

## CURRICULUM VITAE

LARS PETER HANSEN

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### ADDRESS

Department of Economics  
University of Chicago  
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Chicago, Illinois 60637

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Citizenship: USA

Birth: October 26, 1952

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### EDUCATION

1978            Ph.D. (Economics) University of Minnesota, Minneapolis, Minnesota  
1974            B.S. (Mathematics & Political Science) Utah State University, Logan, Utah

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### APPOINTMENTS/AFFILIATIONS

2017 –            Professor in Finance, Booth School of Business, University of Chicago  
present  
2010 –            David Rockefeller Distinguished Service Professor, University of Chicago  
present  
2007 –            Professor in Statistics, University of Chicago  
present  
1997– 2010      Homer J. Livingston Distinguished Service Professor in Economics,  
University of Chicago  
1990 – 1997      Homer J. Livingston Professor in Economics, University of Chicago  
1984 – 1990      Professor in Economics, University of Chicago  
1981 – 1984      Associate Professor, University of Chicago  
1980 – 1981      Associate Professor, GSIA, Carnegie-Mellon University  
1978 – 1980      Assistant Professor, GSIA, Carnegie-Mellon University

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### VISITING ACADEMIC POSITIONS

2009            Keio University, Faculty of Business and Commerce, Tokyo, Japan, Visiting  
Professor  
2007            Northwestern University, Department of Economics, Nemmers Visiting  
(Autumn)      Professor

2003 – 2005 University of Chicago, Graduate School of Business, Visiting Professor  
1989 – 1990 Stanford University, Graduate School of Business, Visiting Professor  
1986 Harvard University, Department of Economics, Visiting Professor  
1983 Massachusetts Institute of Technology, Department of Economics, Visiting Professor  
1981 – 1982 University of Chicago, Department of Economics, Visiting Associate Professor

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#### INVITED LECTURES

2017 Chen Daisun Memorial Lecture in Economics, November, 2017, Tsinghua University  
2016 The Burkett Miller Distinguished Lecture, University of Tennessee at Chattanooga  
2016 CORE Nobel Talk, Université catholique de Louvain  
2015 LAUNCH Distinguished Lecture, University of Illinois  
2015 W.P. Carey Lecture, Colorado College  
2014 IGIER Seminar Series, Università Bocconi  
2013 1st Macro Finance Workshop, Macro Finance Society, Ohio State University  
2010 Princeton Lectures in Finance, Princeton University  
2009 JFEC Invited Lecture at SoFiE, Geneva  
2008 Tjalling C. Koopmans Memorial Lecture, Cowles Foundation  
2007 Presidential Address, Econometric Society  
2007 Richard T. Ely Lecture, American Economic Association  
2006 Fisher-Schultz Lecture, Econometric Society (European Meeting)  
2005 The Third Toulouse Lectures in Economics, Toulouse School of Economics  
1992 Lionel W. McKenzie Annual Lecture, University of Rochester

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#### HONORS/AWARDS

2018 Honorary Professorship, Tilburg University, the Netherlands  
2017 Honorary Professorship, Tsinghua University School of Economics and Management  
2016 Honorary Doctor of Science, Colby College  
2015 Honorary Professor in Economics, Universidad del Pacífico  
2015 HEC Paris Honoris Causa Professor, HEC Paris  
2014 Honorary Academician of Academia Sinica  
2013 The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel  
2012 Honorary Doctorate, Utah State University  
2010 BBVA Foundation Frontiers of Knowledge Award in Economics, Finance and Management  
2008 CME Group-MSRI Prize in Innovative Quantitative Applications  
2006 The Erwin Plein Nemmers Prize in Economics, Northwestern University

1997 – 1998 Faculty Award for Excellence in Graduate Teaching and Mentoring, University of Chicago  
1984 Frisch Medal, Econometric Society (with Kenneth J. Singleton)

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#### FELLOWSHIPS

2013 – present Distinguished Fellow of Macro Finance Society  
2007 – present American Finance Association Fellow  
1999 – present National Academy of Sciences Fellow  
1996 – 1997 John Simon Guggenheim Memorial Foundation Fellow  
1993 – present American Academy of Arts and Sciences Member  
1985 – present Econometric Society Fellow  
1982 – 1984 Sloan Foundation Fellow

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#### OTHER PROFESSIONAL APPOINTMENTS

2012 – 2015 Co-Editor, *Econometrica*  
2014 – 2017 Director and Co-Chair, Becker Friedman Institute  
2011 – 2014 Research Director, Becker Friedman Institute  
2011 Vice President, American Economic Association  
2009 – 2012 Chairman, Section 54 Economic Sciences, National Academy of Sciences  
2009 – 2011 Founding Director, Milton Friedman Institute  
2007 President, Econometric Society  
2006 First Vice-President, Econometric Society  
2005 Second Vice-President, Econometric Society  
1998 – 2002 Chairman, Department of Economics, University of Chicago  
1988 – 1994 Director of Graduate Studies, Department of Economics, University of Chicago  
1986 – 1990 Co-Editor, *Econometrica*

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#### STUDENTS

Chairman of Ph.D. thesis committee for the following students:

Carnegie Mellon University: 1979 – 1981

Ravi Jagannathan (NWU)

Jong Park (FRB Board of Governors)

William Roberds (FRB Atlanta)

University of Chicago: 1982 – 1990

Narayana Kocherlakota (Rochester)	John Heaton (GSB/Chicago Booth)
Masao Ogaki (Keio Univ)	Kiseok Lee (Kyung Hee Univ)
Barbara Mace (Ernst & Young)	Yunzhi Hu

University of Chicago: 1991 – 2000

Karl Snow (Bates White)	Evan Anderson (NIU)
Philippe Moutot (European Central Bank)	Wen-Fang Liu (UW)
Erzo G.J. Luttmer (UMN)	Alexander Monge Naranjo (FRB St. Louis)
Amir Yaron (Wharton UPenn)	Richard Co (Equity Products, CME Group)
Thomas Tallarini Jr. (FRB Minneapolis)	Andrea Eisfeldt (UCLA)
Timothy Conley (University of Western Ontario)	Michael Johannes (Columbia GSB)
Alexander Taber (Santiago Canyon College)	Joel Peress (INSEAD)
Andrea Buraschi (GSB/Chicago Booth)	Rui Zhao (Illinois at Urbana-Champaign)
Kerimcan Engin	Marco Cagetti (FRB Board of Governors)
Marc Roston (MNR Capital)	

University of Chicago: 2001 - 2005

Noah Williams (Wisconsin)	John Curran (London Metropolitan Univ)
Oksana Grinchak (Mirexa Capital)	Francois Gourio (FRB Chicago)
Chon Io Lei (Univ of Macau)	Nan Li (National Univ Singapore)
Makoto Nirei (Ministry of Finance, Japan)	Mario Brundo Filho
Robert F. Martin (Barclays)	Jose Mazoy (UBS)
Gino Cateau (Bank of Canada)	Gauhar Turmuhambetova (BlackRock)
Yili Wang (Compass Lexecon)	

University of Chicago: 2006 – 2010

Raghu Suryanarayanan (MSCI)	Hugo Garduno-Arredondo (Mexico Finance Secretary)
Maria Tripolski Kimel (CRA International)	Ali Ozdagli (FRB Boston)
Jose Luis Fillat (FRB Boston)	Santiago García-Verdú (Bank for International Settlements)
Vasco Marques de Carvalho (CREI & Pompeu Fabra)	Alejo Demian Costa (Merrill Lynch)
Rodrigo De Losso Bueno (FEA/Univ de Sao Paulo)	

University of Chicago: 2011 - 2015

Nina Boyarchenko (FRB New York)	Junghoon Lee (Emory)
Christian Opp (Wharton UPenn)	Ting Zhang (Jacob France Institute-Baltimore)
Jaroslav Borovička (NYU)	Marianne Andries (Toulouse)
Valentin Haddad (Princeton)	Francisco Vazquez-Grande (FRB Board of Governors)

Serhiy Kozak (Michigan)  
Maryam Farboodi (Princeton)  
Philip Barrett (IMF)

Rui Cui (Daley Tang LLC)  
Rasool Zandvakil (IMF)

University of Chicago: 2016-2018

Chen Yeh (UIUC)  
Yinan Su

N. Aaron Pancost (Univ of Texas)  
Fabrice Tourre

University of Chicago 2018-2019

Michael Barnett (Arizona State)  
Paymon Khorrami (Imperial College)  
Willem van Vliet (Chinese University of Hong Kong)  
Lloyd Han (PIMCO)

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## PUBLICATIONS

Hansen, L.P. with Jianjun Miao, "Aversion to Ambiguity and Model Misspecification in Dynamic Stochastic Environments," *Proceedings of the National Academy of Sciences of the United States of America*, 115 (37) 9163-9168, August 2018.

Hansen, L.P., "Time Series Econometrics in Macroeconomics and Finance," *Journal of Political Economy*, 125: 1774-1782, December 2017.

Hansen, L.P. with T.J. Sargent, "The Price of Macroeconomic Uncertainty with Tenuous Beliefs," SSRN working paper, December 2017.

Hansen, L.P., "Survey Measurements of Probabilistic Macroeconomic Perspectives: Challenges and Limitations," *forthcoming in NBER Macroeconomics Annual*, 2017.

Hansen, L.P., "Uncertainty in Economic Analysis and the Economic Analysis of Uncertainty," *KNOW*, July 2017.

Hansen, L.P. with J. Scheinkman, "Stochastic Compounding and Uncertain Valuation," *After the Flood*, Ed Glaeser, Tano Santos and Glen Weyl, Eds., University of Chicago Press, March 2017.

Hansen, L.P. with J. Borovička, "Term Structure of Uncertainty in the Macroeconomy," in "Handbook of Macroeconomics," Vol. 2, Part 2., eds. J.B. Taylor, H. Uhlig., December 2016.

Hansen, L.P., with M. Marinacci, "Ambiguity Aversion and Model Misspecification: An Economic Perspective," *Statistical Science*, January 2017.

Hansen, L.P., with J. Borovička and J. Scheinkman "Misspecified Recovery," *Journal of Finance*, March 2016.

Hansen, L.P., with T.J. Sargent, "Four Types of Ignorance," *Journal of Monetary Economics*, 69: 97-113, January 2015.

Hansen, L.P., "Uncertainty Outside and Inside Economic Models," (Nobel Prize Lecture), *Journal of Political Economy*, 122: 945-987, July 2014.

Hansen, L.P., with J. Borovička and J. Scheinkman "Shock Elasticities and Impulse Responses," *Mathematics and Financial Economics* 8: 333-354, September 2014.

Hansen, L.P., with J. Borovička, "Examining Macroeconomic Models through the Lens of Asset Pricing," *Journal of Econometrics* 183: 67-90, November 2014.

Hansen, L.P., with J. Scheinkman, "Recursive utility in a Markov environment with stochastic growth," *Proceedings of the National Academy of Sciences*, 109(30): 11967-72, July 2012.

Hansen, L.P., "Challenges in Identifying and Measuring Systemic Risk," M.K. Brunnermeier and A. Krishnamurthy, Eds., *Risk Topography: Systemic Risk and Macro Modeling*, Chapter 1, University of Chicago Press, 2012.

Hansen, L.P., "Proofs for Large Sample Properties of Generalized Method of Moments Estimators," *Journal of Econometrica*, 170(2): 325-330, October 2012.

Hansen, L.P., with M. Arellano and E. Sentana, "Underidentification?" *Journal of Econometrics*, 170(2): 256-280, October 2012.

Hansen, L.P., with T.J. Sargent, "Three types of ambiguity," *Journal of Monetary Economics*, 59(5): 422-445, July 2012.

Hansen, L.P., "Dynamic Valuation Decomposition Within Stochastic Economies," *Econometrica* 80(3):911-967, May 2012 (previously titled "Modeling the Long Run: Valuation in Dynamic Stochastic Economies," August 2008).

Hansen, L.P., with E.W. Anderson and T.J. Sargent, "Small Noise Methods for Risk-Sensitive/Robust Economies," *Journal of Economic Dynamics and Control*, 36(4): 468-500, April 2012.

Hansen, L.P., with J. Scheinkman, "Pricing Growth-Rate Risk," *Finance and Stochastics* 16(1): 1-15, January 2012.

Hansen, L.P., "Comments on Housing Price Booms and the Current Account by A. Klaus, P. Kuang, and A. Marcet," *NBER Macroeconomics Annual 2011*, Volume 26.

Hansen, L.P., with J. Borovička, M. Hendricks, and J. Scheinkman, "Risk Price Dynamics; The JFEC Invited Lecture at the 2009 SoFiE Conference," *Journal of Financial Econometrics* 9(1): 3-65, Winter 2011.

Hansen, L.P. with M.K. Brunnermeier, A. Kashyap, A. Krishnamurthy and A.W. Lo, "Modeling and Measuring System Risk," *Ten Years and Beyond: Economists Answer NSF's Call for Long-Term Research Agendas*, August 2011.

Hansen, L.P., with T.J. Sargent, "Robustness and Ambiguity in Continuous Time," *Journal of Economic Theory* 146(3):1195-1223, May 2011.

Hansen, L.P., with T.J. Sargent, "Fragile Beliefs and the Price of Model Uncertainty," *Quantitative Economics* 1(1): 129-162, July 2010.

Hansen, L.P., with X. Chen and M. Carrasco, "Nonlinearity and Temporal Dependence," *Journal of Econometrics* 155(2): 155-169, April 2010.

- Hansen, L.P., with T.J. Sargent, "Wanting Robustness in Macroeconomics," Benjamin M. Friedman and Michael Woodford, Eds., *Handbook of Monetary Economics* 3(11): 1097-1157, 2010.
- Hansen, L.P., with E. Renault, "Pricing Kernels and Stochastic Discount Factors," R. Cont, Ed., *Encyclopedia of Quantitative Finance*, Chapter 19-009, Wiley Press May 2010.
- Hansen, L.P., with Y. Ait-Sahalia and J. Scheinkman "Operator Methods for Continuous-Time Markov Processes," *Handbook of Financial Econometrics* 1(1): 1-66, 2010.
- Hansen, L.P., with R. Mayer and T.J. Sargent, "Robust Hidden Markov LQG Problems," *Journal of Economic Dynamics & Control* 34(10): 1951-1966, October 2010.
- Hansen, L.P., with F. Barillas and T.J. Sargent, "Doubts or Variability?" *Journal of Economic Theory* 144(6): 2388-2419, November 2009.
- Hansen, L.P., with X. Chen and J. Scheinkman, "Nonlinear Principal Components and Long Run Implications of Multivariate Diffusions," *Annals of Statistics* 37(6B): 4279-4312, 2009.
- Hansen, L. P., with J. Scheinkman, "Long Term Risk: an Operator Approach," *Econometrica* 77(1): 177-234, January 2009.
- Hansen, L.P., with J. Heaton and N. Li, "Consumption Strikes Back?: Measuring Long Run Risk," *Journal of Political Economy*, 116(2): 260-302, April 2008.
- Hansen, L.P., with T. Cogley, R. Colacito, and T.J. Sargent, "Robustness and U.S. Monetary Experimentation," *Journal of Money Credit and Banking*, 40(8): 1559-1623, December 2008.
- Hansen, L. P. "Discussion of: Financial Markets and the Real Economy, by J. Cochrane," R. Mehra, Ed., *Handbook of the Equity Risk Premium*, Elsevier Science, 2008.
- Hansen, L.P., with T.J Sargent, "Recursive Robust Estimation and Control Without Commitment," *Journal of Economic Theory* 136(1): 1-27, September 2007.
- Hansen, L. P., with J. Heaton, J. Lee, and N. Roussanov, "Intertemporal Substitution and Risk Aversion," *Handbook of Econometrics* 6(1): 3967-4056, 2007.
- Hansen, L. P. "Generalized Method of Moments Estimation," S. N. Durlauf and L.E. Blume, Eds., *Palgrave Dictionary of Economics*, June 17, 2007.
- Hansen, L.P., "Beliefs, Doubts and Learning: Valuing Macroeconomic Risk; Richard T. Ely Lecture," *American Economic Review* 97(2): 1-30, May 2007.
- Hansen, L.P., with T.J. Sargent, G. Turmuhambetova, and N. Williams, "Robust Control and Model Misspecification," *Journal of Economic Theory* 128(1): 45-90, May 2006.
- Hansen L.P., with P. Maenhout, A. Rustichini, M.M. Siniscalchi, and T.J. Sargent, "Introduction to Model Uncertainty and Robustness," *Journal of Economic Theory* 128 (1): 1-3, May 2006.
- Hansen, L.P., with J. Heaton and N. Li, "Intangible Risk?" C. Corrado, J. Haltiwanger, and D. Sichel, Eds., *Measuring Capital in the New Economy*. Series: (NBER-IW) National Bureau of Economic Research Studies in Income and Wealth, 111-152, 2005.
- Hansen, L.P., with T.J. Sargent, "Robust Estimation and Control Under Commitment," *Journal of Economic Theory* 124(2): 258-301, October 2005.

Hansen, L.P., "Comment on Exotic Preferences for Macroeconomics, By D. K. Backus, B. R. Routledge, and S. E. Zin," M. Gertler and K. Rogoff, Eds., NBER Macroeconomics Annual 2004.

Hansen, L.P., "Value in an Uncertain Economy," Address at the 474<sup>th</sup> Convocation, University of Chicago, 2003.

Hansen, L.P., with E. W. Anderson and T.J. Sargent, "A Quartet of Semigroups for Model Specification, Robustness, Prices of Risk and Model Detection," Journal of the European Economic Association 1(1): 68-123, March 2003.

Hansen, L.P., with T.J. Sargent, "Robust Control of Forward-Looking Models," Journal of Monetary Economics 50(3): 581-604, April 2003.

Hansen, L.P., with M. Cagetti, T.J. Sargent, and N. Williams, "Robustness and Pricing with Uncertain Growth," Review of Financial Studies 15(2): 363-404, March 2002.

Hansen, L.P., with T.J. Sargent and N.E. Wang, "Robust Permanent Income and Pricing with Filtering," Macroeconomic Dynamics 6(1): 40-84, May 2002.

Hansen, L. P. "Generalized Method of Moments Estimation: A Time Series Perspective (published title "Method of Moments")," N. J. Smelser and P. B. Bates Eds. In Chief, S.E. Fienberg and J.B. Kadane Eds. of Methodology: Statistics, International Encyclopedia of the Social and Behavior Sciences, Pergamon: Oxford, December 2001.

Hansen, L.P., with T.J. Sargent, "Acknowledging Misspecification in Macroeconomic Theory," Review of Economic Dynamics 4(3): 519-535, July 2001.

Hansen, L.P., with T.J. Sargent, "Robust Control and Model Uncertainty," American Economic Review 91(2): 60-66, May 2001.

Hansen, L.P., with T.J. Sargent, "An Appreciation of A. W. Phillips," Robert Leeson Ed., A. W. H. Phillips: Collected Works in Contemporary Perspective, Cambridge University Press, 365-369, May 2000.

Hansen, L.P., with T.J. Sargent and T.D. Tallarini, Jr., "Robust Permanent Income and Pricing," Review of Economic Studies 66(4): 873-907, October 1999.

Hansen, L.P., with M. Browning and J.J. Heckman, "Micro Data and General Equilibrium Models," M. Woodford and J.B. Taylor, Ed., Handbook of Macroeconomics, Chapter 8, 1999.

Hansen, L.P., with J. Scheinkman and N. Touzi, "Spectral Methods for Identifying Scalar Diffusions," Journal of Econometrics 86(1): 1-32, September 1998.

Hansen, LP, with T.G. Conley and W.F. Liu, "Bootstrapping the Long Run," Macroeconomic Dynamics, 1(2): 279-311, 1997.

Hansen, LP, with T.G. Conley, E.G.J. Luttmer, and J. Scheinkman, "Short-term Interest Rates As Subordinated Diffusions," Review of Financial Studies 10(3): 525-577, Autumn 1997.

Hansen, L.P., with R. Jagannathan, "Assessing Specification Errors in Stochastic Discount Factor Models," Journal of Finance 52(2):557-590, June 1997.

Hansen, L.P., with J. Heaton and A. Yaron, "Finite-Sample Properties of Some Alternative GMM Estimators," Journal of Business & Economic Statistics 14(3):262-280, June 1996.



Hansen, LP, with E.W. Anderson, E.R. McGrattan, and T.J. Sargent, "Mechanics of Forming and Estimating Dynamic Linear Economies," Handbook of Computational Economics, Chapter 4, 1: 171-252, 1996.

Hansen, L.P., with J.J. Heckman, "The Empirical Foundations of Calibration," Journal of Economic Perspectives 10(1):87-104, Winter 1996.

Hansen, L.P., with K.J. Singleton, "Efficient Estimation of Linear Asset-Pricing Models with Moving Average Errors," Journal of Business & Economic Statistics 14(1):53-68, January 1996.

Hansen, L.P., with J. Heaton and E.G.J. Luttmer, "Econometric Evaluation of Asset Pricing Models," Review of Financial Studies 8(2):237-274, Summer 1995.

Hansen, L.P., with T. J. Sargent, "Discounted Linear Exponential Quadratic Gaussian Control," IEEE Transactions On Automatic Control 40(5):968-971, May 1995.

Hansen, L.P., with J. Scheinkman, "Back To the Future: Generating Moment Implications for Continuous Time Markov-Processes," Econometrica 63(4):767-804, July 1995.

Hansen, L.P., with T. J. Sargent, "Seasonality and Approximation Errors in Rational-Expectations Models," Journal of Econometrics 55:21-55, February 1993.

Hansen, L.P., with J.H. Cochrane, "Asset Pricing Explorations for Macroeconomics," O.J. Blanchard and S. Fischer, Eds., NBER Macroeconomics Annual, 7:115-169, 1992.

Hansen, L.P., with K.J. Singleton, "Computing Semiparametric Efficiency Bounds for Linear Time Series Models," W. A. Barnett, J. Powell and G. E. Tauchen, Eds., Nonparametric and Semiparametric Methods in Econometrics and Statistics, Cambridge University Press 1991, 387-412.

Hansen, L.P., with R. Jagannathan, "Implications of Security Market Data for Models of Dynamic Economies," Journal of Political Economy 99(2):225-262, April 1991.

Hansen, L.P., with T.J. Sargent, "Lecture Notes on Least Squares Prediction Theory," L. P. Hansen and T. J. Sargent, Eds., Rational Expectations Econometrics, Boulder and Oxford: Westview Press 1991, 13-44.

Hansen, L.P., with T.J. Sargent, "Exact Linear Rational Expectations Models: Specification and Estimation," L. P. Hansen and T. J. Sargent, Eds., Rational Expectations Econometrics. Boulder and Oxford: Westview Press 1991, 45-76.

Hansen, L.P., with T.J. Sargent, "Two Difficulties in Interpreting Vector Autoregressions," L. P. Hansen and T. J. Sargent, Eds., Rational Expectations Econometrics. Boulder and Oxford: Westview Press 1991, 77-119.

Hansen, L.P., with W.T. Roberds and T.J. Sargent, "Time Series Implications of Present Value Budget Balance and of Martingale Models of Consumption and Taxes," L. P. Hansen and T. J. Sargent, Eds., Rational Expectations Econometrics, Boulder and Oxford: Westview Press 1991, 121-161.

Hansen, L.P., with J.C. Heaton and T.J. Sargent, "Faster Methods for Solving Continuous Time Recursive Linear Models of Dynamic Economies," L. P. Hansen and T. J. Sargent, Eds., Rational Expectations Econometrics. Boulder and Oxford: Westview Press 1991, 177-208.

- Hansen, L.P., with T.J. Sargent, "Prediction Formulas for Continuous Time Linear Rational Expectations Models," L. P. Hansen and T. J. Sargent, Eds., *Rational Expectations Econometrics*. Boulder and Oxford: Westview Press 1991, 209-218.
- Hansen, L.P., with T.J. Sargent, "Identification of Continuous Time Rational Expectations Models from Discrete Time Data," L. P. Hansen and T. J. Sargent, Eds., *Rational Expectations Econometrics*. Boulder and Oxford: Westview Press 1991, 219-235.
- Hansen, L.P., with M.S. Eichenbaum, "Estimating Models with Intertemporal Substitution Using Aggregate Time-Series Data," *Journal of Business & Economic Statistics* 8(1): 53-69, January 1990.
- Hansen, L.P., with A.R. Gallant and G. Tauchen, "Using Conditional Moments of Asset Payoffs To Infer the Volatility of Intertemporal Marginal Rates of Substitution," *Journal of Econometrics* 45: 141-179, August 1990.
- Hansen, L.P., with M.S. Eichenbaum and K.J. Singleton, "A Time-Series Analysis of Representative Agent Models of Consumption and Leisure Choice Under Uncertainty," *Quarterly Journal of Economics* 103(1): 51-78, February 1988.
- Hansen, L.P., with J. Heaton and M. Ogaki, "Efficiency Bounds Implied by Multiperiod Conditional Moment Restrictions," *Journal of the American Statistical Association*, 83(403): 863-871, September 1988.
- Hansen, L.P., with S.F. Richard, "The Role of Conditioning Information in Deducing Testable Restrictions Implied By Dynamic Asset Pricing-Models," *Econometrica* 55(3): 587-613, May 1987.
- Hansen, L.P., "Calculating Asset Prices in Three Example Economies," T.F. Bewley, Ed., *Advances in Econometrics: Fifth World Congress Volume I*, Cambridge University Press 1987, Chapter 6.
- Hansen, L.P., "Statistical Properties of Generalized Method of Moments Estimators of Structural Parameters Obtained From Financial Market Data – Comment," *Journal of Business & Economic Statistics* 4(4):418-421, October 1986.
- Hansen, L.P., "A Method for Calculating Bounds on the Asymptotic Covariance Matrices of Generalized Method of Moments Estimators," *Journal of Econometrics* 30:203-238, 1985.
- Hansen, L.P., with D. Epple and W. Roberds, "Linear-Quadratic Duopoly Models of Resource Depletion," T.J. Sargent, Ed., *Energy, Foresight, and Strategy*, Washington, D.C.: Resources for the Future 1985, 101-142.
- Hansen, L.P., with R.B. Avery and V.J. Hotz, "Multiperiod Probit Models and Orthogonality Condition Estimation," *International Economic Review* 24(1):21-35, February 1983.
- Hansen, L.P., with T.J. Sargent, "Aggregation Over Time and the Inverse Optimal Predictor Problem for Adaptive Expectations in Continuous Time," *International Economic Review* 24(1):1-20, February 1983.
- Hansen, L.P., with T.J. Sargent, "The Dimensionality of the Aliasing Problem in Models with Rational Spectral Densities," *Econometrica* 51(2):377-387, March 1983.
- Hansen, L.P., with K.J. Singleton, "Stochastic Consumption, Risk Aversion, and the Temporal Behavior of Asset Returns," *Journal of Political Economy* 91(2):249-265, April 1983.

Hansen, L.P. and R.J. Hodrick, "Risk Averse Speculation in the Forward Foreign Exchange Market: An Econometric Analysis of Linear Models," J.A. Frenkel, Ed., Exchange Rates and International Macroeconomics, Chicago, IL: University of Chicago Press, 113-142, 1983.

Hansen, L.P., with K.J. Singleton, "Generalized Instrumental Variables Estimation of Nonlinear Rational Expectations Models," *Econometrica*, 50(5):1269-1286, September 1982. (See also Hansen, L.P., with K.J. Singleton, "Correction," *Econometrica* 52(1):267-268, January 1984)

Hansen, L.P., with T.J. Sargent, "Instrumental Variables Procedures For Estimating Linear Rational Expectations Models," *Journal of Monetary Economics* 9(3):263-296, 1982.

Hansen, L.P., "Consumption, Asset Markets, and Macroeconomic Fluctuations - A Comment," *Carnegie-Rochester Conference Series on Public Policy* 17:239-250, January 1982.

Hansen, L.P., "Large Sample Properties of Generalized Method of Moments Estimators," *Econometrica* 50(4):1029-1054, July 1982.

Hansen, L.P., with T.J. Sargent, "A Note On Wiener-Kolmogorov Prediction Formulas for Rational Expectations Models," *Economics Letters* 8(3): 255-260, 1981.

Hansen, L.P., with T.J. Sargent, "Linear Rational Expectations Models for Dynamically Interrelated Variables," R. E. Lucas Jr. and T. J. Sargent, Eds., *Rational Expectations and Econometric Practice Volume 1*, University of Minnesota Press 1981, 127-156.

Hansen, L.P., with R.J. Hodrick, "Forward Exchange-Rates As Optimal Predictors of Future Spot Rates - An Econometric-Analysis," *Journal of Political Economy* 88(5):829-853, October 1980.

Hansen, L.P., with T.J. Sargent, "Formulating and Estimating Dynamic Linear Rational-Expectations Models," *Journal of Economic Dynamics & Control* 2: 7-46, 1980.

Hansen, L.P., with C.A. Holt and D. Peled, "A Note On First-Degree Stochastic Dominance," *Economics Letters* 1:315-319, 1978.

## BOOKS

Hansen, L.P., with T.J. Sargent. *Uncertainty Within Economic Models*. World Scientific Publishing Company, 2014.

Hansen, L.P., with T.J. Sargent. *Recursive Models of Dynamic Linear Economies*. Princeton University Press, Princeton, NJ, 2013.

Yacine Ait-Sahalia and Hansen, L.P., Editors. *Handbook of Financial Econometrics*. Elsevier Press: Holland, 2009.

Hansen, L.P., with T.J. Sargent. *Robustness*. Princeton University Press, Princeton, NJ, 2007.

Mathias Dewatripont, Lars P. Hansen, and Stephen J. Turnovsky, Editors. *Advances in Economics and Econometrics: Theory and Applications: Eighth World Congress (Econometric Society Monographs)*. Cambridge University Press, 2003.

Hansen, L.P., with T.J. Sargent. Rational Expectations Econometrics, Underground Classics in Economics. Boulder: Westview Press, 1991. (Component papers listed above.)

#### WORKING PAPERS

“Structured Uncertainty and Model Misspecification,” with T.J. Sargent (April 19, 2019)

“Prices of Macroeconomic Uncertainties\* with Tenuous Beliefs,” with T.J. Sargent (April 18, 2019)

“Twisted Probabilities, Uncertainty and Prices,” with T.J. Sargent, Balint Szoke and Lloyd Han (December 21, 2018)

“Risk and Robustness in Equilibrium,” with E.W. Anderson and T.J. Sargent (March 8, 1998)

“Principal Components and the Long Run,” with X. Chen and J. Scheinkman (November 2005)

“Wrestling with Uncertainty in Climate Economic Models,” with William Brock (October, 2018)

#### INTERVIEWS

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