On optimal periodic dividend strategies in the dual model with diffusion Centre for Actuarial Studies, University of Melbourne (Australia)

Dividendes et injections de capital dans le modèle dual : Stratégies optimales

Séminaires du Centre de Recherche en Mathématiques, Université de Montréal (Canada)

2012 Dec.

- 2010 Nov. An Analysis of Private Pensions in Switzerland, A Country Where People Choose to Save and then Annuitize Rosen-Huebner-McCahan Seminar, The Wharton School, UPENN (Philadelphia, U.S.A.)
- 2010 Nov. Forced savings and annuitisation: an international perspective University of St. Gallen (Switzerland)
- 2010 Apr. On a mean reverting dividend strategy with Brownian motion UNSW Actuarial Studies Research Seminar (Sydney, Australia)
- 2009 Dec. On a mean reverting dividend strategy with Brownian motion
 Séminaires du Centre de Recherche en Mathématiques, Université de Montréal (Canada)
- 2009 Dec. On a mean reverting dividend strategy with Brownian motion Université Laval (Québec, Canada)
- 2009 Dec. Forced savings and annuitisation with cross-subsidies: a mutation of the beast
 Department of Statistics and Actuarial Science Seminars, University of Waterloo (Canada)
- 2009 Dec. On a mean reverting dividend strategy with Brownian motion

 Department of Statistics and Actuarial Science Seminars, University of Waterloo (Canada)
- 2009 Mar. The demand for retirement annuities and non-mandatory superannuation savings: the case of Switzerland Macquarie University Actuarial Studies Seminar, Macquarie University (Sydney, Australia)
- 2009 Jan. The demand for retirement annuities and non-mandatory superannuation savings: the case of Switzerland International Research Workshop (UNSW, Sydney, Australia)
- 2008 Fev. Optimal dividends in the dual model with diffusion UNSW Actuarial Studies Research Seminar (Sydney, Australia)
- 2006 Dec. Optimal Dividends in the Dual Model Séminaires L^2 Lyon-Lausanne (ISFA, Lyon)

Other attended conferences

- 2022 Nov. 2022 Australasian Actuarial Education and Research Symposium (Canberra, Australia)
- 2019 Mar. Workshop "Fair Valuation in Insurance" (Brussels, Belgium)
- 2016 Jun. CAS Course on Professionalism (Toronto, Canada)
- 2015 Jun. Enterprise Risk Management Symposium (Washington, USA)
- 2015 Jun. The Changing Face of GI, Actuaries Institute (Sydney, Australia)
- 2014 July 16th International Congress on Insurance: Mathematics and Economics (Shanghai, China)
- 2010 Nov. OECD/IOPS Global Forum on Private Pensions, on invitation (Sydney, Australia)
- 2010 Sep. 6th International Longevity Risk and Capital Markets Solutions Conference (Sydney, Australia)
- 2010 Jul. 18th Australian Colloquium of Superannuation Researchers, *Retirement Saving Choices: challenges for individuals, industry and public policy* (Sydney, Australia)
- 2009 Jul. 17th Australian Colloquium of Superannuation Researchers, *Celebrating 100 years of a National Retirement Income System The Challenges Ahead* (Sydney, Australia)
- 2009 Jun. 2b) or not 2b) Conference (Lausanne, Switzerland)
- 2008 Nov. 1st Australasian Actuarial Education and Research Symposium (Sydney, Australia)

TEACHING

Awards	
2016	2015 School of Risk and Actuarial Studies Teaching Innovation Award, for "Use of Learning Catalytics in the Actuarial Program"
2011	Nominated for a 2012 Vice-Chancellor Award for Teaching Excellence
2011	Australian School of Business Teaching Excellence Award, for "Outstanding Technology-Enabled Teaching
	Innovation"
Education	
2017	'Presenting online' (one day), Australia's National Institute of Dramatic Art (NIDA)
2017	'Public Speaking Bootcamp' (one day), Australia's National Institute of Dramatic Art (NIDA)
2009 FL	
Courses taug	h t
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2019 Te	ZZBU 6507 Data Visualisation & Communication – developed but not delivered
	(fully online, Master of Analytics, UNSW)
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2009	S1	ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2009	S1	ACTL 2001 Financial Mathematics (B.Sc., UNSW)
2008	S2	ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2008	S1	Gestion des opérations (B.Sc., University of Lausanne)
2007	S2	Credibility Theory (M.Sc., University of Lausanne)
2007	S1	Gestion des opérations (B.Sc., University of Lausanne)
2005	S2	Laboratory of selected topics in actuarial mathematics (M.Sc., University of Lausanne)
2005	S1	Mathematics of Lead Time (MAS, Bordeaux Business School)

Masters project supervision (ACTL5004)

2016 Ka Wai (Hayden) Lau (UNSW) Now PhD student at UNSW.

Summer Research Scholarships

2019-2020	Melantha (Chenyi) Wang (UNSW)
2019-2020	Simon (Wanzhang) Jing (UNSW)
2018-2019	Wilson Cheng (UNSW)
2016-2017	Guanting Liu (UNSW)
2016-2017	Edward Djizmedjian (UNSW)

INTERNAL ENGAGEMENT AND LEADERSHIP

Awards

The Dean's Distinguished Leadership Award, in recognition of exceptional and sustained contributions to the achievement of the goals of the UNSW School of Business and Strategy 2025.

This award may be given to an individual member of staff who, over a sustained period, has provided meritorious and distinguished leadership that has significantly exceeded the scope and commitment of usual expectations in achieving Business School goals.

Academic engagement and leadership

of Melbourne Program review panel member (2021: 1, 2022: 1) Program review panel chair (2023: 1) Program review panel chair (2020: 1) Program review panel member (2020: 1) Program review panel chair (2020: 1) Program review panel chair (2020: 1) Program review panel chair, (2020: 1) Program review panel chair (2020: 1) Program review panel ch	2021 – 2022	Elected Member, Teaching and Learning Quality Assurance Committee (TALQAC), The University
- Program review panel chair (2023: 1) - Member, Working group on diversifying evidence of teaching effectiveness (2022-2023) Member, Academic Board, The University of Melbourne - Appeals committee member (2020: 1) Elected member, Faculty Board, UNSW Business School, UNSW (representing the Faculty Academic Staff) 2019 – 2019 Member, School of Risk and Actuarial Studies Research Committee, UNSW Chair, UNSW Business School 3+ Reference Group Member, UNSW 3+ Transition Advisory Group 2017 – 2018 Member, UNSW 3+ Engagement Reference Group Member, UNSW 3+ Engagement Reference Group Elected member, Faculty Board, UNSW Business School, UNSW (representing the School of Risk and Actuarial Studies) 2016 – 2017 Chair, Alternative Delivery Modes Committee, School of Risk and Actuarial Studies, UNSW Associate Head of School, School of Risk and Actuarial Studies, UNSW Member, Faculty Education Committee, UNSW Business School, UNSW Member, Faculty Education Committee, UNSW Business School, UNSW Member, Education Focussed roles selection committee, UNSW Business School 2017 – 2017 Member, Education Focussed roles selection committee, UNSW Business School Member, Faculty Board, UNSW Business School, UNSW Member, Education Focussed roles selection committee, UNSW Business School 2014 – 2015 Chair, website committee, Departement of Mathematics and Statistics, UdeM Member, Faculty Board, UNSW Business School of Risk and Actuarial Studies, UNSW Member, The School Advisory Board, School of Risk and Actuarial Studies, UNSW Member, Australian School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuari	2021 2022	
- Program review panel chair (2023: 1) - Member, Working group on diversifying evidence of teaching effectiveness (2022-2023) Member, Academic Board, The University of Melbourne - Appeals committee member (2020: 1) Elected member, Faculty Board, UNSW Business School, UNSW (representing the Faculty Academic Staff) 2019 – 2019 Member, School of Risk and Actuarial Studies Research Committee, UNSW Chair, UNSW Business School 3+ Reference Group Member, UNSW 3+ Transition Advisory Group 2017 – 2018 Member, UNSW 3+ Engagement Reference Group Member, UNSW 3+ Engagement Reference Group Member, UNSW 3+ Engagement Reference Group 2016 – 2017 Elected member, Faculty Board, UNSW Business School, UNSW (representing the School of Risk and Actuarial Studies) 2016 – 2017 Chair, Alternative Delivery Modes Committee, School of Risk and Actuarial Studies, UNSW Associate Head of School, School of Risk and Actuarial Studies, UNSW Member, Faculty Education Committee, UNSW Business School, UNSW Member, Education Focused roles selection committee, UNSW Business School 2017 – 2017 Member, Education Focused roles selection committee, UNSW Business School 2018 – 2017 Member, Faculty Board, UNSW Business School, UNSW Member, Education Focused roles selection committee, UNSW Business School 2018 – 2016 Member, Faculty Board, UNSW Business School, UNSW Member, Education Focused roles selection committee, UNSW Business School 2012 – 2013 Member, Faculty Board, UNSW Business School of Risk and Actuarial Studies, UNSW Member, Faculty Board, Unsw Business School of Risk and Actuarial Studies, UNSW Member, Faculty Board, Unsw Business School of Risk and Actuarial Studies, UNSW Member, Australian School Advisory Board, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Risk and Actuarial Studies, UNSW Postgraduate Research Coordinator, School of Ri		
Member, Academic Board, The University of Melbourne Appeals committee member (2020: 1)		
- Appeals committee member (2020: 1) 2019 - 2019 Elected member, Faculty Board, UNSW Business School, UNSW (representing the Faculty Academic Staff) 2019 - 2019 Member, School of Risk and Actuarial Studies Research Committee, UNSW		- Member, Working group on diversifying evidence of teaching effectiveness (2022-2023)
2019 – 2019 Elected member, Faculty Board, UNSW Business School, UNSW (representing the Faculty Academic Staff) 2019 – 2019 Member, School of Risk and Actuarial Studies Research Committee, UNSW 2017 – 2018 Member, UNSW 3+ Transition Advisory Group 2017 – 2018 Member, UNSW 3+ Transition Advisory Group 2017 – 2018 Member, UNSW 3+ Transition Advisory Group 2017 – 2018 Elected member, Faculty Board, UNSW Business School, UNSW 2016 – 2017 (Chair, Alternative Delivery Modes Committee, School of Risk and Actuarial Studies, UNSW 2015 – 2017 Associate Head of School, School of Risk and Actuarial Studies, UNSW 2015 – 2017 Associate Head of School, School of Risk and Actuarial Studies, UNSW 2015 – 2017 Member, Faculty Education Committee, School of Risk and Actuarial Studies, UNSW 2015 – 2017 Member, School Industry Advisory Board, School of Risk and Actuarial Studies, UNSW 2017 – 2017 Member, School Industry Advisory Board, School of Risk and Actuarial Studies, UNSW 2018 – 2010 Member, Faculty Board, UNSW Business School, UNSW 2019 – 2011 Member, Faculty Board, UNSW Business School, UNSW 2014 – 2015 Chair, website committee, Departement of Mathematics and Statistics, UdeM 2014 – 2015 Member, internationalisation' committee, Departement of Mathematics and Statistics, UdeM 2012 – 2013 Elected chair of the School Plenum, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Elected member of the School Advisory Board, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Honours Coordinator, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Member, Australian School of Business Promotions Committee, UNSW 2019 – 2012 Member, Australian School of Business Fromotions Committee, UNSW 2010 – 2011 Member, Australian School of Business Standing Committee, UNSW 2011 – 2010 Member, Australian School of Business Standing Committee, UNSW 2010 – 2012 Member, Australian School of Business Standing Committee, UNSW 2011 – 2010 Member, Australian School of Business Standing Committee, UNSW 2010 – 2020 Elected member, Faculty Counci	2020 -	Member, Academic Board, The University of Melbourne
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 2012 – 2013 Elected member of the <i>School Advisory Board</i>, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Honours Coordinator, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Honours Coordinator, School of Risk and Actuarial Studies, UNSW 2012 – 2013 Member, <i>Australian School of Business Promotions Committee for Promotion to Senior Lecturer</i>, UNSW 2009 – 2012 Academic representative, <i>Australian School of Business E-learning Committee</i>, UNSW 2009 – 2012 Director, Actuarial Studies Co-op Program of the UNSW 2011 – 2011 Member, <i>ASB Linkage Grant Working Party</i>, UNSW 2007 – 2008 Elected member, Commission of the University of Lausanne Personnel (official legal representative of all (administrative and academic) staff employed by the university) 2006 – 2008 Elected member, Faculty Council, Faculty of Business and Economics of the University of Lausanne 2006 – 2008 Treasurer, <i>Association du Corps Intermédiaire et des Doctorants de l'Université de Lausanne</i> (official representative of the regular (teaching and research) staff that is below the professor level) 2006 – 2008 Member, Committee <i>Enseignement</i> (teaching) of the University of Lausanne 		
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		representative of the regular (teaching and research) staff that is below the professor level)
2006 2000 Manshau Camanitata Dashausha (masanah) a (ula Hai a air a Chaireann		
2000 – 2008 Iviember, Committee Recnerche (research) of the University of Lausanne	2006 – 2008	Member, Committee Recherche (research) of the University of Lausanne

Teaching leadership

Seminars and presentations

- 2022 (2 February) Yellowdig presenter, WCLA PD: Student Engagement Pilot Projects of 2021 (Piazza & YellowDig)
- 2020 (14 September) Panelist, WCLA Symposium: Adapting to Radical Disruptions in Business Education
- 2018 (February) Digital Uplift interview, Business Digital Learning (UNSW Business School, UNSW).
- 2017 (October, 18) ACTL1101 Digital Uplift, School of Risk and Actuarial Studies Digital Uplift Planning (UNSW Business School, UNSW).
- 2016 (February, 25) Assessment Good Practice, School of Risk and Actuarial Studies Learning & Teaching Workshop (UNSW Business School, UNSW).
- 2015 (November, 3) Spotlight on Program Learning Goals in the School of Risk and Actuarial, UNSW Business School Academic's eLearning Showcase & Workshop (UNSW Business School, UNSW).
- 2014 (December, 5) Seminar on the flipped classroom to the FOLIUM team (teaching support) of the University of Montreal as well as some flipped classroom pilot project leaders, University of Montréal, Canada
- 2014 (October, 1) Seminar on how and when to use technology (in particular, tablet PCs and recorded videos) for teaching technical subjects, made to interested members of the Department of Mathematics and Statistics, University of Montréal, Canada
- 2014 (September, 8) Brief presentation on how and when to use technology (in particular, tablet PCs and recorded videos) for teaching technical subjects, made to the Department Assembly, Department of Mathematics and Statistics, University of Montréal, Canada
- 2014 (May, 23) Presentation on how and when to use technology (in particular, tablet PCs and recorded videos) for teaching technical subjects, made to the steering committee of the project *Mathéma-TIC*, Montréal, Canada
- 2013 (August, 16) Member, Large Class Teaching Panel, Fundamentals of University Learning and Teaching (FULT), Learning & Teaching @ UNSW
- 2012 (June, 21) Member, Large Class Teaching Panel, Fundamentals of University Learning and Teaching (FULT), Learning & Teaching @ UNSW
- 2012 (April, 3) Low-tech high-impact teaching strategies for large classes, Connections in Learning and Teaching (Learning & Teaching @ UNSW)
- 2011 (November, 8) *Using videos in teaching: when and how?*, ASB Academics' Showcase of Technology in Teaching (ASB, UNSW)
- 2011 (February, 17) Member, Large Class Teaching Panel, Fundamentals of University Learning and Teaching (FULT), Learning & Teaching @ UNSW
- 2010 (March, 1) Australian School of Business Strategic Retreat, invited for the eLearning component
- 2010 (August, 26) Member, Large Class Teaching Panel, Fundamentals of University Learning and Teaching (FULT), Learning & Teaching @ UNSW
- 2009 (November, 19) Member, Large Class Teaching Panel, Fundamentals of University Learning and Teaching (FULT), Learning & Teaching @ UNSW
- 2009 (November, 18) Recorded interview by Colina Mason (Learning & Teaching @ UNSW) for the sessional staff gateway resource
- 2009 (August, 28) School of Accounting seminar (UNSW), Digital Tablets and Screen Recording
- 2009 (July, 8) ASB Workshop (UNSW), Digital Tablets and Screen Recording

Other

2016 S1 FULT peer observation participant: interested FULT participants can come and observe in my lectures, as well as access the course website.

Other

Formal Mentorship/Coaching			
2022 –	PhD student at the University of Bayreuth, CoMento Program		
2020 -	University of Melbourne academic advising program (about 20 undergraduate students per year)		
2020 - 2020	University of Melbourne level C		
2019 - 2019	UNSW Business School PhD Fellow		
2017 - 2017	1 UNSW Scientia Scholar		
2016 - 2016	1 UNSW Scientia Scholar		
2015 – 2016	1 ECR academic from UNSW Business School		
ECR development			
2022 – 2022	Guest lecture on Research assessment, Actuarial research, and the Publication process		
	ISFA PhD students, Université Bernard, Lyon, France (via Zoom)		
2019 - 2019	Guest lecture on Research assessment, Actuarial research, and the Publication process		
	ISFA PhD students, Université Bernard, Lyon, France (in person)		

EXTERNAL ENGAGEMENT AND LEADERSHIP

Professional appointments (selected)

2021 - 2022	Elected Councillor, Caulfield Junior College
	Convenor, Policy Review and Development Subcommittee
2020 - 2022	Elected Board Member, École Française Melbourne (EFM)
	Vice-President since 2021
2018 - 2019	Non Executive Director, Lycee Condorcet the International French School of Sydney
2014 - 2015	Actuarial consulting, Service de consultation en actuariat (Université de Montréal)
2008 - 2012	Non Executive Director, Fondation Comoedia, Switzerland (group insurance)
2007 - 2008	Founder, Executive Director, Fondation Comoedia, Switzerland (group insurance)
2006 - 2008	Executive Director, Chair, Fondation de prévoyance Artes et Comoedia, Switzerland (pension fund,
	200 employers, 2000 insured)
2004 - 2004	Internship and then consultant, La Suisse Assurances (actuarial department for group life), Lausanne,
	Switzerland
2003 - 2003	Internship, Nestec S.A. (Globe Project, Change management), Vevey, Switzerland
2001 - 2003	Teaching activities in Swiss public schools (mathematics, French, economics, law, accounting, IT)

Professional affiliations

2018 -	Member, Australian Institute of Company Directors (AICD)
2014 -	Academic Member, Casualty Actuarial Society (CAS)
2008 -	Affiliate member, Actuaries Institute of Australia ⁶
2007 -	Member, Swiss Association of Actuaries (full member of IAA)
2009 –	Member, Actuarial Studies in Non-Life Insurance section of IAA (ASTIN)
2008 -	Member, American Risk and Insurance Association (ARIA)
2008 - 2011	Member, Asia-Pacific Risk and Insurance Association (APRIA)

Professional service

2014 -	Member, CAS Academic Central
2009 - 2016	Member, Hachemeister and Michelbacher prizes committee (CAS)
2014 - 2016	Member Data and Technology Working Party (CAS)

In the media

Professional websites and blogs

2021 1. Chen, J., Virtual Summit Shorts: Neural networks in reserving – how and why are they worth considering? Actuaries Digital, 9 June 2021. (Sydney, Australia)

${\sf BusinessThink}$

2019 1. A smarter approach to analysis refines insurance predictions 11 October 2019

2015 2. Are insurance companies holding too much capital?
16 December 2015

 $^{^6\}mbox{Inactive}$ in 2013 and 2014.

Other non academic publications

2020 1. **Avanzi, B.**, Taylor, G., Wang, M., Wong, B. SynthETIC: A simulator of Synthetic Experience Tracking Insurance Claims Kasa Al Blog, 14 September 2020.

2019 2. **Avanzi, B.**, Taylor, G., Wong, B., Xian, A. *How to proxy the unmodellable*

Actuaries Digital, The Magazine of the Actuaries Institute, April 2019. (Sydney, Australia).

2016 3. Avanzi, B., Taylor, G., Wong, B.

Construction of detailed correlation structures across GI business segments
Actuaries Digital, The Magazine of the Actuaries Institute, 14 December 2016. (Sydney, Australia).

4. Avanzi, B., Taylor, G., Wong, B.
 Are correlations real or imagined?
 Actuaries Digital, The Magazine of the Actuaries Institute, 30 September 2015. (Sydney, Australia).

Avanzi, B., Taylor, G., Wong, B.
 Research into claim dependencies: an industry and academic collaboration
 Actuaries, The Magazine of the Actuaries Institute, August issue, pp. 9–11. (Sydney, Australia).

Industry reports

Bothwell, P. T., Kannon M. J., Avanzi, B., Izzo, J. M., Knobloch, S. A., Nichols, R. S., Norris, J. L., Pan, Y., Semenovich, D., Spadola, T. A., Waite, L. M., Yarnell, D. H.
 Data & Technology Working Party Report
 Casualty Actuarial Society Forum, Fall 2016.

2015 2. **Avanzi, B.**, Gagné, C. *Adjustment of CIA Mortality*

Report commissioned by Morneau Shepell (Montréal, Canada).

Industry presentations

2017 Sep. Recent outlier detection methods with illustrations in loss reserving 'Insights' session of the Actuaries Institute (Sydney, Australia)

2016 Nov. On the Impact, Detection and Treatment of Outliers in Robust Loss Reserving Actuaries Institute 'General Insurance Seminar' (Melbourne, Australia)

2016 Oct. Construction of detailed correlation structures across GI business segments 'Insights' session of the Actuaries Institute (Sydney, Australia)

2016 Sep. Non-life stream presentation of the 'Insurance Risk and Capital' network workshop on *Recent advances and open problems in Insurance Risk and Capital regulation*

2016 Apr. Diversification in Insurance: A Capital Question Learn@Lunch (Sydney, Australia)

2016 Apr. Beyond Correlation: Recent Developments in Modelling Claims Dependencies 'Insights' session of the Actuaries Institute (Sydney, Australia)

2015 Oct. *Correlations between insurance lines of business: Illusion or phenomenon?* 'Insights' session of the Actuaries Institute (Sydney, Australia)

Other presentations

2021 Oct. Invited Speaker, 2021 Contact-less Night by Actuarial Students' Society

Events

Organiser, 'Insurance Risk and Capital' network workshop on *Recent advances and open problems in Insurance Risk and Capital regulation*, with Professor Shaun Wang (NTU Singapore) and Robert Thomson (Head of Actuarial services, Australian Prudential Regulation Authority).

Miscellaneous written contributions

2019 Jan. Welcome to new students Finity Actuarial Bulletin

2018 Jan. Welcome to new students Finity Actuarial Bulletin

2016 Jan. Welcome to new students Finity Actuarial Bulletin no 77