

## *Portfolio of a lecturer at Sarsen Amanzholov East Kazakhstan University*

### *Personal portfolio*



**Tukushova Arailym**

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### **Degrees and titles**

Academic (academic) degree: Master of Pedagogical Sciences

### **Education**

- Received in 2006(a) higher education at EKSU, majoring in Applied Mathematics and Computer Science.
- Received in 2008(a) master's degree in "EKSU named after S. Amanzholov", specialty "6N0602 - Computer Science".
- from 2021 to 2024, studied at the D. Serikbayev EKTU for a doctoral degree in Information Systems (by industry)

### **Positions**

Senior Lecturer at the Department of Computer Modeling and Information Technology, Higher School of IT Technologies and Natural Sciences.

### **Professional experience**

- Total length of service: 19 years
- Work experience in the EKSU: 19 years

Lecturing and practical work in computer science.

### **Courses taught**

1. Programming
2. Operating systems and service programs
3. Architecture of computer systems

### **The languages in which he teaches**

1. Russian
2. Kazakh

### **The main scientific direction**

Study of environmental monitoring methods and strategies and data analysis, Artificial intelligence methods and automated data processing systems, time series analysis and anomaly detection

### **Scientific interests**

Application of Data Science methods in ecology, development of intelligent monitoring systems, research of time series prediction models.

### **Research space**

Development of algorithms for detecting anomalies in monitoring data, integration of machine learning models with sensor systems, optimization and interpretability of atmospheric data analysis models, visualization of environmental data and development of user interfaces.

### **Scientific works**

Author of more than 11 scientific and methodological works, including:

Monographs: \_\_\_\_\_

Copyright certificate (patents): 1

Publications in journals recommended by CCSON: 1 publications

In journals in the «SCOPUS» database - publication.

Russian Science Citation Index:

Teaching aids: 2

Article in conference collections: 7

### **State awards**

Certificate of Honor of the Minister of Education and Science, 2021 \_\_\_\_\_.

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