Curriculum Vitae

BENJAMIN AVANZI

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

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

Date of CV: August 2022

Education

2008	Ph.D.	University of Lausanne, Faculty of Business and Economics (HEC Lausanne), Actuarial Science
		(supervisor: Prof. Hans U. Gerber)
2005	Lic.	University of Lausanne, Faculty of Business and Economics (HEC Lausanne), Business, major in
		Actuarial Science
	CAS	Casualty Actuarial Society exams: 1, 2, 3F, 4, 5, C1, C2, S, VE, VF, COP
	SOA	Society of Actuaries associateship exams: 3 VEEs, P, FM, M (MLC & MFE), C, APC
		Society of Actuaries fellowship exams: GIINT, GIRR

Academic appointments

2020 –	Professor of Actuarial Studies, Centre of Actuarial Studies, Department of Economics
2017 – 2018	Faculty of Business and Economics, University of Melbourne, Australia 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

 $^{^3}$ Formerly '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

Taylor Fry General Insurance Seminar Silver Prize, awarded by an independent panel for the paper How to proxy the unmodellable: Analysing granular insurance claims in the presence of unobservable or complex drivers (Australian Actuaries Institute General Insurance Seminar, November 2019)

2018)

Hachemeister Prize, awarded by the Casualty Actuarial Society (CAS) for the paper *Correlations* between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations (2016, ASTIN Bulletin, 46:2)

Publications

2017

Metrics (as of August 2022)

Google Scholar: 1168 citations, h-index of 16 (since 2017: 683 citations, h-index of 14)

Scopus profile: 639 citations, h-index of 11

ResearchGate: RG Score of 23.99 (80 %ile), Research Interest of 567.7 (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

2022 1. **Avanzi, B.**, Kusch Falden, D., Steffensen, M. Stable Dividends under Linear-Quadratic Optimization

2022 2. **Avanzi, B.**, Li, Y., Wong, B., Xian, A. *Ensemble distributional forecasting for insurance loss reserving* Submitted

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

2022 3. **Avanzi, B.**, Lau, H., Steffensen, M.

Optimal reinsurance under terminal value constraints
Submitted

- 4. **Avanzi, B.**, Lavender, M., Taylor, G., Wong, B.

 Detection and treatment of outliers for multivariate robust loss reserving
 Submitted
- Avanzi, B., Lavender, M., Taylor, G., Wong, B.
 On the impact of outliers in loss reserving
 Submitted

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.

- 6. **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

 [Q1,A]⁵ Scandinavian Actuarial Journal, in press
- Avanzi, B., Taylor, G., Wang, M.
 SPLICE: A Synthetic Paid Loss and Incurred Cost Experience Simulator [Q2,A] Annals of Actuarial Science (Actuarial Software), in press
- 8. Al-Mudafer, M. T., **Avanzi, B.**, Taylor, G., Wong, B. Stochastic loss reserving with mixture density neural networks
 [Q1,A*] Insurance: Mathematics and Economics, Vol. 105, pp. 144–174
- Avanzi, B., Taylor, G., Wang, M., Wong, B.
 SynthETIC: an individual insurance claim simulator with feature control [Q1,A*] Insurance: Mathematics and Economics, Vol. 100, pp. 296–308
- 2021 10. **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 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
 [Q1,n/a] Journal of Mathematical Analysis and Applications, Vol. 499, Issue 1, 124982
- 2021 12. **Avanzi, B.**, Taylor, G., Wong, B., Yang, X.

 On the modelling of multivariate counts with Cox processes and dependent shot noise intensities
 [Q1,A*] Insurance: Mathematics and Economics, Vol. 99, pp. 9–24
- 2021 13. Avanzi, B., Lau, H.., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Negative Lévy Risk Processes With Fixed Transaction Costs [Q2,A] Scandinavian Actuarial Journal, Vol. 2021, Issue 8, pp. 645–670
- 2021 14. 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 15. 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 16. Avanzi, B., Lau, H.., Wong, B. Optimal Periodic Dividend Strategies for Spectrally Positive Lévy Risk Processes With Fixed Transaction Costs [Q1,A*] Insurance: Mathematics and Economics, Vol. 93, pp. 315–332

⁵[Quartile according to Scimago 2021, Journal rank according to the latest ABDC 2019 list]

2020 17. Avanzi, B., Taylor, B., Vu P. A., Wong, B.

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

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

2018 18. Avanzi, B., Taylor, B., Wong, B.

Common shock models for claim arrays

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

2018 19. Avanzi, B., Tu, V., Wong, B.

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

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

2018 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

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

2017 21. Avanzi, B., Pérez, J.-L., Wong, B., Yamazaki, K.

On optimal joint reflective and refractive dividend strategies in spectrally positive Lévy models [O1 A*] Insurance: Mathematics and Economics, Vol. 72, pp. 148–162

[Q1,A*] Insurance: Mathematics and Economics, Vol. 72, pp. 148–162.

2016 22. **Avanzi, B.**, Taylor, G., Vu, P. A., Wong, B.

Stochastic Loss Reserving with Dependence: A Flexible Multivariate Tweedie Approach

[Q1,A*] Insurance: Mathematics and Economics, Vol. 71, pp. 63–78.

2016 23. Avanzi, B., Tu, V., Wong, B.

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

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

2016 24. **Avanzi, B.**, Wong, B., Yang, X.

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

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

2016 25. **Avanzi, B.**, Taylor, G., Wong, B.

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

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

2016 26. **Avanzi, B.**, Tao, J., Wong, B., Yang, X.

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

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

2016 27. **Avanzi, B.**, Tu, V., Wong, B.

A note on realistic dividends in actuarial surplus models

[Q2,B] Risks, Vol. 4, Issue 4, Number 37

2014 28. **Avanzi, B.**, Tu, V., Wong, B.

On optimal periodic dividend strategies in the dual model with diffusion

[Q1,A*] Insurance: Mathematics and Economics, Vol. 55, pp. 210–224.

2014 29. de Treville, S., Schürhoff, N., Trigeorgis, L., Avanzi, B.

Optimal Sourcing and Lead-Time Reduction under Evolutionary Demand Risk

[Q1,A*,FT50] Production and Operations Management, Vol. 23, Issue 12, pp. 2103–2117.

2014 30. 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 31. 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*] Insurance: Mathematics and Economics, Vol. 52, Issue 1, pp. 98–113.

[QZ], (] <u>modulation traditional and Zoomonico</u>, (on oz) too

2013 32. 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 33. Avanzi, B., Wong, B.

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

2011 34. Avanzi, B., Shen, J., Wong, B.

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

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

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

2010 36. Avanzi, B.

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

37. **Avanzi. B.** 2009

Strategies for Dividend Distribution: A Review

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

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

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

2007 40. Avanzi, B., Gerber, H. U., Shiu, E. S. W.

Optimal dividends in the dual model

[Q1,A*] <u>Insurance: Mathematics and Economics</u>, 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)

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

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.)

2004 6. Boisvert, C., de Treville, S., Oyon, D., Avanzi, B.

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. 2021

> 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)

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)

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

2022 2. **Avanzi, B.**, Li, Y., Wong, B., Xian, A. *Ensemble distributional forecasting for insurance loss reserving* arXiv stat.ME 2206.08541

2022 3. **Avanzi, B.**, Lau, H., Steffensen, M. *Optimal reinsurance under terminal value 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

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

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

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

2020 9. **Avanzi, B.**, Taylor, G., Wang, M., Wong, B. *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 Reserving

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

2016 21. Avanzi, B., Taylor, G., Vu, P. A., Wong, B.

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

- 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
 UNSW Australian School of Business Research Paper No. 2012ACTL07
- 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 Competit	cive 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
	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)
Othor Commetitive	,
Other Competitive 2021 – 2024	Co-Partner Investigator (with Rui Zhou from University of Melbourne, and Katrien Antonio and Jan
2021 2021	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 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
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
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
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
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.
	runding of AOD 3,000.

Supervision

PhD	students	supervision

hD students supe	ervision
2022 –	TBA (UNSW with DP scholarship, external joint supervisor) Position to fill
2022 –	Eric Dong (UNSW with scholarship, external joint supervisor)
	In progress
2022 –	Xingyun (Claire) Tan (University of Melbourne with scholarship, co-supervisor)
	In progress
2022 –	Jim (Yanfeng) Li (UNSW with scholarship, external joint supervisor)
	In progress
2021 –	Lorenzo Marchi
	(University of Melbourne and KU Leuven - joint PhD with scholarship, principal supervisor)
	In progress
2021 –	Athibav Chaudhry
	(University of Melbourne and KU Leuven - joint PhD with scholarship, co-supervisor)
	In progress
2019 –	Yunshen Yang (UNSW Scientia Scholar, joint, then external joint supervisor)
	In progress
2017 –	Guillaume Boglioni-Beaulieu
	(UNSW with UIPA and Canadian scholarships, joint, then external joint supervisor)
	In progress
	Now Associate Lecturer at UNSW, Sydney, Australia. Next (tenured) Lecturer at Macquarie University, Sydney
2016 - 2022	Alan Xian (UNSW with APA, joint, then external supervisor)
	Now Consultant at Taylor Fry Consulting, Sydney, and Lecturer at Macquarie University, Sydney.
2016 - 2020	Ka Wai (Hayden) Lau (UNSW with UIPA, joint supervisor)
	Now 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)
	Now Consultant at Taylor Fry Consulting, Sydney.
2013 - 2017	Xinda Yang (UNSW with UIPA, joint supervisor)
	Now Pricing Specialist at Insurance Australia Group (IAG), Sydney.
2013 - 2017	Vincent Tu (UNSW with APA, joint supervisor)
	Now at Taylor Fry Consulting, Sydney.
Phil students sui	pervision

MPhil students supervision

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

Masters' Essay students supervision

2020 - 2021	Xingyun (Claire) Tan (ACTL90012, University of Melbourne, main supervisor)
	Honours Class 1

Honours students supervision

2022	Melantha (Chenyi) Wang (UNSW, external supervisor)
	in progress
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 Analyst at Allier Capital, Sydney.
2015	Alan Xian, Honours Class 1 and the University Medal (UNSW, joint supervisor)
2013	Now Lecturer at Macquarie University, Sydney, Australia.
2014	Clement Yeung, Honours Class 2:1 (UNSW, external supervisor)
2014	Now Data Scientist at Loan Market, Sydney.
2012	
2013	Phuong Anh Vu, Honours Class 1 (UNSW, joint supervisor)
	PhD UNSW and Université de Montréal.
	Now Consultant 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; Now at Taylor Fry Consulting, Sydney.
2011	Jamie Tao, Honours Class 1 (UNSW, joint supervisor)
	Now Head of Balance Sheet Management, Treasury, at CLSA, 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 Principal Consultant at Suncorp, Sydney.
	r inn, from i filicipal Consultant at Suncorp, 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

Insurance: Mathematics and Economics

ASTIN Bulletin

North American Actuarial Journal Scandinavian 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, and FL

Canada: National Science and Engineering Research Council (NSERC)

Switzerland: National Science Foundation (SNSF)

Poland: National Science Centre (NSC)

External Promotions

UNSW: 2019 (twice) Macquarie University: 2020

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)

Miscellaneous reviewing activities

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

PhD jury

2014 Dec.

2014 Aug.

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.

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. 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

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)
		Department of Actuarial Science, University of Lausanne (Switzerland)
2019		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	•	Department of Statistics and Actuarial Science, University of Hong Kong
2014		School of Risk and Actuarial Studies, University of New South Wales (Australia)
2014		Centre for Actuarial Studies, University of Melbourne (Australia)
2012		Department of Mathematics and Statistics, Université de Montréal (Canada)
2012		Department of Statistics and Actuarial Science, University of Hong Kong
2012		School of Economics and Political Science, University of St. Gallen (Switzerland)
2012		Department of Operations, University of Lausanne (Switzerland)
2010		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		Department of Management, University of Lausanne (Switzerland)
2009		School of Actuarial Studies, Université Laval (Québec City, Canada)
2009		Department of Mathematics and Statistics, Université de Montréal (Canada)
2009		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 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
2022	June	(joint with Yanfeng Li, Bernard Wong, and Alan Xian) 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 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)
2022	May	(joint with Greg Taylor, Bernard Wong, and David Yu) SPLICE: Synthetic data generation for loss experience 2022 All-Actuaries Summit: Getting closer, Thinking bigger (Australia)
2021	May	(joint with Greg Taylor, Melantha Wang, and Bernard Wong) Neural Networks in Reserving: how and why are they worth considering? 2021 All-Actuaries Virtual Summit: Thriving in an Age of Extremes (Australia)
2019	Nov.	(joint with M. Al-Mudafer, Greg Taylor, and Bernard Wong) When (not) to use abstract dependence structures: theoretical and practical considerations
2019	July	10th Australasian Actuarial Education and Research Symposium (Melbourne, Australia) 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
2016	May	3rd European Actuarial Journal Conference (Lyon, France) 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		On a mean reverting dividend strategy with Brownian motion 5th Australasian Actuarial Education and Research Symposium (Melbourne, Australia)
2012	-	Optimal dividends in a perturbed Cramér-Lundberg model with stochastic prospects and a penalty at ruin 4th International Gerber-Shiu Workshop (Melbourne, Australia) Optimal dividends in a perturbed Cramér-Lundberg model with stochastic prospects and a penalty at ruin
2011		16th International Congress on Insurance: Mathematics and Economics (Hong Kong) What is it that makes the Swiss annuitise? A description of the Swiss retirement system
2011	June	2011 Australasian Actuarial Education and Research Symposium (Canberra, Australia) Modelling Dependence in Insurance Claims Processes with Lévy Copulas 15th International Congress on Insurance, Mathematics and Economics (Triesto Italy)
2011	June	15th International Congress on Insurance: Mathematics and Economics (Trieste, Italy) 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		
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
2003	ividy	model
		13th International Congress on Insurance: Mathematics and Economics (Istanbul, Turkey)
2000	N 4	
2009	iviay	What is it that make the Swiss annuitise? A description of the Swiss retirement system
2000	•	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
		12th International Congress on Insurance: Mathematics and Economics (Dalian, China)
2007	Jul.	Optimal dividends in the dual model with diffusion
		11th International Congress on Insurance: Mathematics and Economics (Piraeus, Greece)
2006	Jul.	Optimal dividends in the dual model
		10th International Congress on Insurance: Mathematics and Economics (Leuven, Belgium)
2006	Mav	Demand Estimation Through Credibility Theory
	- 5	17th Annual Conference of POMS (Boston, USA)
		Transmitted of the control (Bessell)
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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
_015	5 a.	Reserving
2010	lun	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon)
2019	Jun	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models
		Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models Centre of Actuarial Studies, Department of Economics, University of Melbourne (Australia)
2019 2019		Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models Centre of Actuarial Studies, Department of Economics, University of Melbourne (Australia) Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes
2019	Mar	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models 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 (Denmark)
	Mar	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models 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 (Denmark) Inference and prediction of counts using Markov-modulated non-homogeneous Poisson processes
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201920192016201520152014	Mar Feb Aug Dec Apr. Jan.	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models 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 (Denmark) 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) On the distribution of the profits of assets-liability funds in presence of regulation Macquarie University Actuarial Studies Seminar, Macquarie University (Sydney, Australia) Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations School of Risk & Actuarial Studies Research Day 2015 (Sydney, Australia) Dépendance et assurance: une histoire de corrélation? Club Mathématique de l'Université de Montréal, Montreal (Canada) Actuarial applications of Lévy copulas Actuarial and Financial Mathematics Seminar, Quantact Lab, Center for Research in Mathematics (CRM), Montreal (Canada) On optimal periodic dividend strategies in the dual model with diffusion Centre for Actuarial Studies, University of Melbourne (Australia)
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2019 2019 2016 2015 2015 2014 2012 2010	Mar Feb Aug Dec Apr. Jan. Mar. Dec. Nov.	Séminaires L^2 Lyon-Lausanne (ISFA, Lyon) Stochastic dependence and general insurance capital: from data to models 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 (Denmark) 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) On the distribution of the profits of assets-liability funds in presence of regulation Macquarie University Actuarial Studies Seminar, Macquarie University (Sydney, Australia) Correlations between insurance lines of business: An illusion or a real phenomenon? Some methodological considerations School of Risk & Actuarial Studies Research Day 2015 (Sydney, Australia) Dépendance et assurance: une histoire de corrélation? Club Mathématique de l'Université de Montréal, Montreal (Canada) Actuarial applications of Lévy copulas Actuarial and Financial Mathematics Seminar, Quantact Lab, Center for Research in Mathematics (CRM), Montreal (Canada) 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) 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	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

2019 M	۱ar. ۱	Workshop "Fair Valuation in Insurance" (Brussels, Belgium)
2016 Ju	un. (CAS Course on Professionalism (Toronto, Canada)
2015 Ju	un. l	Enterprise Risk Management Symposium (Washington, USA)
2015 Ju	un.	The Changing Face of GI, Actuaries Institute (Sydney, Australia)
2014 Ju	uly :	16th International Congress on Insurance: Mathematics and Economics (Shanghai, China)
2010 No	lov. (OECD/IOPS Global Forum on Private Pensions, on invitation (Sydney, Australia)
2010 Se	ер. (6th International Longevity Risk and Capital Markets Solutions Conference (Sydney, Australia)
2010 Ju	ul. :	18th Australian Colloquium of Superannuation Researchers, Retirement Saving Choices: challenges for
		individuals, industry and public policy (Sydney, Australia)
2009 Ju	ul. :	17th Australian Colloquium of Superannuation Researchers, Celebrating 100 years of a National Retirement
		Income System - The Challenges Ahead (Sydney, Australia)
2009 Ju	un. 🛭	2b) or not 2b) Conference (Lausanne, Switzerland)
2008 No	lov.	1st Australasian Actuarial Education and Research Symposium (Sydney, Australia)

TEACHING

Awards		
2016	2015 9	School of Risk and Actuarial Studies Teaching Innovation Award, for "Use of Learning Catalytics in
_010		ctuarial Program"
2011		nated for a 2012 Vice-Chancellor Award for Teaching Excellence
2011		alian School of Business Teaching Excellence Award, for "Outstanding Technology-Enabled Teaching
	Innova	•
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 F	FULT	'Foundations of University Learning and Teaching' (five days), University of New South Wales
		(· · · · · · · · · · · · · · · · · · ·
Courses tau	ıght	
2022 9	S1	ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2022 9		ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2021 9		ACTL 10001 Introduction to Actuarial Studies (B.Sc., University of Melbourne)
2021 9		ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2021 9		ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2020 9		ACTL 10001 Introduction to Actuarial Studies (B.Sc., University of Melbourne)
2020 9	S1	ACTL 90020 General Insurance Modelling (M.Sc., University of Melbourne)
2020 9	S1	ACTL 30007 Actuarial Modelling III (B.Sc., University of Melbourne)
2019	Т6	ZZBU 6507 Data Visualisation & Communication – developed but not delivered
		(fully online, Master of Analytics, UNSW)
2019	T3	ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2019	Jul	Actuarial Journals and the Publishing Process (PhD, University of Lyon 1)
2018 9	S2	ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2018 9		ACTL 4003/5003 Research Methods in Actuarial Science (Honours and HDR, UNSW)
2017 9		ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2017 9		ACTL 4003/5003 Research Methods in Actuarial Science (Honours and HDR, UNSW)
2016		ACTL 1101 Introduction to Actuarial Studies (B.Sc., UNSW)
2016		ACTL 3141 Actuarial Statistics (B.Sc., UNSW)
2015		ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2015		ACTL 3162 Insurance Risk Models (B.Sc., UNSW)
2014 F		ACT3284 Modèles en assurances IARD (B.Sc., Université de Montréal)
2014 F		ACT3241 Théorie du Risque (B.Sc., Université de Montréal)
2013 9		ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2013 9		ACTL 3003 Insurance Risk Models (B.Sc., UNSW)
2013 9		ACTL 5104 Actuarial Statistics (M.Sc., UNSW)
2013 9		ACTL 5106 L. Scit Mark L. (M. C. HNSW)
2012 9		ACTL 3106 Insurance Risk Models (M.Sc., UNSW)
2012 9		ACTL 5106 Insurance Risk Models (B.Sc., UNSW)
2011 9		ACTL 3003 Insurance Risk Models (M.Sc., UNSW)
2011 9		ACTL 5103 Financial Mathematics (M.Sc., UNSW)
2011 S 2011 S		ACTL 2001 Financial Mathematics (M.Sc., UNSW)
2010 3		ACTL 2001 Financial Mathematics (B.Sc., UNSW) ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2010 5		ACTL 2001 Financial Mathematics (M.Sc., UNSW)
2010 5		ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2010 5		ACTL 2001 Financial Mathematics (B.Sc., UNSW)
2009 9		ACTL 4003/5003 Research Topics in Actuarial Science (Honours and HDR, UNSW)
2009 9		ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2009 9		ACTL 5102 Financial Mathematics (M.Sc., UNSW)
2009 9		ACTL 2001 Financial Mathematics (B.Sc., UNSW)
2008 9		ACTL 5106 Insurance Risk Models (M.Sc., UNSW)
2008 9		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

Melantha (Chenyi) Wang (UNSW)
Simon (Wanzhang) Jing (UNSW)
Wilson Cheng (UNSW)
Guanting Liu (UNSW)
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

cademic engage	chieft and readership
2021 – 2022	Elected Member, Teaching and Learning Quality Assurance Committee (TALQAC), The University of Melbourne
	- Program review panel member (2021: 1, 2022: 1)
2020	- Member, Working group on diversifying evidence of teaching effectiveness
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
2017 - 2010	(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
	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, Association du Corps Intermédiaire et des Doctorants de l'Université de Lausanne (official
	representative of the regular (teaching and research) staff that is below the professor level)
2006 - 2008	Member, Committee Enseignement (teaching) of the University of Lausanne
2006 – 2008	Member, Committee Recherche (research) of the University of Lausanne
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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

FCR development

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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)
11 October 2019

Business Think

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

 $^{^6}$ 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).

2015 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).

2014 5. 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)

Construction of detailed correlation structures across GI business segments

2016 Oct. Construction of detailed correlation structures across GI business so '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