Veronika Czellar, PhD

Professor – Speciality : Econometrics

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EDUCATION

09/2006 **PhD in Econometrics and Statistics**
University of Geneva
Title: "Small Sample Properties of Indirect Inference with Applications to Stochastic Differential Equations". Supervisor: Prof. Elvezio Ronchetti

09/2002 **Master's degree in Econometrics**
University of Geneva

07/2000 **Bachelor's degree in Mathematics, minor in Economics and Finance**
University of Geneva

1988-1996 **Secondary and highschool education** in Russia, Finland and Switzerland

ACADEMIC APPOINTMENTS AND VISITING POSITIONS

09/2015- **Professor, Dept. of Accounting, Law, Finance and Economics**
EDHEC Business School

04/15-08/15 **Associate Professor, Dept. of Economics, Finance and Control**
EMLYON Business School

09/13-04/15 **Assistant Professor, Dept. of Economics, Finance and Control**
EMLYON Business School

09/07-09/13 **Assistant Professor, Dept. of Economics and Decision Sciences**
HEC Paris

01/08-03/08 **Visiting Scholar, Dept. of Economics**
University of Washington

10/06-09/07 **Postdoctoral Fellow, Dept. of Statistics**
University of Washington

09/03-03/04 **Visiting Scholar, Dept. of Finance**
Fisher College of Business, The Ohio State University

09/00-07/06 **Teaching Assistant, Dept. of Econometrics**
University of Geneva

TEACHING

2007-2015 **Statistics, Master in Management**
EMLYON (2014 - 2015) and HEC Paris (2007, 2013)
Videos of the lectures and course material available on iTunes U (117 007 subscribers between July 4 2012 and September 2 2015):
http://itunes.apple.com/fr/course/statistics/id542118413
A preview of the course is available at:
https://studies2.hec.fr/jahia/webdav/site/hec/shared/sites/czellarv/acces_anonyme/StatisticsCourseUSerExperience2.mov

2010-2015 **Financial Econometrics, Master of Quantitative Economics and Finance**
HEC Paris

2013-2014 **Portfolio Management, Master in Management**
EMLYON

2013-2014 **Time Series, Specialised Master in Quantitative Finance**
EMLYON

2013-2014 **Visual Basic for Applications, Master in Management**
EMLYON

2013-2014 **Mathematics for Finance, Specialised Master in Quantitative Finance**
EMLYON

2008-2012 **Statistics for Management, PhD Course**
HEC Paris

2007 **Vector Calculus and Linear Algebra, Master in Management**
HEC Paris

2007-2008 **Elements of Mathematical Statistics, Master in Management**
HEC Paris

2007 **Probability and Statistics in Engineering and Science**
University of Washington

RESEARCH INTERESTS

- Simulation-based methods (particle filters, indirect inference)
- Robust statistics
- Financial econometrics

RESEARCH PAPERS

Work in Progress

• "Asymmetric Stochastic Volatility Models: Properties and Estimation", with Xiuping Mao, Esther Ruiz and Helena Veiga, under review

• "Estimating Inertia in Stock Market Participation", with François Le Grand, manuscript

• "Structural Dynamic Analysis of Systematic Risk", with Laurent Calvet and Christian Gouriéroux, manuscript

• "Robust Approximate Bayesian Computation Filtering", manuscript

• "MultifractalMarkov-Switching Trading Volume", with Laurent Calvet, Adlai Fisher and Charles Martineau, manuscript

Publications

• "Robust Filtering", with Laurent Calvet and Elvezio Ronchetti (2014), Journal of the American Statistical Association, forthcoming, DOI: 10.1080/01621459.2014.983520

• "Through the Looking Glass: Indirect Inference Via Simple Equilibria" (2015), with Laurent Calvet, Journal of Econometrics, vol. 185, issue 2, 343–358.

• "Accurate Methods for Approximate Bayesian Computation Filtering" (2014), with Laurent Calvet, Journal of Financial Econometrics, forthcoming, DOI: 10.1093/jjfinec/nbu019

• "Accurate and Robust Tests for Indirect Inference" (2010), with Elvezio Ronchetti, Biometrika, vol. 97, issue 3, 621–630

• "Accurate and Robust Indirect Inference for Diffusion Models" (2008), with Elvezio Ronchetti, Cahiers du Département d'Econom´etrie, University of Geneva, No 2008.01

• "Indirect Robust Estimation of the Short-term Interest Rate Process" (2007), with G. Andrew Karolyi and Elvezio Ronchetti, Journal of Empirical Finance, vol. 14, issue 4, 546–563

TALKS

• March 4, 2015: "Robust Filtering," Research seminar, Università degli Studi di Verona (Italy)

• October 31, 2014: "Accurate Methods for Approximate Bayesian Computation Filtering, " Research seminar, Universidad Carlos III de Madrid (Spain)

• August 23, 2014: "Accurate Methods for Approximate Bayesian Computation Filtering," Satellite meeting of COMPSTAT 2014, Neuchâtel (Switzerland)

• August 19, 2014: “Robust Filtering,” 21st International Conference on Computational Statistics, Geneva (Switzerland)

• June 26, 2014: “Accurate Methods for Approximate Bayesian Computation Filtering,” 8th R/Rmetrics Workshop, Collège des Bernardins, Paris (France)

• May 30, 2014: “Accurate Methods for Approximate Bayesian Computation Filtering,” Conference on Indirect Estimation Methods in Finance and Economics, Abbey Hegne (Germany)

• December 15, 2013: “Accurate Methods for Approximate Bayesian Computation Filtering,” 6th International Conference on Computing and Statistics (ERCIM 2013), London (UK)

• December 5, 2013: “Robust Filtering,” Research Seminar in Econometrics and Finance at INSEE-CREST, Paris (France)

• December 2, 2012: “Robust Filtering,” 5th International Conference on Computing and Statistics (ERCIM 2012), Oviedo (Spain)

• August 6, 2012: “Robust Filtering,” International Conference on Robust Statistics, Burlington (USA)

• August 1, 2012: “Robust Filtering,” Joint Statistical Meetings, San Diego (USA)

• November 18, 2011: “State-Observation Sampling,” Research Seminars in Statistics, University of Geneva (Switzerland)

• June 10, 2011: “State-Observation Sampling and the Econometrics of Learning Models,” Finance and Statistics Workshop, HEC Paris, Jouy en Josas (France)

• October 8, 2010: “Efficient Estimation of Learning Models,” Second HEC Finance and Statistics Conference, Paris (France)

• August 19, 2010: “Efficient Estimation of Learning Models,” Econometric Society World Congress, Shanghai (China)

• July 16, 2010: “Efficient Estimation of Learning Models,” 14th International Conference on Computing in Economics and Finance, London (UK)

• July 7, 2010: “Efficient Estimation of Learning Models,” International Symposium on Business and Industrial Statistics, Portoroz (Slovenia)

• June 28, 2010: “Accurate and Robust Tests for Indirect Inference,” International Conference on Robust Statistics, Prague (Czech Republic)

• May 22, 2010: “Efficient Estimation of Learning Models,” Toulouse School of Economics Financial Econometrics Conference, Toulouse (France)

• October 30, 2009: “Accurate and Robust Tests for Indirect Inference,” 3rd International Workshop on Computational and Financial Econometrics, Limassol (Cyprus)

• October 2, 2009: “Accurate and Robust Tests for Indirect Inference,” HEC Finance and Statistics Conference, Paris (France)

• July 16, 2008: “Second-order Accurate and Robust Indirect Inference with Applications to Diffusion Models,” Far Eastern and South Asian Meeting of the Econometric Society, Singapore Management University (Singapore)

• June 26, 2008: “Second-order Accurate and Robust Indirect Inference with Applications to Diffusion Models,” 14th International Conference on Computing in Economics and Finance, University of Sorbonne, Paris (France)

• June 21, 2008: “Second-order Accurate and Robust Indirect Inference,” 2nd International Workshop on Computational and Financial Econometrics, Neuchâtel, (Switzerland)

• April 25, 2008: “Improved Inference for Efficient Method of Moments and Indirect Inference Estimators,” Seminars in Econometrics and Statistics, Katholieke Universiteit Leuven, Leuven (Belgium)

• April 11, 2008: “Second-order Accurate and Robust Indirect Inference,” Research Seminars in Statistics, University of Geneva, Geneva (Switzerland)

• February 4, 2008: “Second-order Accurate and Robust Indirect Inference,” Dept. of Statistics, University of Washington, Seattle (USA)

• October 11, 2007: “Second-order Accurate and Robust Indirect Inference,” European Center for Advanced Research in Economics and Statistics, Université Libre de Bruxelles, Bruxelles (Belgium)

• June 23, 2007: “Indirect Inference and Efficient Method of Moments: Practical Issues and Finite Sample Comparison,” 2007 North American Summer Meetings of the Econometric Society, Duke University (USA)

• June 15, 2007: “Indirect Inference and Efficient Method of Moments: Practical Issues and Finite Sample Comparison,” 13th International Conference on Computing in Economics and Finance, HEC Montréal (Canada)

• April 20, 2007: “Indirect Inference and Efficient Method of Moments: Practical Issues and Finite Sample Comparison,” 1st InternationalWorkshop on Computational and Financial Econometrics, Geneva (Switzerland)

• April 19, 2007: “Indirect Robust Inference with Application to Diffusion Models,” Dept. of Statistics, University of Oxford, Oxford (UK)

• April 11, 2007: “Indirect Robust Inference with Application to Diffusion Models,” Center for Statistics and the Social Sciences, University of Washington, Seattle (USA)

• February 27, 2007: "Indirect Robust Estimation of the Short-term Interest Rate Process," Dept. of Economics, University of Washington, Seattle (USA)

• June 28, 2006: "Second-order Accurate and Robust Indirect Inference," 9-th International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius (Lithuania)

• March 10, 2006: "Indirect Robust Estimation of the Short-term Interest Rate Process," SSES Annual Meeting, Lugano (Switzerland)

• February 10, 2006: "Indirect Robust Estimation of the Short-term Interest Rate Process," Dept. of Mathematics and Statistics, Boston University (USA)

• November 16, 2005: "Indirect Robust Inference with Application to Stochastic Differential Equations," School of Mathematics, The University of Manchester (UK)

• June 3, 2005: "Indirect Robust Estimation of the Short-term Interest Rate Process," Conference on Changing Structures in International and Financial markets and the Effects on Financial Decision Making, Venice (Italy)

• January 11, 2005: "Indirect Robust Estimation of the Short-term Interest Rate Process," The Second Bachelier Colloquium on Stochastic Calculus and Finance, Métabief (France)

• October 29, 2004: "Indirect Robust Estimation of the Short-term Interest Rate Process," Dept. of Econometrics, University of Geneva (Switzerland)

• September 26, 2004: "Indirect Robust Estimation of the Short-term Interest Rate Process," International Conference on Stochastic Finance, ISEG, Lisbon (Portugal)

• September 17, 2004: "Indirect Robust Estimation of the Short-term Interest Rate Process," Dept. of Finance, Fisher College of Business, The Ohio State University (USA)

CONFERENCE ORGANIZATION

• December 12 - 14, 2015: session organizer on "Indirect inference and related methods," at the 9th International Conference on Computational and Finance Econometrics (CFE 2015), London (UK)

• December 1 - 3, 2012: session organizer on "Particle filtering," at the 5th International Conference on Computing and Statistics (ERCIM 2012), Oviedo (Spain)

• June 10, 2011: "HEC Finance and Statistics Workshop," organizer (jointly with Laurent Calvet and Tomasz Michalski), HEC Paris, Jouy en Josas (France)

• October 8, 2010: "Second HEC Finance and Statistics Conference," organizer (jointly with Laurent Calvet), Pavillon Gabriel, Paris (France)
Web Page: https://itunes.apple.com/fr/itunes-u/2nd-hec-finance-statistics/id425344280

• October 2, 2009: "HEC Finance and Statistics Conference," organizer (jointly with Laurent Calvet), Pavillon Gabriel, Paris (France)
Web Page: http://www.hec.fr/News-Room/Actualites/HEC-Finance-and-Statistics-Conference-

• August 31 - September 4, 2009: "Stats in the Château," summer school organizer (jointly with Pierre Alquier, Alfred Galichon, Eric Gautier and Gilles Stoltz), CRC castle, Jouy en Josas (France) Web Page: http://www.hec.fr/statsinthechateau

• 2008-2009: "Econometrics and Statistics Seminar," organizer (jointly with Laurent Calvet), HEC Paris (France)

• June 26 - 28, 2008: session organizer at the 14th International Conference on Computing in Economics and Finance, University of Sorbonne, Paris (France)

AWARDS AND PRIZES

• September 2010: Grant from the Europlace Institute of Finance for the project "Learning Investor Sentiment and Market Mispricing in Real Time" (with Laurent Calvet)

• July 2010: Best y-BIS Paper Award 2010 for "Efficient Estimation of Learning Models" (with Laurent Calvet), provided by the American Statistical Association and the National Institute of Statistical Sciences

• October 2006 – September 2007: Swiss National Science Foundation fellowship

• September 2004 –March 2005: Carrière Académique support for academic women

• September 2003 –March 2004: Lombard Odier Darier Hentsch & Cie fellowship

iTunes U

• My Statistics course at HEC Paris taught between March and June 2012 is a full featured iTunes U course, available at:
http://itunes.apple.com/fr/course/statistics/id542118413

• The Second HEC Finance and Statistics conference I co-organized with Laurent Calvet is available at:
http://itunes.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=425344280

DOCTORAL COMMITTEE MEMBERSHIP

• Marcus Fearnley (graduated on January 22, 2013, Dept. of Finance, HEC Paris)

• Peter Fuleky (graduated on November 20, 2009, Dept. of Economics, University of Washington)

UNIVERSITY SERVICE

Organization of statistics recruiting with interviews at the Joint Statistical Meetings in Vancouver, July 31 - August 5 2010

REFEREEING AND MEMBERSHIPS

• Refereed for: Econometric Reviews, Econometric Theory, Journal of Applied Econometrics, Journal of Econometrics, Journal of Empirical Finance, Journal of Multivariate Analysis, Journal of the Royal Statistical Society B, Statistics and Probability Letters
• Member: American Statistical Association, Econometric Society

LANGUAGES

• English
• French
• Hungarian (mother tongue)
• Russian