



# Ihor Miroshnychenko

ASSOCIATE PROFESSOR, DEPARTMENT OF TECHNOLOGY MANAGEMENT

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## Education

### Bachelor of Economic Cybernetics

KYIV NATIONAL ECONOMIC UNIVERSITY

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

Kyiv, Ukraine

2004-08

### Master of Economic Cybernetics

KYIV NATIONAL ECONOMIC UNIVERSITY

- GPA: 4.3 / 5

Kyiv, Ukraine

2008-09

### Ph.D in Economics

KYIV NATIONAL ECONOMIC UNIVERSITY

- Theme: System of evaluation models of state investment potential
- Speciality: Mathematical Methods, Models and Information Technologies in Economics

Kyiv, Ukraine

2016

### Docent

KYIV NATIONAL ECONOMIC UNIVERSITY

- Academic status

Kyiv, Ukraine

2022

## Professional Experience

- 2023– **Associate Professor**, Department of Technology Management, FIT, KNU
- 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

MIN ECONOMY 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  Traveling  Photography  Gaming  Reading  Football

## 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.