Curriculum Vitae — Dennis Kristensen

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Department of Economics, University College of London
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Education:

2000–2004: PhD Economics, London School of Economics
1996–2000: MSc Mathematics-Economics, Uni Copenhagen
1992–1995: BSc Mathematics-Economics, Uni Copenhagen

Employment:

2014–present: Professor, Dep. of Economics, Uni College London
2011–2014: Reader, Dep. of Economics, Uni College London
2006–2012: Assistant Professor, Dep. of Economics, Columbia Uni
2004–2007: Assistant Professor, Dep. of Economics, Uni Wisconsin

Affiliations:

2014–present: Research Fellow, Centre for Financial Econometrics, Essex Uni
2011–present: Research Associate, CeMMaP
2011–present: Research Associate, Institute for Fiscal Studies
2007–present: International Fellow, CREATES, Uni Aarhus
Feb–Jul, 2010: Visiting Professor, Dep. of Economics, Uni Copenhagen
Sep–Dec, 2009: Visiting Scholar, Dep. of Economics, Princeton Uni
Jun–Aug, 2006: Visiting Professor, Dep. of Statistics, Uni Copenhagen

Research Interests:

Econometric Theory; Applied Microeconomics; Quantitative Finance

Honours and Awards:

2016: Econometric Theory Multa Scripsit Award
2012: Fellow of the Journal of Econometrics
2010: VELUX Visiting Professor Programme Award, Uni Copenhagen
2006: McKenzie Prize for Excellence in Research, Uni Wisconsin
2004–2006: Shoemaker Fellow, Uni Wisconsin
2000–2003: Danish Research Academy Scholar

Research Grants:

2017–2022: ERC Advanced Grant 740369 (Co-Investigator)
2012–2017: ERC Starting Grant 312474 (PI)
2010–2012 (early termination): National Science Foundation Grant SES–0961596 (PI)
2007: Summer Research Grant, Columbia Uni (PI)
2006: Uni Wisconsin Alumni Research Foundation Grant (PI)
2004–2006: Uni Wisconsin Graduate School Research Grant (PI)

Professional Services:

2015–present: Co-Editor, Econometrics Journal
2014–present: Co-Editor, Econometric Theory
2013–present: Member of editorial board, Review of Economic Studies
2013–present: Associate Editor, Journal of Time Series Analysis
2012–present: Associate Editor, Journal of Econometrics
2010–2013: Associate Editor, Econometric Theory
2007–2015: Associate Editor, Econometrics Journal

Referee/Reviewer: American Economic Journal: Microeconomics; American Economic Review; Annals of Economics & Statistics; Annals of the Institute of Statistical Mathematics; Annals of Statistics; Bernoulli; Canadian Journal of Economics; Computational Statistics & Data Analysis; Danish Council for Independent Research; Econometric Reviews; Econometric Theory; Econometrica; Economic Journal; Economica; Economics Letters; European Research Council; Finance Research Letters; International Economic Review; International Journal of Stochastic Analysis; Journal of the American Statistical Association; Journal of Applied Econometrics; Journal of Business & Economic Statistics; Journal of Econometrics; Journal of Economic Dynamics & Control; Journal of Empirical Finance; Journal of Finance; Journal of Financial Econometrics; Journal of Financial and Quantitative Analysis; Journal of Human Resources; Journal of Money, Credit & Banking; Journal of Multivariate Analysis; Journal of Nonparametric Statistics; Journal of Political Economy; Journal of the Royal Statistical Society; Journal of Time Series Analysis; Journal of Time Series Econometrics; Management Science; Mathematical Finance; Mathematical Reviews; National Science Foundation; The Netherlands Organisation for Scientific Research; Oxford Bulletin of Economics & Statistics; Quantitative Economics; Review of Economic Studies; Review of Economics & Statistics; Review of Financial Studies; Scandinavian Journal of Economics; Scandinavian Journal of Statistics; Springer Lecture Notes in Statistics; Statistics & Probability Letters; Stochastics; Studies in Nonlinear Dynamics & Econometrics; TEST

Programme Committees: Annual Conference of the International Association for Applied Econometrics 2016–2017; Econometric Society European Meeting, 2006, 2012–2014, 2016–2017; Econometric Society North-American Summer Meeting, 2013; $(EC)^2$ Conference, 2007; European Finance Association Meeting 2014–2017; Humboldt–Copenhagen Conference on Financial Econometrics, 2009, 2011, 2013 and 2017

Journal Publications:

"Higher Order Properties of Approximate Estimators" (with B. Salanie), *Journal of Econometrics* 198 (2017), 189–208

"Modeling Corporate Defaults: Poisson Autoregressions with Exogeneous Covariates (PARX)" (with A. Agosto, G. Cavaliere and A. Rahbek), *Journal of Empirical Finance* 38 (2016), 640-663

"Estimation of Stochastic Volatility Models By Nonparametric Filtering" (with S. Kanaya), *Econometric Theory* 32 (2016), 861-916

"On Selection of Statistics for Approximate Bayesian Computing" (with M. Creel), *Computational Statistics & Data Analysis* 100 (2016), 99-114

"Nonparametric Identification and Estimation of Transformation Models" (with P.-A. Chiappori & I. Komunjer), *Journal of Econometrics* 188 (2015), 22-39

“ABC of SV: Limited Information Likelihood Inference in Stochastic Volatility Jump-Diffusion Models” (with M. Creel), *Journal of Empirical Finance* 31 (2015), 85–108

“Asymptotic Theory for the QMLE in GARCH-X Models with Stationary and Non-Stationary Covariates” (with H. Han), *Journal of Business & Economic Statistics* 32 (2014), 416–429

“Bounding Quantile Demand Functions Using Revealed Preference Inequalities” (with R. Blundell & R. Matzkin), *Journal of Econometrics* 179 (2014), 112–127

“Testing and Inference in Nonlinear Cointegrating Vector Error Correction Models” (with A. Rahbek), *Econometric Theory* 29 (2013), 1238-1288

“Control Functions and Simultaneous Equations Methods” (with R. Blundell & R. Matzkin), *American Economic Review: Papers and Proceedings* 103 (2013), 563–569

“Nonparametric Detection and Estimation of Structural Change,” *Econometrics Journal* 15 (2012), 420–461

“Estimation of Dynamic Latent Variable Models Using Simulated Nonparametric Moments” (with M. Creel), *Econometrics Journal* 15 (2012), 490–515

“Testing Conditional Factor Models” (with A. Ang), *Journal of Financial Economics* 106 (2012), 132–156

“Estimation of Dynamic Models with Nonparametric Simulated Maximum Likelihood” (with Y. Shin), *Journal of Econometrics* 167 (2012), 76–94

“Adding and Subtracting Black-Scholes: A New Approach to Approximating Derivative Prices in Continuous Time Models” (with A. Mele), *Journal of Financial Economics* 102 (2011), 390–415

“Semi-Nonparametric Estimation and Misspecification Testing of Diffusion Models,” *Journal of Econometrics* 164 (2011), 382–403

“Likelihood-Based Inference for Cointegration with Nonlinear Error-Correction” (with A. Rahbek), *Journal of Econometrics* 158 (2010), 78–94

“Pseudo-Maximum Likelihood Estimation in Two Classes of Semiparametric Diffusion Models,” *Journal of Econometrics* 156 (2010), 239–259

“Nonparametric Filtering of the Realized Spot Volatility: A Kernel-Based Approach,” *Econometric Theory* 26 (2010), 60–93

“Uniform Convergence Rates of Kernel Estimators with Heterogeneous, Dependent Data,” *Econometric Theory* 25 (2009), 1433–1445

“Asymptotics of the QMLE for Non-Linear ARCH Models” (with A. Rahbek), *Journal of Time Series Econometrics* 1(1) (2009), Article 2

“On Stationarity and Ergodicity of the Bilinear Model with Applications to GARCH Models,” *Journal of Time Series Analysis* 30 (2009), 125–144

“Estimation of Partial Differential Equations with Applications in Finance,” *Journal of Econometrics* 144 (2008), 392–408

“Semi-Nonparametric IV Estimation of Shape-Invariant Engel Curves” (with R. Blundell & X. Chen), *Econometrica* 75 (2007), 1613–1670

"A Closed-Form Estimator for the GARCH(1,1) Model" (with O. Linton), *Econometric Theory* 22 (2006), 323–337

"Asymptotics of the QMLE for a Class of ARCH(q) Models" (with A. Rahbek), *Econometric Theory* 21 (2005), 946–961

"Nonparametric Estimation of a Multifactor Heath-Jarrow-Morton Model: An Integrated Approach" (with A. Jeffrey, O. Linton, T. Nguyen & P.C.B. Phillips), *Journal of Financial Econometrics* 2 (2004), 251–289

Other Publications:

"Semiparametric Modelling and Estimation: A Selective Overview" (in Russian), *Quantile* 7 (2009), 53–83

Entries on "Central Limit Theorem" and "Descriptive Statistics," *International Encyclopedia of the Social Sciences*, 2nd edition (2007)

"Consistent Standard Errors for Target Variance Approach to GARCH Estimation" (with O. Linton), *Econometric Theory* 19 (2003), 879–880 and 20 (2004), 990–993

"An Alternative GLS-Like Transformation in Regression Models with AR(1) Errors" (with O. Linton), *Econometric Theory* 17 (2001), 853–854 and 18 (2002), 1008–1010

Working Papers:

"Individual Counterfactuals with Multidimensional Unobserved Heterogeneity" (with R. Blundell & R.L. Matzkin), submitted for publication

"Bayesian Indirect Inference and the ABC of GMM" (with M. Creel, J. Gao & H. Hong), submitted for publication

"CCP and the Estimation of Nonseparable Dynamic Discrete Choice Models" (with L. Nesheim & A. de Paula)

"Indirect Likelihood Inference" (with M. Creel), UFAE and IAE Working Papers 874.11

Work in Progress:

"Nonparametric Identification and Estimation of Discrete Choice Models" (with P.–A. Chiappori & I. Komunjer)

"Solving Discrete Markov Decision Models by Sieve Approximations" (with P.K. Mogensen & B. Scherning)

"Optimal Sampling and Bandwidth Selection for Kernel Estimators of Diffusion Processes" (with S. Kanaya)

"What Drives the Yield Curve?" (with O. Linton & M. Van der Wel)

"Smooth Filtering and Estimation of Dynamic Latent Variable Models" (with C.T. Brownlees & Y. Shin)

"Estimation of Diffusion Models with Time-varying Parameters" (with S. Kanaya)

"Simple Approximate Maximum-Likelihood Estimation of Multivariate Jump-Diffusion Models" (with Y.J. Lee & A. Mele)

Conference Presentations (past five years):

Invited Presentations:

2018 (incl scheduled): "Recent Advances in the Method of Moments," CIREQ

2017: "Modern Econometrics Faces Machine Learning," Humboldt Uni Berlin; European Meeting of Statisticians, Uni Helsinki;

2016: Info-Metrics Spring 2016 conference, Uni Cambridge

2015: "Financial Markets and Nonlinear Dynamics", Paris; "High Frequency Financial Econometrics," Barcelona; "Financial Econometrics - Challenges and Directions for Future Research," Pontifical Catholic University of Rio de Janeiro; "Non-linear Models with Non-stationary Regressors," Uni Oxford; 9th International Conference on Computational and Financial Econometrics, London

2014: "Nonparametric and Semiparametric Methods," Uni Cambridge; CIREQ Econometrics Conference, Uni Montreal; Conference on Non- and Semiparametric Econometrics, Uni of York; "Indirect Estimation Methods in Finance and Economics," Kloster Hegne; 2nd Conference of the International Society for Nonparametric Statistics, Cádiz; 1st Heidelberg-Mannheim Stochastics Colloquium, Uni Mannheim

Contributed Presentations:

2018 (incl scheduled): Royal Economic Society Annual Conference, Brighton;

2017: Royal Economic Society Annual Conference, Bristol; Econometric Society European Meeting, Lisbon

2016: Barcelona Summer Forum, "Structural Microeconometrics"; Bristol Econometric Study Group Annual Conference

2015: "Advances in Microeconometrics," Seoul National Uni; 8th Annual SoFiE Conference, Uni Aarhus; 11th World Congress of the Econometric Society, Montreal

2014: CAM Summer workshop, Uni Copenhagen; "Advances in Microeconometrics," HKUST; Econometric Society European Meeting, Toulouse; NBER-NSF Time Series Conference, St. Louis Fed Reserve; $(EC)^2$ Conference, Universitat Pompeu Fabra

Discussant:

2nd International Workshop in Financial Econometrics, Salvador; CEF-MMF Workshop, Brunel Uni, 2013; Financial Econometrics Conference, Toulouse School of Economics, 2012 and 2017

Seminar Presentations (past five years):

2018 (incl scheduled): Uni Bath; Uni Nottingham; Uni Wisconsin; Uni Washington St Louis; Northwestern Uni; Chicago Booth

2017: New York Uni; Columbia Uni; Princeton Uni

2016: Queen Mary Uni of London; Uni Verona; Uni Paduva; Uni Venice

2015: Uni Essex; Uni Manchester; Hebrew Uni of Jerusalem; CREST; Helsinki Center of Economic Research; Uni Bern; Uni Hull; Durham Uni; Toulouse School of Economics

2014: KU Leuven; Northwestern Uni; Indiana Uni; CORE, Uni Catholique de Louvain; Uni Vienna; York Uni

PhD Supervision and Examination (placement, graduation year):

Main advisor:

Bruno Giovannetti (Universidade de São Paulo, 2011); Yuki Sakasai (Barclays Capital, 2008)

Committee Member:

Xintong Han (Concordia, 2017); Rasmus Søndergaard Pedersen (Uni Copenhagen, 2015); Sami Stouli (Uni Bristol, 2014); Nam-Hyun Kim (Uni Canterbury, 2013); Minkee Song (Korea Institute of Finance, 2013); David Grad (Bank of America Merrill Lynch, 2011); Chun Yip Yau (Hong Kong Uni, 2010); Ulf Nielsson (Copenhagen B'School, 2009); Shin Kanaya (Uni Oxford, 2008); Jason Wu (Federal Reserve Board of Governors, 2007); Sungjun Cho (Manchester B'School, 2007); Seungmoon Choi (Uni Adelaide, 2005)