Curriculum Vitae

Professor BENJAMIN AVANZI (PhD, Actuary SAA, GAICD, CERA, FIAA)

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Websites:	Main website: http://www.benjaminavanzi.com
	Communicate data with R: https://communicate-data-with-r.netlify.app
	Introduction to actuarial studies (ACTL10001): https://actl10001.netlify.app
	Topics in actuarial studies (ACTL20004/90021): https://topics-actl.netlify.app/
	General insurance modelling (ACTL30007/90020): https://gim-am3.netlify.app
	Australian General Insurance lab (paper codes): https://github.com/agi-lab

Date of CV: 18 April 2025

Professional qualifications

FIAA	Fellow of the Institute of Actuaries of Australia
	Australian Actuaries Institute
CERA	Chartered Enterprise Risk Actuary via the Australian Actuaries Institute
	CERA Global https://ceraglobal.org/
GAICD	Graduate member of the Australian Institute of Company Directors
	Company Director Course (CDC), 2022
Actuary SAA	Fully Qualified Actuary with the Swiss Association of Actuaries
	(Fully recognised within the Actuarial Association of Europe)

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

Academic appointments

2020 -	Professor (Full) of Actuarial Studies, Centre of Actuarial Studies, Department of Economics
2015 – 2020	Faculty of Business and Economics, University of Melbourne, Australia 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

 $^{^3\}mathsf{Formerly}$ 'Australian School of Business'

RESEARCH

Overview of research expertise

I am a Swiss and Australian actuary. My current fields of research are insurance risk and capital, as well as climate resilience. 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,
- the application of machine learning techniques for the enhancement or extension of existing actuarial techniques (such as claims reserving, model error, non discrimination pricing), and
- the modelling of climate risk in an insurance context, as well as financial resilience of individuals and communities after disasters.

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

2024	Prize for Exceptional Distinction in Research : Research Excellence (Level D-E) category, The University of Melbourne Faculty of Business and Economics and Melbourne Business School Deans' Excellence 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: A Synthetic Paid Loss and Incurred Cost Experience Simulator</i> (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 18 April 2025)

Google Scholar: 1500 citations, *h*-index of 20 (since 2020: 672 citations, *h*-index of 16)

Scopus profile: 825 citations, *h*-index of 13

ResearchGate: Research Interest of 678.8 (89%ile of all RG members, 94%ile of all RG "Risk Management and Insurance" members), 1234 citations, *h*-index of 17 (15 when self-citations are excluded)

Web of Science: 760 citations, *h*-index of 12

Books

2025 1. Wüthrich, Mario V., Richman, R., **Avanzi, B.**, Lindholm, M., Mayer, M., Schelldorfer, J., Scognamiglio, S. *Data Science for Actuaries* Published on SSRN, abstract ID 5162304

Submitted journal articles

 Avanzi, B., Dong, E., Laub, P., Wong, B. Distributional Refinement Network: Distributional Forecasting via Deep Learning Under revision | YouTube summary

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.

Where there is an icon an ext to the date, then the paper is an Open Access paper (downloadable for free).

- 2025 2 2. Avanzi, B., Tan, X., Taylor, G., Wong, B. *On the evolution of data breach reporting patterns and frequency in the United States: a cross-state analysis* [Q2,A]⁵ North American Actuarial Journal, in press
- 2024 3. Avanzi, B., Li, Y., Wong, B., Xian, A.
 Ensemble distributional forecasting for insurance loss reserving [Q1,A,DL] Scandinavian Actuarial Journal, Vol. 2024, Issue 9, pp. 971–1012, Awarded 2023 Hachemeister Prize.
- 2024 4. Avanzi, B., De Felice, L.
 Optimal Strategies for the Decumulation of Retirement Savings under Differing Appetites for Liquidity and Investment Risks
 [Q2,B] Decisions in Economics and Finance, in press
- 2024 5. Avanzi, B., Taylor, G., Wang, M., Wong, B.
 Machine learning with high-cardinality categorical features in actuarial applications [Q1,A,DL] <u>ASTIN Bulletin</u>, Vol. 54, pp. 213–238.
- 2024 6 6. Avanzi, B., Lavender, M., Taylor, G., Wong, B. Detection and treatment of outliers for multivariate robust loss reserving [Q1,A] <u>Annals of Actuarial Science</u>, Vol. 18, pp. 102–125.
- 2023 7. Avanzi, B., Lau, H., Steffensen, M. *Optimal reinsurance design under solvency constraints* [Q1,A,DL] <u>Scandinavian Actuarial Journal</u>
- 2023 8. Avanzi, B., Lavender, M., Taylor, G., Wong, B. *On the impact of outliers in loss reserving* [Q2,B] <u>European Actuarial Journal</u>
- 2023 9. Avanzi, B., Kusch Falden, D., Steffensen, M. *Stable Dividends under Linear-Quadratic Optimization* [Q1,A] <u>Quantitative Finance</u>, Vol. 23, Issue 9, pp. 1199–1215
- 2023 10. Avanzi, B., Taylor, G., Wang, M.
 SPLICE: A Synthetic Paid Loss and Incurred Cost Experience Simulator
 [Q1,A] Annals of Actuarial Science (Actuarial Software), Vol. 17, Issue 1, pp. 7–35. Awarded 2022 Highly Commended Paper Prize (IFoA)

 $^{^{5}}$ [Quartile according to Scimago 2022, 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.]

2023	11.	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
2022	12	Al-Mudafer M T Avanzi, B. Taylor G. Wong B.
		Stochastic loss reserving with mixture density neural networks
		[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 105, pp. 144–174
2021	13.	Avanzi, B., Taylor, G., Wang, M., Wong, B.
		SynthEllC: an individual insurance claim simulator with feature control [O1 A* D1] Insurance: Mathematics and Economics, Vol. 100, pp. 296–308
2021	14	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	15.	Avanzi, B., Boglioni Beaulieu, G, Lafaye de Micheaux, P., Ouimet, F., Wong, B.
		A counterexample to the existence of a general central limit theorem for pairwise independent identically distributed random variables
		[Q1,n/a] Journal of Mathematical Analysis and Applications, Vol. 499, Issue 1, 124982
2021	16.	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	17.	Avanzi, B., Lau, H., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Negative Lévy Risk Processes With Fixed Transaction
		Costs
		[Q1,A,DL] Scandinavian Actuarial Journal, Vol. 2021, Issue 8, pp. 645–670
2021	18.	Avanzi, B., Taylor, B., Wong, B., Xian, A.
		Modelling and understanding count processes through a Markov-modulated non-homogeneous Poisson process
		[Q1.A*] European Journal of Operational Research, Vol. 290, Issue 1, pp. 177–195
2021	19.	Avanzi, B., Taylor, B., Vu, P. A., Wong, B.
		On Unbalanced Data and Common Shock Models in Stochastic Loss Reserving
		[Q1,A] <u>Annals of Actuarial Science</u> , Vol. 15, Issue 1, pp. 173–203
2020	20.	Avanzi, B., Lau, H., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Positive Láwy Rick Processes With Fixed Transaction
		Costs
		[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 93, pp. 315–332
2020	21.	Avanzi, B., Taylor, B., Vu P. A., Wong, B.
		A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims Re-
		[Q1, A*, DL] Insurance: Mathematics and Economics, Vol. 93, pp. 50–71
2018	22.	Avanzi, B., Taylor, B., Wong, B.
		Common shock models for claim arrays
		[Q1,A,DL] <u>ASTIN Bulletin</u> , Vol. 48, Issue 3, pp. 1109-1136
2018	23.	Avanzi, B., Tu, V., Wong, B. Ontimal Dividends Under Erlang(2) Inter Dividend Desirien Times
		[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 79, pp. 225-242
2018	24.	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 D1] ASTIN Bulletin Vol. 48 Issue 2 pp. 647–672
2017	25.	Avanzi, B., Pérez, JJ., Wong, B., Yamazaki, K.
2011	20.	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	26.	Avanzi, B., Taylor, G., Vu, P. A., Wong, B.
		IQ1 A* DI Insurance: Mathematics and Economics. Vol. 71, pp. 63–78
		[3-: ;] <u>measures</u> manenatics and <u>reconstitue</u> , for (1) physics (6)

2016	27.	Avanzi, B., Tu, V., Wong, B.
		On the interface between optimal periodic and continuous dividend strategies in the presence of transaction costs
		[Q1,A,DL] <u>ASTIN Bulletin</u> , Vol. 46, Issue 3, pp. 709–746.
2016	28.	Avanzi, B., Wong, B., Yang, X.
		A micro-level claim count model with overdispersion and reporting delays [Q1 A* D1] Insurance: Mathematics and Economics, Vol. 71, pp. 1–14
2016	29	Avanzi, B. Taylor G. Wong B.
2010	29.	Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological
		considerations
		Awarded 2023 Hachemeister Prize
2016	30.	Avanzi, B., Tao, J., Wong, B., Yang, X.
		Capturing Non-Exchangeable Dependence in Multivariate Loss Processes with Nested Archimedean Lévy
		[Q1,A] <u>Annals of Actuarial Science</u> , Vol. 10, Issue 01, pp. 87–117.
2016 🖸	31.	Avanzi, B., Tu, V., Wong, B.
		A note on realistic dividends in actuarial surplus models [O2 B] Bisks, Vol. 4, Issue 4, Number 37
2014	32	Avanzi, B., Tu, V., Wong, B.
		On optimal periodic dividend strategies in the dual model with diffusion
		[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 55, pp. 210–224.
2014	33.	de Treville, S., Schürhoff, N., Trigeorgis, L., Avanzi, B. 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	34.	Avanzi, B., Purcal, S.
		Annuitisation and cross-subsidies in a two-tiered retirement saving system [Q1 A] Annals of Actuarial Science Vol. 8 Part 2 pp. 234–252
2013	35.	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
0010		[Q1,A*,DL] Insurance: Mathematics and Economics, Vol. 52, Issue 1, pp. 98–113.
2013	36.	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	37.	Avanzi, B., Wong, B.
		[Q1,A*,DL] <u>Insurance: Mathematics and Economics</u> , Vol. 51, Issue 2, pp. 229–238.
2011	38.	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	39.	Avanzi, B., Cassar, L. C., Wong, B.
		Modelling Dependence in Insurance Claims Processes with Lévy Copulas
		[Q1,A,DL] <u>ASTIN Bulletin</u> , Vol. 41, Issue 2, pp. 575–609.
2010	40.	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.
2009	41.	Avanzi, B.
		Strategies for Dividend Distribution: A Review [O2 A] North American Actuarial Journal Vol. 13 Jssue 2, pp. 217–251
2008	42	de Treville S Edelson N M Kharkar A N Avanzi R
2000	۲ ۲ .	Constructing useful theory: The case of Six Sigma
		[Q1,C] Operations Management Research, Vol. 1, Issue 1, pp. 15–23.

2008	43.	Avanzi, B. , Gerber, H. U. <i>Optimal dividends in the dual model with diffusion</i> [Q1,A,DL] <u>ASTIN Bulletin</u> , Vol. 38, Issue 2, pp. 653–667.
2007	44.	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.
Confer	ence	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 (neer reviewed) 12-13 November
		2018 (Sydney, Australia)
2016	2.	Avanzi, B., Lavender, M., Taylor, G., Wong, B. <i>On the Impact, Detection and Treatment of Outliers in Robust Loss Reserving</i> Proceedings of the Actuaries Institute <u>2016 General Insurance Seminar</u> (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)
2006	4.	Avanzi, B. , de Treville, S. <i>Demand Estimation Through Credibility Theory</i> 17th Annual Conference of POMS (Boston, U.S.A.)
2005	5.	de Treville, S., Edelson, N. M., Kharkar, A. N., Avanzi, B. <i>Can we develop theory around Six Sigma? Should we care?</i> 16th Annual Conference of POMS (Chicago, U.S.A.)
2004	6.	Boisvert, C., de Treville, S., Oyon, D., Avanzi, B. <i>The Impact of Performance Measurement Systems on Lead Time Reduction</i> CRITOM Conference (Bocconi University, Italy)
R code	es an	d illustrations
2024	1.	Avanzi, B., Ho, W., Li, Y., Wong, B., Xian, A. CRAN package: <i>ADLP: Accident and Development period adjusted Linear Pools for Actuarial Stochastic Reserving</i> https://CRAN.R-project.org/package=ADLP
2021	2.	Avanzi, B. , Taylor, G., Wang, M. CRAN package: <i>SPLICE: Synthetic Paid Loss and Incurred Cost Experience (SPLICE) Simulator</i> https://CRAN.R-project.org/package=SPLICE
2020	3.	Avanzi, B. , Taylor, G., Wang, M., Wong, B. CRAN package: <i>SynthETIC: an individual insurance claim simulator with feature control</i> https://CRAN.R-project.org/package=SynthETIC
Other Agi-La	R co b.	odes related to published papers, with several reproducible examples, are available from the GitHub page of
Websit	es	
2023	1.	Avanzi, B. Topics in Actuarial, Insurance, and Finance (website for UniMelb ACTL20004/ACTL90021 - Sections 1.2 and 5.2 of the CM2 actuarial syllabus)
2022	2.	Avanzi, B. General Insurance Modelling - AMIII (website for UniMelb ACTL30007/ACTL90020 - Sections 1 and 2 of the CS2 actuarial syllabus)
2021	3.	Avanzi, B. Introduction to Actuarial Studies (website for UniMelb ACTL10001)
2021	4.	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)

- Avanzi, B., Tan, X., Taylor, G., Wong, B. On the evolution of data breach reporting patterns and frequency in the United States: a cross-state analysis arXiv q-fin.RM 2310.04786v2
- Avanzi, B., Dong, E., Laub, P., Wong, B. Distributional Refinement Network: Distributional Forecasting via Deep Learning arXiv stat.ML 2406.00998
- 2023 3. Avanzi, B., de Felice, L. Optimal Strategies for the Decumulation of Retirement Savings under Differing Appetites for Liquidity and Investment Risks arXiv econ.GM 2312.14355
- Avanzi, B., Tan, X., Taylor, G., Wong, B. Cyber Insurance Risk: Reporting Delays, Third-Party Cyber Events, and Changes in Reporting Propensity -An Analysis Using Data Breaches Published by U.S. State Attorneys General arXiv q-fin.RM 2310.04786
- Avanzi, B., Taylor, G., Wang, M., Wong, B. Machine Learning with High-Cardinality Categorical Features in Actuarial Applications arXiv stat.ML 2301.12710
- Avanzi, B., Kusch Falden, D., Steffensen, M. *Stable Dividends under Linear-Quadratic Optimization* arXiv math.OC 2210.03494
- 2022 7. Avanzi, B., Li, Y., Wong, B., Xian, A. Ensemble distributional forecasting for insurance loss reserving arXiv stat.ME 2206.08541
- Avanzi, B., Lau, H., Steffensen, M. *Optimal reinsurance design under solvency constraints* arXiv math.OC 2203.16108
- 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 10. Avanzi, B., Lavender, M., Taylor, G., Wong, B. Detection and treatment of outliers for multivariate robust loss reserving arXiv stat.ME 2203.03874
- 2022 11. Avanzi, B., Lavender, M., Taylor, G., Wong, B. On the impact of outliers in loss reserving arXiv stat.ME 2203.00184
- 2021 12. Avanzi, B., Taylor, G., Wang, M. *SPLICE: A Synthetic Paid Loss and Incurred Cost Experience Simulator* arXiv Qfin.RM 2109.04058
- 2021 13. Al-Mudafer, M. T., Avanzi, B., Taylor, G., Wong, B. Stochastic loss reserving with mixture density neural networks arXiv stat.ME 2108.07924
- 2020 14. Avanzi, B., Taylor, G., Wang, M., Wong, B. SynthETIC: an individual insurance claim simulator with feature control arXiv Qfin.RM 2008.05693
- 2020 15. 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 16. 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 17. Avanzi, B., Taylor, B., Vu P. A., Wong, B. A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims Reserving UNSW Business School Research Paper No. 2019ACTL03 2019 18. 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 19. 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 20. 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 21. 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 22. Avanzi, B., Tu, V., Wong, B. Optimal Dividends Under Erlang(2) Inter-Dividend Decision Times UNSW Business School Research Paper No. 2017ACTL02 2016 23. Avanzi, B., Taylor, B., Wong, B. Common shock models for claim arrays UNSW Business School Research Paper No. 2016ACTL07 2016 24. 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 25. 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 26. 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 27. Avanzi, B., Wong, B., Yang, X. 2015 A micro-level claim count model with overdispersion and reporting delays UNSW Business School Research Paper No. 2015ACTL25 2015 28. Avanzi, B., Tu, V., Wong, B. A note on realistic dividends in actuarial surplus models UNSW Business School Research Paper No. 2015ACTL20 29. Avanzi, B., Gagné, C., Tu, V. 2015 Is Gamma Frailty a Good Model? Evidence from Canadian Pension Funds UNSW Business School Research Paper No. 2015ACTL15 2015 30. 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 31. 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 32.	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 33.	Avanzi, B. , Tu, V., Wong, B. <i>On optimal periodic dividend strategies in the dual model with diffusion</i> UNSW Australian School of Business Research Paper No. 2013ACTL17	
2012 34.	Avanzi, B. , Cheung, E.C.K, Wong, B., Woo, J.K. <i>On a Periodic Dividend Barrier Strategy in the Dual Model with Continuous Monitoring of Solvency</i> UNSW Australian School of Business Research Paper No. 2012ACTL07	
2012 35.	de Treville, S., Schürhoff, N., Trigeorgis, L., Avanzi, B. <i>Optimal Sourcing and Lead-Time Reduction Under Evolutionary Demand Risk</i> University of Lausanne Working Paper	
2011 36.	Avanzi, B. , Cassar, L. C., Wong, B. <i>Modelling Dependence in Insurance Claims Processes with Lévy Copulas</i> UNSW Australian School of Business Research Paper No. 2011ACTL01	
2010 37.	de Treville, S., Avanzi, B. , Bicer, I., Trigeorgis, L. <i>Real Options at the Interface of Finance and Operations: Exploiting Embedded Supply Chain Real Options</i> <i>to Gain Competitiveness</i> UNSW Australian School of Business Research Paper No. 2010ACTL16	
2010 38.	Avanzi, B. , Shen, J., Wong, B. <i>Optimal dividends and capital injections in the dual model with diffusion</i> UNSW Australian School of Business Research Paper No. 2010ACTL15	
2009 39.	Avanzi, B. , Wong, B. <i>On a mean reverting dividend strategy with Brownian motion</i> UNSW Australian School of Business Research Paper No. 2009ACTL12	
2009 40.	Avanzi, B. , Purcal, S. <i>Forced savings and annuitisation with cross-subsidies: a mutation of the beast</i> UNSW Australian School of Business Research Paper No. 2009ACTL09	
2009 41.	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 42.	de Treville, S., Avanzi, B. , Trigeorgis, L. <i>Rethinking Lead Time Reduction Investment: A Real Options Perspective</i> UNSW Australian School of Business Research Paper No. 2008ACTL16	
2008 43.	Avanzi, B. , Gerber, H. U. <i>Optimal dividends in the dual model with diffusion</i> UNSW Australian School of Business Research Paper No. 2008ACTL10	
2008 44.	Avanzi, B. A Review of Modern Collective Risk Theory with Dividend Strategies UNSW Australian School of Business Research Paper No. 2008ACTL09	
Research Funding		
National Competitive Grants		

2020 – 2025	Australian Research Council (ARC) Discovery Project DP200101859 AUD 327,198 from ARC <i>Extreme Value Theory Approaches to Insurance in a Catastrophic Environment</i> Prof Qihe Tang (UNSW); A/Prof Benjamin Avanzi (University of Melbourne); A/Prof Bernard Wong (UNSW); A/Prof Jose Blanchet (Stanford)
2015 – 2020	Chief Investigator 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 246,892 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)

Other External Competitive Grants

2024 – 2027	Natural Hazards Research Australia (NHRA) Project T4-A6: Evaluating the Resilient Homes Fund AUD 929,844 (ex GST) cash from NHRA, and AUD 1,290,573 in-kind
	Prof Paula Jarzabkowski, Dr Matthew Mason, Dr Katie Messner, Prof Alicia Rambaldi, Prof Ben- jamin Avanzi
	Industry partners: Insurance Australia Group (IAG) - Mark Leplastrier; Suncorp - JongSok Oh; RACQ - Vanessa Fabre.
2021 – 2026	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
2015 – 2015	Chief Investigator (with Greg Taylor and Bernard Wong)
	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 10,000
	General forms of dependency in chain ladder structures
2012 - 2013	Chief Investigator (with Greg Taylor and Bernard Wong)
	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 35,000
	An innovative approach to stochastic claims reserving with dependence
2010 – 2011	Chief Investigator (with Bernard Wong)
	Australian Actuarial Research Grant, Institute of Actuaries of Australia, AUD 20,000
	On the economic value of aggregating dependent portfolios

Internal Competitive Grants

2019 – 2019	Chief Investigator (with Pierre Lafaye de Micheaux)
	Business School and Faculty of Science Silver Star, AUD 20,000
	Complex dependence modelling to unravel relationships in Big Data
2017 – 2018	Chief Investigator (with Greg Taylor and Bernard Wong)
	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
2012 - 2012	Chief Investigator
	Australian School of Business Special Research Grant, AUD 9,000
	Towards more realistic dividend strategies in surplus models for risk businesses
2011 – 2011	Chief Investigator (with Bernard Wong)
	Australian School of Business Research Grant, AUD 25,000
	Optimal dividend problems in surplus models with stochastic firm prospects
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 Funding

2016 – 2016 Network leader, School of Risk and Actuarial Studies "Insurance Risk and Capital" network, seed funding of AUD 5,000.

Supervision

PhD students supervision

2024 –	Ho Ming Lee (University of Melbourne and KU Leuven - joint PhD with scholarship, main supervisor) In progress
2023 –	Gerry (Zherui) Li (UNSW with DP scholarship, external supervisor)
2022 –	Eric (Tian) Dong (UNSW with scholarship, external supervisor)
2022 –	Xingyun (Claire) Tan (University of Melbourne with scholarship, co-supervisor)
2022 –	Jim (Yanfeng) Li (UNSW with scholarship, external supervisor)
2021 -	Athibay Chaudhry
	(University of Melbourne and KU Leuven - joint PhD with scholarship, co-supervisor)
2019 – 2024	Yunshen Yang (UNSW Scientia Scholar, joint, then external joint supervisor) Now Post-Doctoral researcher at UNSW
2017 – 2023	Guillaume Boglioni-Beaulieu
	(UNSW with UIPA and Canadian scholarships, joint, then external joint supervisor)
	Now Lecturer at Macquarie University, Sydney
2016 - 2022	Alan Xian (UNSW with APA, joint, then external supervisor)
	Dean's Award for Outstanding PhD Theses
	FIAA, Now Consultant at Taylor Fry Consulting, and Lecturer at Macquarie University, Sydney.
2016 - 2020	Hayden (Ka Wai) Lau (UNSW with UIPA, joint supervisor)
	Now Senior Pricing Analyst at Insurance Australia Group (IAG), Sydney.
2014 - 2019	Phuong Anh Vu (UdeM and UNSW with APA - joint PhD, joint supervisor)
	Awarded at UNSW, Awarded at UdeM (with "exceptional" performance)
	FIAA, CERA, FCAS, Now Actuary at Munich Re America, New York.
2013 – 2017	Xinda Yang (UNSW with UIPA, joint supervisor)
	Now Senior Pricing Manager at QBE Insurance, Sydney.
2013 – 2017	Vincent (Wei) Tu (UNSW with APA, joint supervisor)
	FIAA, Now Manager at Taylor Fry Consulting, Sydney.

MPhil students supervision

2015 - 2016	Guillaume Boglioni-Beaulieu, with "exceptional" performance (UdeM, joint superv.)
	PhD UNSW; Now Lecturer at Macquarie University, Sydney
2014 - 2015	Gwendal Combot, with "excellent" performance (UdeM, main supervisor)
	Quantitative Finance (M2) graduate from École polytechnique, France.

Masters' Essay students supervision

2025 – 2025	Yagebu Xie (ACTL90012, University of Melbourne, main supervisor)
2023 - 2024	Matthew Lambrianidis (ACTL90012, University of Melbourne, main supervisor)
2020 – 2021	Xingyun (Claire) Tan (ACTL90012, University of Melbourne, main supervisor) Now PhD student at the University of Melbourne.

Honours students supervision

2023	Lewis de Felice, Honours Class 1, Actuarial Studies Honours Medal (University of Melbourne, main
	supervisor)
	Now Actuarial Consultant at KPMG.
2022	Melantha (Chenyi) Wang, Honours Class 1, and the University Medal (UNSW, external supervisor)
	Now Trader 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 Graduate Trader at VivCourt Trading, Sydney.
2020	Muhammed Al-Mudafer, Honours Class 1 (UNSW, external supervisor)
	FIAA; Now at nib health funds, Sydney.
2016	Mark Lavender, Honours Class 1 and the University Medal (UNSW, joint supervisor)
	Now Investment Banking Vice President at William Blair, San Francisco (USA).
2015	Alan Xian, Honours Class 1 and the University Medal (UNSW, joint supervisor)
	PhD UNSW, FIAA
	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, CERA, FCAS
	Now Actuary at Munich Re America, New York.
2012	Chung-Yu Liu, Honours Class 1 (UNSW, joint supervisor)
	Now Data Scientist 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)
	FIAA, Now Head of Data & Analytics at Teachers Health, 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 - 2023	<i>Risks</i> , Member of the Editorial Board

Journals refereed (Web of Science records)

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 Japanese Journal of Statistics and Data Science 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 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), 2024 Macquarie University (Sydney, Australia): 2020 University of Chinese Academy of Sciences (Beijing, China): 2022

Scientific committee of conferences

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Organising committee of conferences

2019	4th Workshop on Risk: modelling, optimization and inference (with applications in Finance, Insurance 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

D jury		
2024	Dec.	ARANDJELOVIĆ Aleksandar, Theory of Neural Networks with Applications in Finance, Insurance
		and Climate-Economy Modelling, Macquarie University. External examiner.
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. External examiner.
2014	Aug.	SIMARD, Clarence, Modélisation du carnet d'ordres limites et prévision de séries temporelles, Uni-
	U U	versité de Montréal. Chair.
2014	Mar.	FARD Farzad Alavi, Analysis of Pricing Financial Derivatives Under Regime-Switching Economy
_0	a.i	Maguaria University External examinar
		Macquarie Oniversity. External examiner.

Academic visits

2024	Jul.	UQ Business School, University of Queensland, Brisbane (Australia)
2024	Feb.	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2023	Sep.	Department of Mathematical Science, University of Copenhagen (Denmark)
2023	Sep.	Bayes Business School, London (United Kingdom)
2022	Dec.	School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2022	Nov.	Department of Mathematical Science, University of Copenhagen (Denmark)
2022	Feb.	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?
- 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	Sep	Fairness through regularization: an approach to mitigate group disparities for multiple protected features
		8 th Workshop on "Recent Developments in Dependence Modelling with Applications in Finance, Insurance
		and Pensions" (Agistri, Greece)
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)
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
		(joint with Hayden Lau and Mogens Steffensen)
2022	May	Harnessing the power of "The Wisdom of Crowds": How do we optimize the ensembling of different loss reserving models?
		2022 All-Actuaries Summit: Getting closer, Thinking bigger (Australia)
		(joint with Yanfeng Li, Bernard Wong, and Alan Xian)
2022	May	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)
2019	Nov.	When (not) to use abstract dependence structures: theoretical and practical considerations
		10th Australasian Actuarial Education and Research Symposium (Melbourne, Australia)
2019	July	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)
2018	June	IAA Section Colloquium 2019 (Cape Town, South Africa) 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
0015		9th Conference in Actuarial Science & Finance on Samos (Samos, Greece)
2015	Dec	Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological
		considerations
		(th Australasian Actuarial Education and Research Symposium (Gold Coast, Australia)
2014	July	Claim dependencies in economic capital modeling: The Australian experience
0010		49th Actuarial Research Conference (Santa Barbara, USA)
2013	July	On optimal periodic dividend strategies in the dual model with diffusion
0010	D	48th Actuarial Research Conference (Philadelphia, USA)
2012	Dec.	Un a mean reverting dividend strategy with Brownian motion
2012	L.L.	Stri Australasian Actuarial Education and Research Symposium (Melbourne, Australia)
2012	July	Ath International Carbor Shiu Workshop (Molbourne, Australia)
2012	luna	Antimal dividanda in a particular Cramér Lundharg model with stachastic prospects and a penalty at ruin
2012	June	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	NOV.	2011 Australasian Actuarial Education and Research Symposium (Canherra Australia)
2011	lune	Modelling Dependence in Insurance Claims Processes with Lévy Conulas
2011	June	15th International Congress on Insurance: Mathematics and Economics (Trieste, Italy)
2011	June	Optimal dividends and capital injections in the dual model with diffusion
	ouno	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
		AFIR Colloquium (Munich, Germany)
2009	Sep.	What is it that make the Swiss annuitise? A description of the Swiss retirement system
		LIFE Colloquium (Munich, Germany)
2009	May	On the level of national retirement savings with annuitisation and cross-subsidies: a two-tiered economic
		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
	0	13th International Congress on Insurance: Mathematics and Economics (Istanbul, Turkey)
2008	Oct.	On Optimal Dividend Strategies: Review and Dual Model
2000		UNSW Actuarial Studies Research Symposium 2008 (Sydney, Australia)
2008	Jul.	A Review of Wodern Collective Risk Theory with Dividend Strategies
2007	11	Ontime dividende in the duel model with diffusion
2007	Jui.	11th International Congress on Insurance: Mathematics and Economics (Diracus, Crosse)
2006	hul	Ontimal dividends in the dual model
2000	Jui.	10th International Congress on Insurance: Mathematics and Economics (Leuven, Relgium)
2006	Mav	Demand Estimation Through Credibility Theory
-	5	17th Annual Conference of POMS (Boston, USA)

Academic Seminars

2023	Sep	Fairness through regularization: an approach to mitigate group disparities for multiple protected features Bayes Business School Seminars (London, UK)
2022	Dec	On the mitigation of unwanted discrimination of multiple protected features via distance covariance regu- larisation
2022	Jun	Ensemble distributional forecasting for insurance loss reserving One World Actuarial Research Seminar
2022	Mar	Optimal reinsurance under terminal value constraints Department of Econometrics and Business Statistics, Monash Business School, Melbourne (Australia)
2021	Nov	Optimal reinsurance under terminal value constraints School of Risk and Actuarial Studies, UNSW Sydney (Australia)
2019	Jul	A Multivariate Evolutionary Generalised Linear Model Framework with Adaptive Estimation for Claims Reserving
2019	Jun	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models
2019	Mar	Centre of Actuarial Studies, Department of Economics, University of Melbourne (Australia) Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes Department of Mathematical Science, University of Copenhagen (Depmark)
2019	Feb	Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes Séminaire Labo, Institut de Science Financière et d'Assurances, Université Lyon 1 (France)
2016	Aug	On the distribution of the profits of assets-liability funds in presence of regulation 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 considerations
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.	Montreal (Canada) On optimal periodic dividend strategies in the dual model with diffusion
2012	Dec.	Centre for Actuarial Studies, University of Melbourne (Australia) Dividendes et injections de capital dans le modèle dual : Stratégies optimales
2010	Nov.	An Analysis of Private Pensions in Switzerland, A Country Where People Choose to Save and then Annuitize Rosen-Huebner-McCaban Seminar, The Wharton School, JJPENN (Philadelphia, JJSA)
2010	Nov.	Forced savings and annuitisation: an international perspective
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 (Svdnev. 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
Education	
2017	Presenting online (one day), Australia's National Institute of Dramatic Art (NIDA)
2017 2000 E	Fublic Speaking Boolcamp (one day), Australia's National Institute of Dramatic Art (NDA)
2009 F	Foundations of Oniversity Learning and Teaching (nive days), Oniversity of New South Wales
Courses taug	ght
2024 S	2 ACTL 90021 Topics in Insurance and Finance (M.Sc., University of Melbourne)
2024 S	2 ACTL 20004 Topics in Actuarial Studies (B.Sc., University of Melbourne)
2024 S	1 ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2024 S	1 ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2023 S	2 ACTL 90021 Topics in Insurance and Finance (M.Sc., University of Melbourne)
2023 S	2 ACTL 20004 Topics in Actuarial Studies (B.Sc., University of Melbourne)
2023 S	1 ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2023 S	1 ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2022 S	1 ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2022 S	ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2021 S	ACTL 10001 Introduction to Actuarial Studies (B.Sc., University of Melbourne)
2021 S	ACTL 2000Z Astronomic Modelling (M.Sc., University of Melbourne)
2021 5	ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2020 5	ACTE 10001 Introduction to Actuarial Studies (D.Sc., University of Melbourne)
2020 3	1 ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2020 S	77811 6507 Data Visualization & Communication - developed but not delivered
2019 1	(fully online Master of Analytics UNISM)
2010 T	α ΔCTL 1101 Introduction to Actuarial Studies (R Sc. LINSW)
2019 li	Actuarial Journals and the Publishing Process (PhD University of Lyon 1)
2019 5	2 ACTI 1101 Introduction to Actuarial Studies (B Sc. UNSW)
2018 S	ACTL 4003/5003 Research Methods in Actuarial Science (Honours and HDR, UNSW)
2017 S	2 ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2017 S	2 ACTL 4003/5003 Research Methods in Actuarial Science (Honours and HDR, UNSW)
2016 S	2 ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2016 S	1 ACTL 3141 Actuarial Statistics (B.Sc., UNSW)
2015 S	2 ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2015 S	2 ACTL 3162 Insurance Risk Models (B.Sc., UNSW)
2014 F	all ACT3284 Modèles en assurances IARD (B.Sc., Université de Montréal)
2014 F	all ACT3241 Théorie du Risque (B.Sc., Université de Montréal)
2013 S	2 ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2013 S	2 ACTL 3003 Insurance Risk Models (B.Sc., UNSW)
2013 S	1 ACTL 5104 Actuarial Statistics (M.Sc., UNSW)
2013 S	1 ACTL 3001 Actuarial Statistics (B.Sc., UNSW)
2012 S	2 ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2012 S	2 ACTL 3003 Insurance Risk Models (B.Sc., UNSW)
2011 S	2 ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2011 S	2 ACTL 3003 Insurance Risk Models (B.Sc., UNSW)
2011 S	1 ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2011 S	ACTL 2001 Financial Mathematics (B.Sc., UNSW)
2010 S	S ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2010 S	S ACTE 2001 Financial Mathematics (B.Sc., UNSW)

- 2010 S1 ACTL 5102 Financial Mathematics (M.Sc., UNSW)
- 2010 S1 ACTL 2001 Financial Mathematics (B.Sc., UNSW)
- 2009 S2 ACTL 4003/5003 Research Topics in Actuarial Science (Honours and HDR, UNSW)
- 2009 S2 ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
- 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

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

CURRICULUM VITAE 21

INTERNAL ENGAGEMENT AND LEADERSHIP

Awards

2018 **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

2021 – 2022	Elected Member, Teaching and Learning Quality Assurance Committee (TALQAC), The University of Melbourne
	– Program review panel member (2021: 1, 2022: 1)
	– Program review panel chair (2023: 1)
	– Member. Working group on diversifying evidence of teaching effectiveness (2022-2023)
2020 –	Member, Academic Board, The University of Melbourne
	– 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
2017 – 2018	Chair, UNSW Business School 3+ Reference Group
2017 - 2018	Member, UNSW 3+ Transition Advisory Group
2017 – 2018	Member, UNSW 3+ Engagement Reference Group
2017 – 2018	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
2015 – 2017	Associate Head of School, School of Risk and Actuarial Studies, UNSW
2015 – 2017	Chair, Learning & Teaching Committee, School of Risk and Actuarial Studies, UNSW
2015 – 2017	Member, Faculty Education Committee, UNSW Business School, UNSW
2015 – 2017	Member, School Industry Advisory Board, School of Risk and Actuarial Studies, UNSW
2017 – 2017	Member, Education Focussed roles selection committee, UNSW Business School
2015 – 2016	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	Postgraduate Research Coordinator, 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 for Promotion to Senior Lecturer, UNSW
2009 - 2012	Academic representative, Australian School of Business E-learning Committee, UNSW
2009 - 2012	Director, Actuarial Studies Co-op Program of the UNSW
2011 – 2011	Member, ASB Linkage Grant Working Party, UNSW
2010 – 2010	Member, Australian School of Business Standing Committee, UNSW
2007 – 2008	Elected member, Commission of the University of Lausanne Personnel (official legal representative
2006 2000	of all (administrative and academic) staff employed by the university
2000 - 2008	Elected member, Faculty Council, Faculty of Business and Economics of the University of Lausanne
2000 - 2008	reasoner, Association au Corps intermediaire et des Doctorants de l'Universite de Lausanne (official
2006 - 2000	Member Committee Encoignement (teaching) of the University of Lausanne
2000 - 2000	Member, Committee Enseignement (recearch) of the University of Lausanne
2000 - 2000	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 (external)

- 2023 2023 Guest lecture on how to be a good reviewer (from an Editor's perspective) MQBS Meet the Academic Seminar Series - Session 5: How to become a good reviewer... Macquarie Business School PhD Students, Sydney, Australia (via Zoom)
 2022 – 2022 Guest lecture on Research assessment. Actuarial research, and the Publication process
- 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)

2023 – 2026	Non-Executive Director, Management Board of the Theatre Royal (Hobart, Tasmania)
	Member, then Chair of the Finance, Audit, and Risk Committee (FRAC)
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	Consultant, La Suisse Assurances (actuarial department for group life), Lausanne, Switzerland

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

Press

2024 1. Liu, Q., *As international student numbers rise, calls for urgent reform on pregnancy health cover* The Citizen, 31 January 2024.

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)

BusinessThink

- 2019 1. A smarter approach to analysis refines insurance predictions 11 October 2019
 2015 2. Are insurance companies holding too much capital?
- 2015 2. Are insurance companies holding too much capital?16 December 2015

Other non academic publications

 Avanzi, B., De Felice, L. *Towards Optimising the Decumulation of Retirement Savings* Actuaries Digital, The Magazine of the Actuaries Institute, November 2024. (Sydney, Australia).

⁶Inactive in 2013 and 2014.

2020	2.	Avanzi, B. , Taylor, G., Wang, M., Wong, B. <i>SynthETIC: A simulator of Synthetic Experience Tracking Insurance Claims</i> Kasa Al Blog, 14 September 2020.
2019	3.	Avanzi, B. , Taylor, G., Wong, B., Xian, A. <i>How to proxy the unmodellable</i> Actuaries Digital, The Magazine of the Actuaries Institute, April 2019. (Sydney, Australia).
2016	4.	Avanzi, B. , Taylor, G., Wong, B. <i>Construction of detailed correlation structures across GI business segments</i> Actuaries Digital, The Magazine of the Actuaries Institute, 14 December 2016. (Sydney, Australia).
2015	5.	Avanzi, B. , Taylor, G., Wong, B. <i>Are correlations real or imagined?</i> Actuaries Digital, The Magazine of the Actuaries Institute, 30 September 2015. (Sydney, Australia).
2014	6.	Avanzi, B. , Taylor, G., Wong, B. <i>Research into claim dependencies: an industry and academic collaboration</i> Actuaries, The Magazine of the Actuaries Institute, August issue, pp. 9–11. (Sydney, Australia).
Indus	try re	eports
2016	1.	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. <i>Data & Technology Working Party Report</i> Casualty Actuarial Society Forum, Fall 2016.
2015	2.	Avanzi, B. , Gagné, C. <i>Adjustment of CIA Mortality</i> Report commissioned by Morneau Shepell (Montréal, Canada).
Indus	try p	resentations
2017	Sep.	<i>Recent outlier detection methods with illustrations in loss reserving</i> '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 <i>Recent advances and</i> 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

2016 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