14th January 2015

CURRICULUM VITAE

Name: OSTAP OKHRIN

Address: Ladislaus von Bortkiewicz Chair of Statistics

C.A.S.E. - Center for Applied Statistics and

Economics

School of Business and Economics Humboldt-Universität zu Berlin Spandauer Straße 1, Room 405 D-10178 Berlin, Germany

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Photo: Axel Stephan, Hochschulverband

Birth date and place: May 23, 1984; Lviv, Ukraine

Marital status: married to Dr. Iryna Okhrin since Sep. 2007

(daughter Sophie born in Dec. 2011, son Martin born in Jun. 2013)

Citizenship: Ukrainian (with permanent residentship for Germany)

Languages native Ukrainian, fluent in English, German, Russian, some Polish

PROFESSIONAL POSITIONS - WERDEGANG

Apr. 2014 – Associate Professor (W2) at the

Ladislaus von Bortkiewicz Chair of Statistics, Humboldt-Universität zu Berlin, Germany

Apr. 2008 - Mar. 2014 Assistant Professor (W1) at the

Ladislaus von Bortkiewicz Chair of Statistics, Humboldt-Universität zu Berlin, Germany

Feb. 2006 - Mar. 2008 Research Fellow at the Department of Statistics,

European University Viadrina, Frankfurt (Oder), Germany

EDUCATION - AUSBILDUNG

Feb. 2008 Ph.D. in Economics with summa cum laude

European University Viadrina, Frankfurt (Oder), Germany

Ph.D. thesis title "Hierarchical Archimedean Copula: Structure Determina-

tion, Properties, Applications"

Supervisor: Prof. Dr. Wolfgang Schmid

June 2005 M.Sc. in Statistics with summa cum laude

Ivan Franko National University of Lviv, Ukraine

Master thesis title "Asymptotic behavior of the S-stopped branching pro-

cesses with the countable number of types of particles"

Supervisor: Prof. Dr. Yaroslav Yeleyko

June 2004 Bachelor in Mathematics

Ivan Franko National University of Lviv, Ukraine

Supervisor: Prof. Dr. Yaroslav Yeleyko

June 2000 Lviv Academic Gymnasium, Ukraine

RESEARCH INTERESTS - FORSCHUNGSGEBIETE

Quantitative Methods in Economics
Credit Risk (CDO)

Applied Econometrics

Modeling of Weather

Multivariate Distributions (Copulae)
Adaptive Methods

TEACHING - LEHRE

Undergraduate level

Statistics I (tutorials (SS 07, 08) and lectures (SS 09, 10, 11, 14), in German/English)

Statistics II (tutorials (WS07/08) and lectures (WS08/09), in German)

Investments (tutorials (SS05), in Ukrainian)

Master level (lectures in English)

Statistics of Financial Markets I (WS10/11)

Statistics of Financial Markets II (SS11, 13)

Multivariate Statistical Analysis I (WS 09/10, 10/11, 12/13, 14/15)

Multivariate Statistical Analysis II (SS08, 13, 14)

Statistical Programming Languages (SS09)

Financial Econometrics (SS14)

PhD Level (lectures in English)

Statistical Tools in Finance and Insurance (WS 08/09, 09/10 (Socrates Program for lecturers

in Wroclaw, Poland), WS11/12, WS 13/14)

Selected Topics of Mathematical Statistics (WS 11/12–14/15)

HONORS AND AWARDS - AUSZEICHNUNGEN

Sep. 2005 - Feb. 2006 Scholarship within the Ph.D. program "Financial and capital markets in

enlarged Europe", Frankfurt (Oder), Germany

16 March 2004 Third place at the first stage of the All-Ukrainian Olympiad in Programming,

Lviv, Ukraine

3-5 May 2003	1st place in the Fifth All-Ukrainian Exhibition-Competition "Computer and Student", Lviv, Ukraine
19-21 April 2002	3rd place in the Fourth All-Ukrainian Exhibition-Competition "Computer and Student", Lviv, Ukraine
15 May 2000	3rd place at the third stage of the "All-Ukrainian Exhibition-Competition of the works of the Small Academy of Sciences", Lviv, Ukraine
May 2000	3rd place at the second stage of the "All-Ukrainian Exhibition-Competition of the works of the Small Academy of Sciences", Lviv, Ukraine
May 1999	2rd place at the second stage of the "All-Ukrainian Exhibition-Competition of the works of the Small Academy of Sciences", Lviv, Ukraine

PROF. ACTIVITIES - BERUFL. TÄTIGKEITEN

Co-organizer of the

Humboldt-Princeton Conference, Princeton, USA, November 2013

Section on "Copulae" in "Applicable Semiparametrics", Berlin, Germany, October 2013

Section on "Statistics in Finance, Insurance and Banking" in "DAGStat 2013 - Statistics under one umbrella", Freiburg, Germany

Copulae in Mathematical and Quantitative Finance, Cracow, Poland, July 2012

Märkische Schweiz Summer School on Statistics in Finance and Insurance, Berlin, Germany, May 2012

Section on "Finanzstatistik" in "Statistische Woche 2011", Leipzig, Germany

C.A.S.E. Distinguished Lecture Series 2011, Berlin, Germany, January 2011

Workshop on "Copulae: Theory and Practice", Berlin, Germany, December 2007

4th All-Ukrainian Scientific Conference for Graduate and Postgraduate "Theoretical and Applied Aspects of the Analysis of the Financial Systems", Lviv, Ukraine, May 2005

3rd All-Ukrainian Scientific Conference for Graduate and Postgraduate, Lviv, Ukraine, April 2004

Scientific Committee of the

Copulae in Mathematical and Quantitative Finance, Crakow, Poland, July 2012

Humboldt-Copenhagen Conference, Berlin, Germany, March 2009

Member of the

BDPEMS - Berlin Doctoral Program in Economics & Management Science (http://www.doctoralprogram.de)

commission of the Master of Science in Statistics (www.stat.de)

Hochschulverband, Deutsche Statistische Gesellschaft, Econometric Society

Head of the sub/projects

- 2013- Project "Copulae" in IRTG 1792 "High Dimensional Non Stationary Time Series"
- 2011–2012 "Entwicklung dynamisches Marktmodell" (F249), financed by Deutsche Telekom (50K Euro)
- 2008– "Copulae in Finance" in the C.A.S.E. Center for Applied Statistics and Economics
- 2008– B10: "Dynamic Copula Models" in the CRC 649 (150K Euro)

Associate Editor

- 2015— Editorial Advisory Board of Dependence Modeling, http://www.degruyter.com/view/j/demo
- 2010- AStA Advances in Statistical Analysis, http://link.springer.com/journal/10182
- 2011- Computational Statistics, http://link.springer.com/journal/180
- guest Editor of Special Issue on "Copulae" in Statistics and Risk Modeling
- guest Editor with S. Trück of Special Issue on "Applicable Semiparametrics" in *Computational Statistics*

Referee

• Econometrica, Journal of the American Statistical Association, Journal of Business & Economic Statistics, Journal of Multivariate Analysis, Statistics, Quantitative Finance, Computational Statistics and Data Analysis, Journal of Time Series Analysis, Electronic Journal of Statistics, Nonlinear Analysis, AStA Advances in Statistical Analysis, Computational Statistics, The Quarterly Review of Economics and Finance, Metrika, Canadian Journal of Statistics, Agricultural Finance Review, International Review of Economics & Finance, International Journal of Approximate Reasoning, European Journal of Operational Research, Proceedings of Rijeka School of Economics: Journal of Economics and Business, Dependence Modeling, International Journal of Computational Economics and Finance, International Journal of Information Technology & Decision Making, Transaction of Knowledge and Data Engineering, Statistics and Computing.

Other

- Package for R on HAC: http://mirrors.softliste.de/cran/web/packages/HAC with A. Ristig
- 2013- Coordinator cooperation HU Berlin- ENSAE Paris, ENSAI Rennes
- 2011–2014 Head of the Local Electorial Board in School of Business and Economics, HU-Berlin

REFEREED PUBLICATIONS - REFERIERTE PUBLIKATIONEN

Hidden Markov structures for dynamic copulae, forthcoming in *Econometric Theory*, DOI: http://dx.doi.org/10.1017/S0266466614000607 (with W. K. Härdle, W. Wang)

Managing Risk with a Realized Copula Parameter, forthcoming in *Computational Statistics and Data Analysis*, DOI: 10.1016/j.csda.2014.07.011 (with M. R. Fengler).

Estimation procedures for exchangeable Marshall copulas with hydrological application, *Stochastic Environmental Research and Risk Assessment* 29, 2015, pp 205–226, DOI: 10.1007/s00477-014-0866-7 (with F. Durante) (IF 1.961).

Hierarchical Archimedean Copulae: The HAC Package, *Journal of Statistical Software* 58(4), 2014, pp 1–20, (with A. Ristig) (IF 2.647, http://www.jstatsoft.org/v58/i04)

Conditional Least Squares and Copulae in Claims Reserving for a Single Line of Business, *Insurance: Mathematics and Economics* 56, 2014, pp 28–37, DOI: 10.1016/j.insmatheco.2014.02.007 (with M. Pešta)

Modelling general dependence between commodity forward curves, *Energy Economics* 43, 2014, pp 284–296, DOI: 10.1016/j.eneco.2014.02.019 (with M. Zolotko)

Determining the structure and estimation of hierarchical Archimedean copulas, *Journal of Econometrics* 173 (2), 2013, pp 189-204, DOI: 10.1016/j.jeconom.2012.12.001 (with Y. Okhrin and W. Schmid)

Editorial to the special issue on Copulae of Statistics & Risk Modeling, *Statistics and Risk Modeling* (former Statistics and Decisions), 30(4), 2013, pp 281–286, DOI: 10.1524/strm.2013.9014.

Dynamic Structured Copula Models, *Statistics and Risk Modeling* (former Statistics and Decisions), 30(4), 2013, pp 361–388, DOI: 10.1524/strm.2013.2004 (with W. K. Härdle, Y. Okhrin)

Valuation of Collateralized Debt Obligations with Hierarchical Archimedean Copulae, *Journal of Empirical Finance* 24, 2013, pp 42–62, DOI: 10.1016/j.jempfin.2013.08.001 (with W. K. Härdle and B. Choroś-Tomczyk)

Properties of hierarchical Archimedean copulas, *Statistics and Risk Modeling* (former Statistics and Decisions) 30 (1), 2013, pp 21-53, DOI: 10.1524/strm.2012.1071 (with Y. Okhrin and W. Schmid)

Systemic Weather Risk and Crop Insurance: The Case of China, *Journal of Risk and Insurance* 80(2), 2013, pp 351–372, DOI: 10.1111/j.1539-6975.2012.01476.x (with M. Odening and W. Xu)

On the Generating Functional of the special case of *S*-Stopped Branching Processes, *Visn. L'viv. Univ., Ser. Mekh.-Mat. (Bulletin of the Lviv University)*, Series in Mechanics and Mathematics: 74, 2011, pp. 157-167 (preprint available at http://arxiv.org/abs/1108.1675)

On the Systemic Nature of Weather Risk. *Agricultural Finance Review*: 70(2), 2010, pp. 267-284 (with M. Odening, G. Filler and W. Xu).

De copulis non est disputandum, *AStA - Advances in Statistical Analysis*: 94(1), 2010, pp. 1-31 (with W. K. Härdle)

Asymptotic behavior of the S-stopped branching processes with countable state space, Visn. L'viv. Univ., Ser. Mekh.-Mat. (Bulletin of the Lviv University), Series in Mechanics and Mathematics: 67, 2007, pp. 119-129. (with Y. Yeleyko and I. Kyrychynska, preprint available at http://arxiv.org/abs/1108.1513)

OTHER PUBLICATIONS - ANDERE PUBLIKATIONEN

Can expert knowledge compensate for data scarcity in crop insurance pricing?, Selected paper AAEA Annual Meeting 2013, Washington D.C. (with Z. Shen and M. Odening)

Modeling Time-Varying Dependencies between Positive-Valued High-Frequency Time Series, in: P. Jaworski, F. Durante and W.K.Härdle (eds.), *Copulae in Mathematical and Quantitative Finance*, (2013), Springer Verlag. (with A. Ristig and N. Hautsch)

HMM and HAC, Advances in Intelligent Systems and Computing Volume 190, 2013, pp 341-348, DOI 10.1007/978-3-642-33042-1_37 (with W. K. Härdle and W. Wang)

CDO Pricing with Copulae, *In Bulletin of the International Statistical Institute, 57th Session Durban Vol. 57. Bulletin of the International Statistical Institute,* 2009, (with B. Choroś and W. K. Härdle)

Fitting high-dimensional Copulae to Data, in: J.-C. Duan, J. E. Gentle, and W. K. Härdle (eds.), *Handbook of Computational Finance*, (2011) Springer Verlag, pp. 469-503.

Modeling Dependencies with Copulae, in: W. K. Härdle, N. Hautsch and L. Overbeck (eds.), *Applied Quantitative Finance*, second ed. (2008), Springer Verlag, pp. 3-36. (with W. K. Härdle and Y. Okhrin)

Portfolio selection based on the internal yield requirement, proceedings of 7th international workshop for young mathematicians: Applied Mathematics, Cracow, 2005, pp. 131-149 (with I. Yatsyshynets and Y. Yeleyko)

Renewal theory and stock returns, *Applied statistics*. *Actuarial and Financial Mathematics*. #1-2, pp. 217-218, 2004 (with Y. Yeleyko, in ukrainian)

PAPERS IN PROGRESS – VERÖFFENTLICHUNGEN

Efficient Iterative Maximum Likelihood Estimation of High-Parameterized Time Series Models, reject but encourage resubmission in *Journal of Econometrics* on 28.05.2014 (with N. Hautsch and A. Ristig)

Goodness-of-fit Test For Specification of Semiparametric Copula Dependence Models, revised and resubmitted to the *Journal of Econometrics* on 02.12.2014 (with Shulin Zhang, Qian M. Zhou and Peter X.-K. Song)

Localising temperature risk, submitted on 03.08.2014 (with W. K. Härdle, B. López Cabrera, W. Wang)

Can expert knowledge compensate for data scarcity in crop insurance pricing?, second time revised and resubmitted to *European Review of Agricultural Economics* on 05.01.2015 (with M. Odening and Z. Shen)

CDO Surfaces Dynamics, submitted to the *Journal of Multivariate Analysis* on 22.11.2014 (with W. K. Härdle and B. Choroś-Tomczyk)

Modelling spatiotemporal variability of temperature, revised and resubmitted to *Computational Statistics* on 01.12.2014 (with X. Cao, M. Odening and M. Ritter)

CONFERENCES - KONFERENZEN

- Dec. 2014 CFE-ERCIM, Pisa, Italy
- Oct. 2014 Humboldt-Aarhus-Xiamen Workshop 2014, Berlin, Germany
- Sep. 2014 Joint Meeting of the German Mathematical Society (DMV) and the Polish Mathematical Society (PTM), Poznan, Poland
- Sep. 2014 Statistische Woche 2014, Hannover, Germany (co-responsible for the Nachwuchsworkshop)
- Aug. 2014 21st International Conference on Computational Statistics, Genf, Switzerland
- Jul. 2014 Workshop "Non- and Semiparametric Volatility and Correlation models", Paderborn, Germany
- May 2014 Workshop "Methods and Challenges in Financial Risk Measurement", Kloester Druebeck, Germany

- Nov. 2013 Princeton-Humboldt Conference, Princeton, USA
- Nov. 2013 Invited talk at "DyMaMo Konferenz 2013", organized by Deutsches Telekom AG, Bonn, Germany
- Sep. 2013 Statistische Woche 2013, Berlin, Germany
- Sep. 2013 Workshop "Copula modeling: New challenges and techniques", München, Germany
- Apr. 2013 MCTN Conference, Konstanz, Germany
- Dec. 2012 Invited talk at the CFE-ERCIM 2012, Oviedo, Spain
- Sep. 2012 6th International Conference on Soft Methods in Probability and Statistics, Konstanz, Germany
- Sep. 2012 International Conference dedicated to 120-th anniversary of STEFAN BANACH, Lviv, Ukraine
- Jul. 2012 Copulae in Mathematical and Quantitative Finance, Cracow, Poland
- May 2012 Märkische Schweiz Summer School on Statistics in Finance and Insurance, Bukow, Germany
- May 2012 Methods and Challenges in Financial Risk Measurement 2012, Kloester Druebeck, Germany
- Apr. 2012 Workshop on "Risk and Dependence in Economics and Finance", Bolzano, Italy
- Jan. 2012 Energy Finance Workshop, Stolberg (Harz), Germany
- Oct. 2011 Workshop on "Statistical Analysis of Financial Data", Rijeka, Croatia
- Sep. 2011 Statistische Woche 2011, Leipzig, Germany
- Aug. 2011 ISI 2011, Dublin, Ireland
- Jun. 2011 IME 2011, Trieste, Italy
- Jun. 2011 ASMDA 2011, Rome, Italy
- May 2011 Invited talk at "4th Workshop on Vine Copula Distributions and Applications", München, Germany
- Jan. 2011 Risk Calibration Workshop, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan
- Dec. 2010 Invited talk at the CFE-ERCIM 2010, London, UK
- Sep. 2010 Statistische Woche 2010, Nuremberg, Germany
- Jul. 2010 Symposium on "High-Dimensional Data in Empirical Finance", Dortmund, Germany (invited discussant)
- Jun. 2010 Symposium on "Computational Finance", Singapore (session chair)
- Mar. 2010 DAGStat 2010, Dortmund, Germany
- Mar. 2010 Workshop on "High-Dimensional Data Analysis in Economics", Zagreb, Croatia
- Oct. 2009 Perceiving and Measuring Financial Risk: Credit, Energy and Illiquidity, Princeton, USA (session chair)
- Oct. 2009 Statistische Woche 2009, Wuppertal, Germany
- Sep. 2009 Workshop on "Copula Theory and its Applications", Warsaw, Poland
- Jul. 2009 The 64th European Meeting of the Econometric Society and the 24th Annual Congress of the European Economic Association, EEA-ESEM 2009, Barcelona, Spain
- Jul. 2009 Invited talk at the International Symposium on Risk Management and Derivatives 2009, Xiamen, China

Invited talk at the 4^{th} World Conference of the IASC 2008, Yokohama, Japan Dec. 2008 International Conference on Price, Liquidity, and Credit Risk, Konstanz, Germany Oct. 2008 Sep. 2008 First Summer School on Copulas, Linz, Austria Mar. 2008 8^{th} German Open Conference on Probability and Statistics, Aachen, Germany (session chair) Dec. 2007 Workshop on "Copulae: Theory and Practice", Berlin, Germany May 2007 Radon Workshop on Financial and Actuarial Mathematics for Young Researchers, Linz, Austria Mar. 2007 Statistik Unter einem Dach, DAGStat, Bielefeld, Germany Sep. 2005 7th International Workshop for Young Mathematicians: Applied Mathematics, Cracow, Poland May 2005 4th All-Ukrainian Scientific Conference for Graduate and Postgraduate "Theoretical and Applied Aspects of the Analysis of the Financial Systems", Lviv, Ukraine Apr. 2004 Economics in the Postcommunist Countries under Globalization, Lviv, Ukraine Apr. 2004 3rd All-Ukrainian Scientific Conference for Graduate and Postgraduate, Lviv, Ukraine Apr. 2004 7th All-Ukrainian Students Scientific Conference in Programming and Applied Mathematics, Lviv, Ukraine

Problems and Perspectives of the Ukrainian's Finance-Credit System, Lviv, Ukraine

RESEARCH VISITS - FORSCHUNGSAUFENTHALTE

1–7.09.2014	Department of Statistics and Operations Research, Univertsität Wien, hosted by N. Hautsch, Vienna, Austria
10-17.03.2013	Department of Mathematics, Instituto Superior Técnico Lisbon, hosted by M. C. Morais, Lisbon, Portugal
3–10.03.2013	Economics Department, Universidad Carlos III de Madrid, hosted by A. Taamouti, Madrid, Spain
29.09-05.10.2012	Faculty of Economics at the University of Rijeka, hosted by S. Zikovic, Rijeka, Croatia
15–25.05.2012	Stevanovitch Center for Financial Mathematics at the University of Chicago, hosted by P. Mykland, Chicago, USA
7-22.04.2012	Chair of Statistics, Universität Augsburg, hosted by Yarema Okhrin, Augsburg, Germany
1–31.03.2012	Faculty of Biostatistics, University of Michigan, hosted by Peter X. Song, Ann Arbor, USA
21.02-22.03.2011	ORFE, Princeton University, hosted by J. Fan, Princeton, USA
10-21.01.2011	Academia Sinica, hosted by CD. Fuh, Taipei, Taiwan

SEMINARS – SEMINARE

Mar. 2004

Nov. 2014	Presentation at the Collaborative Research Centre 823, TU Dortmund, Germany
Mar. 2012	Statistics Seminar in the IOMS/Statistics Group, NYU Stern School of Business, organized by Rohit Deo, New York, USA
Feb. 2011	Brown Bag Seminar at the University of Michigan, Organized by P. X. Song, Ann Arbor, USA

- Feb. 2011 Financial Mathematics Seminar at The Stevanovitch Center for Financial Mathematics at the University of Chicago, Organized by P. Mykland, Chicago, USA
- Feb. 2011 Research in Econometrics Seminar at Harvard University, Organized by R. Ibragimov, G. Chamberlain, Cambridge, USA
- Jan. 2011 Seminar at the Sun Yat-Sen University, Organized by M.-H. Guo, Kaohsiung, Taiwan
- Jan. 2011 2011 NCTS & CMMSC Seminar at the Hsinchu Unversity, Organized by H. HS Lu, Hsinchu, Taiwan
- Nov. 2010 Seminar at the University Bielefeld, Organized by G. Kauermann, Bielefeld, Germany
- Jun. 2010 Seminar at the National University of Kaohsiung, organized by R.-B. Chen, Kaohsiung, Taiwan
- Jun. 2010 Seminar at the Renmin University of China, organized by M. Tian, Beijing, China
- May 2010 "Mathematical Koloquium" at Carl von Ossietzky University of Oldenburg organized by T. Kneib, A. May, D. Pfeifer, Oldenburg, Germany
- Mar. 2010 "Quantitative Methods Seminar" at Universität St.Gallen organized by M. Fengler, St. Gallen, Switzerland
- Jul. 2009 Seminar at Hong Kong University of Science and Technology organized by Y.-K. Kwok, Hong Kong, China
- Feb. 2009 "Statistisch/ökonometrisches Seminar" at Christian-Albrechts-Universität zu Kiel organized by H. Herwartz, R. Liesenfeld and V. Golosnoy, Kiel, Germany
- Dec. 2008 "Quantitativ Ökonomisches Colloquium" at Freie Universität Berlin organized by U. Rendtel, Berlin, Germany
- Jul. 2008 Seminar "Finanz- und Versicherungsmathematik" of the LMU and TU organized by C. Czado, C. Klüppelberg and R. Zagst, Munich, Germany
- May 2007 WIAS Research Seminar "Mathematical Statistics" organized by W. K. Härdle and V. Spokoiny, Berlin, Germany

PRESS ABOUT ME - PRESSE ÜBER MICH

- Jun. 2010 "100 Studenten von denen wir noch hören werden", die ZEIT Campus, Nr. 3 Mai/Juni 2010
- Apr. 2009 Zahlen, bitte! Wie ein 24-jähriger Mathematiker aus der Ukraine der jüngste Professor Deutschlands wurde, **HANDELSBLATT**, **Karriere**, 30. April 2009, Nr. 83, http://www.handelsblatt.com/karriere/ostap-okhrin-einstein-junior;2259606
- Jan. 2009 *"Professor werden"*, **Deutsche Welle**, 24.01.2009, 23:30, http://www.dw-world.de/dw/article/0,,3867553,00.html
- Dez. 2008 "Deutschland jüngster Professor liebt die Mathematik", **SPIEGEL Online**, 08.12.2008, http://www.spiegel.de/unispiegel/jobundberuf/0,1518,594755,00.html
- Aug. 2008 "Wir sind Deutschlands jüngste Superhirne", das BILD, Dienstag, 19. August 2008, 194/34, http://www.bild.de/BILD/news/vermischtes/2008/08/19/jung-professoren/deutschlands-juengste-superhirne.html
- Okt. 2008 *Die Welt da draußen: "Ausreißer in der Statistik"*, **die ZEIT Campus**, Nr. 5 September/Oktober 2008, http://www.zeit.de/campus/2008/05/juengster-prof-deutschland
- Jul. 2008 "Who is Who an der Humboldt Universität?", **Humboldt-Zeitung**, Ausgabe 9-2007/2008, http://www.hu-berlin.de/pr/publikationen/humboldt/200807/aktuell/okhrin