Ihor Miroshnychenko

Associate Professor, Department of Mathematical Modeling and Statistics

Kyiv National Economic University

+38 097 639 18 06 | miroshnychenko.ihor@kneu.edu.ua

aranaur.rbind.io | aranaur | ihormiroshnychenko | 0000-0002-1307-7889

Education

Bachelor of Economic Cybernetics

Kyiv, Ukraine

Kyiv National Economic University — *2004-08*

- GPA: 4.1 / 5
- Qualification: Teacher of Economics

Master of Economic Cybernetics

Kyiv, Ukraine

Kyiv National Economic University — *2008-09*

- GPA: 4.3 / 5

Ph.D in Economics

Kyiv, Ukraine

Kyiv National Economic University — *2016*

- Theme: System of evaluation models of stateinvestment potential
- Speciality: Methematical Methods, Models and Information Technologies in Economics

Docent

Kyiv, Ukraine

Kyiv National Economic University — *2022*

- Academic status

Professional Experience

2021–	**Associate Professor**, Department of Mathematical Modeling and Statistics, IITE, KNEU
2019–	**Lecturer**, MBA, International Institute of Business (IIB)
2018–2021	**Associate Professor**, Department of Mathematical Modeling and Statistics, IITE, KNEU
2015–2018	**Senior teacher**, Department of Economic and Mathematical Modeling, FISiT, KNEU
2009–2015	**Assistant**, Department of Economic and Mathematical Modeling, FISiT, KNEU

Projects

Production optimization

PrJSC MHP — *2019-2020*

- Conducted production process analysis and identify critical issues and gaps for an established process center
- Identified influential indicators of production optimization and their relationship
- Build predictive models using various machine learning tools to predict product growth

Formation and approaches to forecasting the exchange rate

MinEconomy of Ukraine — *2019-2020*

- Mentoring a group of researchers, monitoring the timing and quality of implementation.
- Dive the interaction and partnership between the managers to ensure active cooperation in identifying as well as defining analytical needs
- Build predictive models with a variety of machine learning tools to predict currency rates.
- First place in the competition

Financial and economic justification of the legislative initiative

Committee of the VR — *2017*

- Developed a model of clustering of draft laws using SOM for scaling and forming clusters of similarity of projects
- Developed an information processing algorithm with the involvement of NLP and methods of machine and statistical learning
- Led training sessions on the econometrics and clustering algorithms for justification of the legislative initiative

Effective management of public finances

Financial and Economic Analysis Office in the VRU — *2016*

- Assessed and analyzed the needs of the office and the main counterparties
- Detailed training plan and basic analysis tools were developed
- Conducted a number of training events and practical application of the results skills

Teaching experience

Web analytics: PRO	2023	Web Promo Experts	Online Course
Time series with R	2023	dentsu	Corporate Training
R for business	2022	dentsu	Corporate Training
Analytics in business	2021	PrJSC MHP	Corporate Training

Skills

Technical skills

Coding Languages	Software	Data Science	Other
R – Python – SQL	RStudio – VS Code – PyCharm – Jupyter Notebook – DataSpell	Tidyverse – Pandas – Numpy – Matplotlib – Seaborn – Plotnine – Scikit-learn – Statsmodels – DuckDB	Git – Markdown – LaTex – Quarto – Mermaid – Graphviz

Additional education

Simulator SQL	karpov.courses
Associate Data Scientist	Data Camp
Python for Data Science	StartUp Academy (IT Generation project)
Data Scientist with Python	Data Camp
Fundamentals of statistics. Part 2	Stepik
Data analysis in R	Stepik
Fundamentals of Statistics	Stepik

Editorial board

2018–2019 **Editor's Assistant**, *Neuro-Fuzzy Modeling Techniques in Economics* (**Scopus** science 2019)

Languages

Languages	Level
Ukrainian	Bilingual proficiency
English	B2

Hobbies

Self-education · Guitar playing · Treveling · Photography · Gaming · Reading · Footbal

Selected Publications

1. Miroshnychenko, I., Kravchenko, T., & Drobyna, Y. (2021). Forecasting the main indicators of the market of alternative sources of electricity in developing countries (on the example of ukraine). *Neuro-Fuzzy Modeling Techniques in Economics*, *10*, 160–192.
2. Chuzhykov, V., Lukianenko, O., & Miroshnychenko, I. (2020). Forecasting of fish and seafood catch in the global economy. *Neuro-Fuzzy Modeling Techniques in Economics*, *9*, 45–68.
3. Matviychuk, A., Lukianenko, O., & Miroshnychenko, I. (2019). Neuro-fuzzy model of country's investment potential assessment. *Fuzzy Economic Review*, *24*(2), 65–68.
4. Kaminskyi, A., Miroshnychenko, I., & Pysanets, K. (2019). Risk and return for cryptocurrencies as alternative investment: Kohonen maps clustering. *Neuro-Fuzzy Modeling Techniques in Economics*, *8*, 175–193.