

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	Hanna Livinska
Address(es)	46/2, Kniaziv Ostrozkych Str., ap. 19, 01015, Kyiv, Ukraine
Telephone(s)	+38(044)521-35-35
E-mail	hanna.livinska@knu.ua
Nationality	Ukraine
Date of birth	24/06/1972
Gender	Female

Desired employment / Occupational field

Mathematician, University Professor

Work experience

Dates	June 2019-till now
Occupation or position held	Associate Professor at Department of Applied Statistics, Faculty of Computer Science and Cybernetics, Taras Shevchenko National University of Kyiv
Dates	October 1997-June 2019
Occupation or position held	Assistant Professor at Department of Applied Statistics, Faculty of Computer Science and Cybernetics, Taras Shevchenko National University of Kyiv

Main activities and responsibilities Teaching courses (lectures and/or seminars):
 Theory of Probabilities;
 Mathematical Statistics;
 Machine Learning Algorithms in Classification Problems;
 Data Analysis;
 Mathematical Methods of Data Processing;
 Financial Mathematics;
 Spatial Data Analysis with R;
 Data Visualization with R;
 Time Series Analysis and Forecasting;
 Mathematical methods for analyzing complex systems;
 Contemporary problems, strategies and methods of systems analysis (for PhD students)
 Preparing scientific publications as well as tutorials for my courses
 Guidance in bachelors' and masters' works
 Supervisor for two PhD students
 Scientific work
 Participating in international conferences
 I am the Academic Director and the head of the project group for the development of the master's program "Social Data Analysis"

Research interests Probability Theory, Statistics, Data Science, Queueing Theory, Stochastic Processes

Name and address of employer Taras Shevchenko National University of Kyiv, 64, Volodymyrska str. 01601, Kyiv, Ukraine

Type of business or sector Educational institution

Education and training

Dates 1994-1997: Post-Graduate Study

Title of qualification awarded PhD in Physics and Mathematics (2014)

Principal subjects/occupational skills covered Thesis title (2014): "Multi-channel networks with variable rate of input flow in heavy traffic"
 Specialization: "Systems Analysis and Theory of Optimal Decisions"
 Supervisor – Prof., Dr. of Phys. and Math. Eugene Lebedev

Name and type of organisation providing education and training Taras Shevchenko National University of Kyiv, Kyiv, Ukraine

Dates 1989-1994

Title of qualification awarded Master Degree in Applied Mathematics

Name and type of organisation providing education and training Department of Applied Statistics, Faculty of Cybernetics, Taras Shevchenko University of Kyiv, Kyiv, Ukraine

Personal skills and competences

Mother tongue(s) **Ukrainian, Russian**

Other language(s)

English

Spanish

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
	C1		C1		B2		B2		B2
	B1		B1		B1		B1		B1

Social skills and competences – Mediating skills: working with students, conversation with other professors.
 – Team work: I have worked in various types of teams from research teams to sport team.
 – Intercultural skills: I am experienced at working in international conferences, research collaborating.

Organisational skills and competences – 1998-1999 – working as Deputy Dean at the Faculty of Cybernetics, Taras Shevchenko Kyiv State University,
 – organizing and running special sessions in International Conferences
 – I am the Academic Director and the head of the project group for the development of the master's program "Social Data Analysis "

Computer skills and competences	Competent with most Microsoft Office tools Competent with LaTeX, R
Artistic skills and competences	Dancing with ballroom dance ensemble while I was a student
Hobbies	Tourism, playing the drum set, mountain skiing, swimming, oil painting, ballroom dancing.
Driving licence	B, light vehicles
Additional information	Main publications for the last five years: 1) Lebedev E.A., Livinska H. Reducing of Service Process Dimension for a General-Type Multichannel Network in Heavy Traffic. // Communications in Computer and Information Science, vol 1391. (2021) Springer, Cham. https://doi.org/10.1007/978-3-030-72247-0_8, pp. 108-119. 2) Livinska, H., Lebedev, E., On asymptotic merging of nodes set for multichannel stochastic networks // Journal of Computational and Applied Mathematics, 2021, 393, 113535. 3) Eugene Lebedev and Hanna Livinska, Diffusion and Gaussian limits for multi-channel queueing networks. Chapter 7 in the book: " Queueing Theory. Advanced Trends", Vol. 1 – Series of books "Mathematics and Statistics", Sciences, ISTE & J. Wiley, London, 177-212, 2021. 4) Lebedev, E., Ponomarov, V., Livinska, H. (2022). On Explicit Formulas of Steady-State Probabilities for the $[M/M/c/c+m]$-Type Retrial Queue. // Stochastic Processes, Statistical Methods, and Engineering Mathematics . SPAS 2019. Springer Proceedings in Mathematics & Statistics, vol 408. Springer, Cham. https://doi.org/10.1007/978-3-031-17820-7_11, pp 211–222. 5) I. Makushenko, I. Usar, H. Livinska, Sharapov M. Optimal threshold strategies for retrial systems with queue, Journal of Computational and Applied Mathematics (J. Comput. Appl. Math.), 427 (2023), Article 115136. 6) H. Livinska, A. Pererva, Evaluation of the Efficiency of Intensive Care Units using queueing modelling: A Case Study in Kyiv Hospitals, Information Technology and Implementation (IT&I-2023), November 20-21, 2023, Kyiv, Ukraine, CEUR Workshop Proceedings, Vol-3624, pp. 276-290. 7) Hanna Livinska, Daria Skrypyk, José Luis GALÁN-GARCÍA: Comparative Study of Machine Learning Algorithms for Diabetes Detection Using Binary Data, "Bulletin of Taras Shevchenko National University of Kyiv. Physics and Mathematics", №1(78)/2024 -- pp. 119-127. 8) Igor Makushenko, Iryna Usar, Hanna Livinska, Control of the Input Flow with Periodic Rate for Multichannel Markov Networks // Computing in Science & Engineering, Volume 27, Issue 3, 2025, 8 p. 9) Igor Makushenko, Iryna Usar, Hanna Livinska, A hysteresis strategy for a single-channel system with a queue and repeated calls // Bulletin of Taras Shevchenko KNU. Phys.-math. series of Science, No. 2(81), 2025, pp. 174-181. 10) Hanna Livinska, Serhii Kostrytsia, Metaheuristic-Based Optimization of Monitoring System Architectures // Proceedings of the International Workshop on Computational Intelligence (IWSCI 2025) co-located with the IV International Scientific Symposium "Intelligent Solutions" (IntSol 2025), Kyiv–Uzhhorod, Ukraine, May 01–05, 2025, CEUR Workshop Proceedings, Vol-4035, 2025, pp. 142-151. Tutorials and monographs: 1) Mathematical statistics (with E.O. Lebedev, I.V. Rozora, M.M. Sharapov), Kyiv: Kyiv Univ. Publ., 2016 (in Ukrainian). 2) Multi-channel networks with variable rate of input flow in heavy traffic (with Ye.O. Lebedev), Kyiv: Kyiv Univ. Publ., 2018 (in Ukrainian). 3) Diffusion and Gaussian limits for multi-channel queueing networks (with E.O. Lebedev), Chapter 7 in the book: "Advanced Trends in Queueing Theory".P. 207-246. –ISTE & J. Wiley, London. 4) Diffusion et limites gaussiennes pour les réseaux de files d'attente multicanaux (with E.O. Lebedev), Chapitre 7 en Théorie des files d'attente 1, tendances avancées. ISTE Editions Ltd 2020, P. 207-246. 5) Collection of problems in probability theory and mathematical statistics (with Sharapov M.M., Rozora I.V., Ponomaryov V.D.), Electronic tutorial, Kyiv, TSNUK, 2025, 326 p.