Brendan K. Beare

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Level 5, Social Sciences Building
University of Sydney, NSW 2006, Australia

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Personal website: http://www.brendanbeare.com
Born: January 23, 1980
Citizenship: Australia & United States

Current position

2019– *Professor*, University of Sydney
2025 *Visiting Professor*, Sapienza University of Rome, Jan-Feb

Prior appointments held

2023 *Visiting Professor*, Yale University, Spring semester
2015–2019 *Associate Professor*, University of California – San Diego
2008–2015 *Assistant Professor*, University of California – San Diego
2013 *Academic Visitor*, Nuffield College, Hilary term
2007–2008 *Research Fellow*, Nuffield College and University of Oxford

Education

2007 PhD in Economics, Yale University
2006 MA in Statistics, Yale University
2005 MPhil in Economics, Yale University
2004 MA in Economics, Yale University
2002 BEc(Hons) in Econometrics, University of New South Wales

Honours & awards

2022 Isaac Manasseh Meyer Fellowship, National University of Singapore
2021 Tjalling C. Koopmans Econometric Theory Prize, 2018-2020
2021 Econometric Theory Multa Scripsit Award
2020 Faculty Research Support Scheme Grant, University of Sydney
2017 Graduate Elective Teaching Prize, University of California – San Diego
2011–2016 Sir Clive W. J. Granger Chair, University of California – San Diego
2008 George Trimis Prize for Distinguished Dissertation in Economics, Yale University
2007 MA by Resolution, University of Oxford
2007 Dissertation Fellowship, Yale University
2006 Carl Arvid Anderson Prize, Cowles Foundation for Research in Economics
2006 Cowles Summer Prize, Cowles Foundation for Research in Economics
2002–2006 Cowles Prize, Cowles Foundation for Research in Economics
2002–2006 University Fellowship, Yale University
2002 Economic Society of Australia Honours Prize

Publications

2025 Howlett, Phil, Beare, Brendan K., Franchi, Massimo, Boland, John and Avrachenkov, Konstantin. The Granger-Johansen representation theorem for integrated time series on Banach space. To appear in the *Journal of Time Series Analysis*.

2025 Beare, Brendan K., Seo, Juwon and Zheng, Zhongxi. Stochastic arbitrage with market index options. *Journal of Banking & Finance*, 173: 107395.

2023 Beare, Brendan K. Optimal measure preserving derivatives revisited. *Mathematical Finance*, 33(2): 370–388.

2022 Beare, Brendan K., Seo, Won-Ki and Toda, Alexis A. Tail behavior of stopped Lévy processes with Markov modulation. *Econometric Theory*, 38(5): 986–1013.

2022 Beare, Brendan K. and Toda, Alexis A. Determination of Pareto exponents in economic models driven by Markov multiplicative processes. *Econometrica*, 90(4): 1811–1833.

2021 Beare, Brendan K. Distributional replication. *Entropy*, 23(8): 1063.

2021 Beare, Brendan K. Least favorability of the uniform distribution for tests of the concavity of a distribution function. *Stat*, 10(1): e376.

2021 Sun, Zhenting and Beare, Brendan K. Improved nonparametric bootstrap tests of Lorenz dominance. *Journal of Business and Economic Statistics*, 39(1): 189–199.

2020 Beare, Brendan K. and Seo, Juwon. Randomization tests of copula symmetry. *Econometric Theory*, 36(6): 1025–1063.

2020 Beare, Brendan K. and Toda, Alexis A. On the emergence of a power law in the distribution of COVID-19 cases. *Physica D: Nonlinear Phenomena*, 412: 132649.

2020 Beare, Brendan K. and Seo, Won-Ki. Representation of I(1) and I(2) autoregressive Hilbertian processes. *Econometric Theory*, 36(5): 773–802. Winner of the Tjalling C. Koopmans Prize.

2019 Beare, Brendan K. and Shi, Xiaoxia. An improved bootstrap test of density ratio ordering. *Econometrics and Statistics*, 10: 9–26.

2019 Seo, Won-Ki and Beare, Brendan K. Cointegrated linear processes in Bayes Hilbert space. *Statistics and Probability Letters*, 147: 90–95.

2018 Beare, Brendan K. Unit root testing with unstable volatility. *Journal of Time Series Analysis*, 39(6): 816–835.

2018 Beare, Brendan K. and Dossani, Asad. Option augmented density forecasts of market returns with monotone pricing kernel. *Quantitative Finance*, 18(4): 623–635.

2017 Beare, Brendan K. Book review: "Convolution Copula Econometrics". *Journal of Economic Literature*, 55(4): 1615–1619.

2017 Beare, Brendan K. and Fang, Zheng. Weak convergence of the least concave majorant of estimators for a concave distribution function. *Electronic Journal of Statistics*, 11(2): 3841–3870.

2017 Beare, Brendan K., Seo, Juwon and Seo, Won-Ki. Cointegrated linear processes in Hilbert space. *Journal of Time Series Analysis*, 38(6): 1010–1027.

2017 Beare, Brendan K. The Chang-Kim-Park model of cointegrated density-valued time series cannot accommodate a stochastic trend. *Econ Journal Watch*, 14(2): 133–137.

2016 Beare, Brendan K. and Schmidt, Lawrence D. W. An empirical test of pricing kernel monotonicity. *Journal of Applied Econometrics*, 31(2): 338–356.

2015 Beare, Brendan K. and Moon, Jong-Myun. Nonparametric tests of density ratio ordering. *Econometric Theory*, 31(3): 471–492.

2015 Beare, Brendan K. and Seo, Juwon. Vine copula specifications for stationary multivariate Markov chains. *Journal of Time Series Analysis*, 36(2): 228–246.

2014 Vaynman, Igor and Beare, Brendan K. Stable limit theory for the variance targeting estimator. *Advances in Econometrics*, 33: 639–672.

2014 Beare, Brendan K. and Seo, Juwon. Time irreversible copula-based Markov models. *Econometric Theory*, 30(5): 923–960.

2014 Beare, Brendan K. A coarsening of the strong mixing condition. *Communications on Stochastic Analysis*, 8(3): 317–329.

2012 Beare, Brendan K. Archimedean copulas and temporal dependence. *Econometric Theory*, 28(6): 1165–1185.

2011 Beare, Brendan K. Measure preserving derivatives and the pricing kernel puzzle. *Journal of Mathematical Economics*, 47(6): 689–697.

2010 Beare, Brendan K. Copulas and temporal dependence. *Econometrica*, 78(1): 395–410.

2009 Beare, Brendan K. A generalization of Hoeffding's lemma, and a new class of covariance inequalities. *Statistics and Probability Letters*, 79(5): 637–642.

2008 Beare, Brendan K. The Soviet economic decline revisited. *Econ Journal Watch*, 5(2): 135–144.

Professional service

Editorial service

2019– Co-Editor, *Econ Journal Watch*.

2023– Associate Editor, *Econometric Theory*.

2016–2020 Associate Editor, *Econometric Reviews*.

Referee service

Advances in Econometrics, *Advances in Statistical Analysis*, *American Mathematical Monthly*, *Annals of Oradea University—Mathematics Fascicola*, *Annals of Statistics*, *Australian & New Zealand Journal of Statistics*, *Bernoulli*, *Canadian Journal of Statistics*, *Comparative Economic Studies*, *Computational Statistics and Data Analysis*, *Decisions in Economics and Finance*, *Dependence Modeling*, *Econ Journal Watch*, *Econometrica*, *Econometric Reviews*, *Econometrics*, *Econometrics Journal*, *Econometric Theory*, *Economic Record*, *Economics Letters*, *Economics of Transition*, *Electronic Journal of Statistics*, *Empirical Economics*, *Entropy*, *European Series in Applied and Industrial Mathematics: Probability and Statistics*, *Hydrological Processes*, *Iranian Journal of Science and Technology*, *Journal of the American Statistical Association*, *Journal of Applied Econometrics*, *Journal of Applied Statistics*, *Journal of Banking and Finance*, *Journal of Business and Economic Statistics*, *Journal of Econometrics*, *Journal of Empirical Finance*, *Journal of Financial Econometrics*, *Journal of Futures Markets*, *Journal of Mathematical Analysis and Applications*, *Journal of Multivariate Analysis*, *Journal of the Royal Statistical Society: Series B*, *Journal of Statistical Theory and Applications*, *Journal of Time Series Analysis*, *Management Science*, *Mathematics*, *Oxford Bulletin of Economics and Statistics*, *Quantitative Economics*, *Review of Economics and Statistics*, *Review of Economic Studies*, *Risks*, *Scandinavian Journal of Statistics*, *Stat*, *Statistica Sinica*, *Statistics*, *Statistics and Computing*, *Statistics and Probability Letters*, *Studies in Nonlinear Dynamics and Econometrics*, *Sustainability*, *Wiley Interdisciplinary Reviews: Computational Statistics*.

Conference and seminar presentations

Conferences

2024 18th International Symposium on Econometric Theory and Applications. Taipei.

2023 Sydney Macroeconomics Reading Group Workshop. Sydney.

2023 Australia & New Zealand Econometrics Study Group. Adelaide.
2023 Australasian Meeting of the Econometric Society. Sydney.
2023 Asian Meeting of the Econometric Society. Beijing.
2023 Symposium for High Dimensional Econometrics and Machine Learning. Beijing.
2022 Financial Econometrics Workshop. Sydney.
2020 Australia & New Zealand Econometrics Study Group. Melbourne.
2019 Time Series and Forecasting Symposium. Sydney.
2019 NBER-NSF Time Series Conference. Hong Kong.
2018 12th International Conference on Computational and Financial Econometrics. Pisa.
2018 A Celebration of Peter Phillips' Forty Years at Yale. New Haven.
2018 14th International Symposium on Econometric Theory and Applications. Sydney.
2018 Shape-Constrained Methods: Inference, Applications and Practice. Banff.
2017 10th International Conference on Computational and Methodological Statistics. London.
2016 10th International Conference on Computational and Financial Econometrics. Seville.
2016 Thirty Years of GARCH Models and Measures. Toulouse.
2015 New Developments in Econometrics and Time Series. Bochum.
2015 11th International Symposium on Econometric Theory and Applications. Tokyo.
2014 CANSSI-CRM Workshop on New Horizons in Copula Modeling. Montreal.
2014 10th International Symposium on Econometric Theory and Applications. Taipei.
2013 Conference in Honor of Peter C. B. Phillips. Dallas.
2013 9th International Symposium on Econometric Theory and Applications. Seoul.
2013 Conference on Econometrics and Mathematical Economics. Ithaca.
2012 Californian Econometrics Conference. Davis.
2011 7th International Symposium on Econometric Theory and Applications. Melbourne.
2011 Asian Meeting of the Econometric Society. Seoul.
2010 Duke Econometrics Jamboree. Durham.
2010 CIREQ Time Series Conference. Montreal.
2010 Annual Meeting of the Allied Social Science Associations. Atlanta.
2009 Californian Econometrics Conference. Riverside.
2009 Stats in the Château. Jouy-en-Josas.
2008 London-Oxbridge Time Series Econometrics Workshop. London.
2008 Annual Meeting of the Allied Social Science Associations. New Orleans.
2006 Greater New York Metropolitan Area Econometrics Colloquium. New Haven.
2002 Australasian Meeting of the Econometric Society. Brisbane.

Seminars

2025 Sapienza University of Rome, University of Bologna
2024 University of Queensland, University of California – Los Angeles
2023 Duke University, Georgetown University, University of Connecticut, University of Illinois – Urbana-Champaign, Emory University, Yale University, University of California – Los Angeles, Academia Sinica, University of Sydney
2022 University of Sydney Business School, Singapore Management University, National University of Singapore, Universitat Pompeu Fabra, University of Oxford
2020 University of Sydney Business School
2019 Singapore Management University, National University of Singapore, Xiamen University, Peking University
2018 Macquarie University, University of Melbourne, University of Sydney
2017 University of Toronto, Queen's University, University of California – Santa Barbara, Einaudi Institute for Economics and Finance

2016 Center for Monetary and Fiscal Studies, Toulouse School of Economics, New York University, Northwestern University, Université libre de Bruxelles

2015 University of Sydney, University of Wisconsin – Madison, Pennsylvania State University, University College London, University of Copenhagen, Aarhus University, University of Tokyo, National University of Singapore, University of Montreal

2014 University of Texas – Austin, Hong Kong University of Science and Technology, University of Tokyo

2013 University of Nottingham, Humboldt University, University of Cambridge, University of Oxford, Seoul National University, Yonsei University, Indiana University, University of New South Wales, Macquarie University, University of Illinois – Urbana-Champaign

2012 University of California – Irvine, Pennsylvania State University, University of California – Los Angeles, University of Southern California

2011 University of New South Wales, University of California – Riverside, University of Chicago, Johns Hopkins University, Princeton University

2010 University of Pennsylvania, University of Southern California

2009 Stanford University, University of California – Berkeley, University of California – Davis, Yale University

2008 University of Exeter, University of Nottingham

2007 Brown University, University of Oxford, University of California – San Diego, University of California – Los Angeles, University of Maryland, University of Wisconsin – Madison, London School of Economics and Political Science

Research supervision

Doctoral committee chair, University of California – San Diego

2018 Won-Ki Seo
Representation theory for cointegrated functional time series
Placement: Queen's University

2015 Juwon Seo
Copula-based models of intertemporal and cross-sectional dependence
Placement: National University of Singapore

Doctoral committee co-chair, University of California – San Diego

2018 Zhenting Sun
Essays on non-parametric and high-dimensional econometrics
Placement: Peking University

Doctoral committee member, University of California – San Diego

2020 Lam Nguyen
Dynamic causal inference with imperfect identifying information
Placement: Citi

2019 Yaein Baek
Essays on structural breaks and forecasting in econometric models
Placement: Peking University

2019 Yifei Lyu
Essays on fiscal policy and oil price shocks
Placement: New Zealand Treasury

2018 Jie Chen
Multi-step ahead prediction of nonlinear time series and bootstrap prediction intervals for regression after model selection
Placement: Facebook

2018 Asad Dossani
Essays on inference from option markets
Placement: Colorado State University

2017 Qihui Chen
Essays in econometrics
Placement: Chinese University of Hong Kong

2017 Yinchu Zhu
Essays on estimation and inference in high-dimensional models with applications to finance and economics
Placement: University of Oregon

2017 Nan Zou
Bootstrap tests for unit root and seasonal unit root
Placement: University of Toronto

2015 Zheng Fang
Estimation and inference of directionally differentiable functions: theory and applications
Placement: Kansas State University

2015 Lawrence D. W. Schmidt
Essays in financial economics
Placement: University of Chicago

2014 Jong-Myun Moon
Sieve extremum estimation of transformation models
Placement: University College London

2013 Li Pan
Bootstrap prediction intervals for time series
Placement: Amazon

MASTER OF ECONOMIC ANALYSIS THESIS ADVISOR, UNIVERSITY OF SYDNEY

2022 Mansher Singh
Identification of stochastic arbitrage opportunities with models of time varying higher moments
Placement: Australian Signals Directorate

2021 Jackson Clarke
Modified one-sided Wilcoxon-Mann-Whitney tests of stochastic dominance
Placement: Goldman Sachs

Master of Philosophy thesis advisor, University of Oxford

2008 Matthias Alt
The dynamic dependence between equity and CDS spreads: an empirical analysis
Placement: Park Square Capital

Honours thesis advisor, University of Sydney

2023 Anton Smirnov
Implications of higher-order stochastic dominance on pricing kernels
Placement: Optiver

2020 Jiruo Yin
Examination on spectral centroid using empirical data
Placement: Uber Technologies

Last updated: February 14, 2025